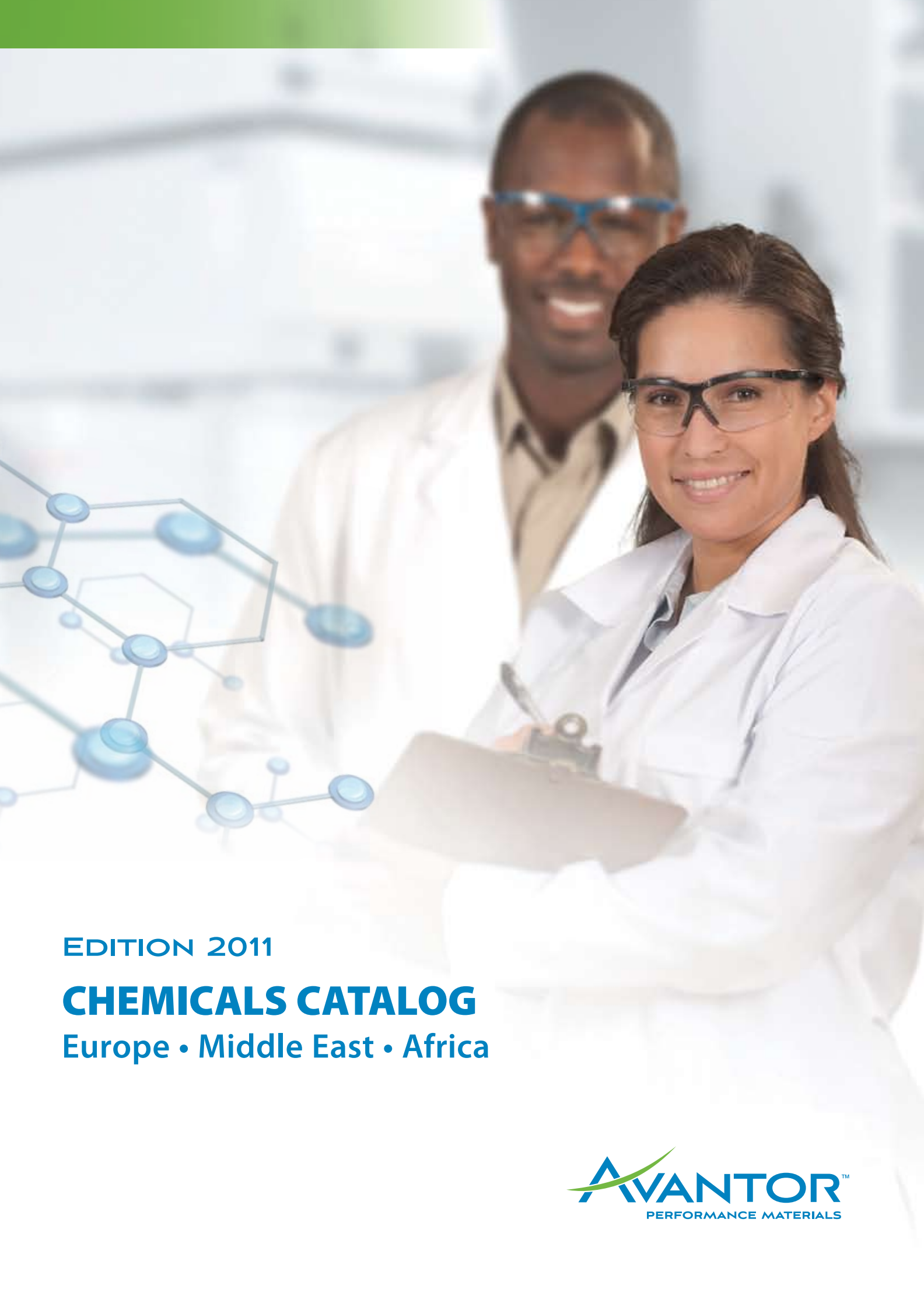




EDITION 2011

CHEMICALS CATALOG

Europe • Middle East • Africa

AVANTOR[™]
PERFORMANCE MATERIALS

Performance materials for tomorrow's world

Specialty Chemicals That Deliver on Performance.

Avantor Performance Materials offers research, academic and quality-control laboratories — industry worldwide — the high-purity chemicals they need to create the next generation of discoveries. Our products lead the way in quality and reproducibility.

We give our customers a marketplace advantage in a time of advanced instrumentation, of smaller, more precise samples and increased emphasis on near-perfect repeatability and consistency. Our specialized, application-optimized products are at work wherever purity is essential, from research and discovery to high-volume production.

**Giving you quality solutions
for quality results.**

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Avantor Performance Materials: A new name. A new generation of discovery.

Our name has changed. But our commitment to remain a leading global supplier of the performance materials you need has not. We will continue to offer the proven quality of J.T.Baker high-performance chemistries; you can still count on us to provide a single, unified source of high-quality, high-purity products. But now you have a bold new partner, a growing market leader who is passionate about helping you create the next generation of innovation — in every field from life sciences, pharmaceuticals and biotechnology to microelectronics and solar energy.



J.T.Baker Chemicals: Purity in Your Laboratory



J.T.Baker chemicals are known worldwide for excellence every step of the way — reliable results that help our customers achieve new heights in chemistry. Our products are application-optimized, to help you get the most from high-performance specialty instrumentation. Every day, J.T.Baker specialty chemicals help customers forge their own reputations for high quality and performance.

Quality Solutions for Quality Results

As our organization has evolved, one thing has never changed: our ability to build trust with our customers. Our consistent quality exceeds expectations. We offer application-optimized J.T.Baker chemicals. Our purity reaches the parts-per-trillion level. And users of sophisticated laboratory instrumentation and purification processes have come to count on the reproducible results they achieve with our products. Today, Avantor is helping bring the future capabilities of those processes within reach for customers around the world.

Certified Capabilities Across the World

Avantor excellence is recognized by ISO certifying bodies around the world. Every one of our facilities is ISO 9001 certified, and our Phillipsburg and Deventer production facilities are ISO 14001. We are also known for Six Sigma processes, improving efficiency in manufacturing and logistics processes. And our Lean Manufacturing practices conserve material, energy and time.

Avantor is also known in the pharmaceutical world for our global “GMP culture,” the result of our total quality approach and our recognized leadership in cGMP-produced chemicals for drug production. Where appropriate, statistic process controls (SPC) are implemented as an added value to support a foundation for customer support excellence.



Phillipsburg, NJ 9001:2008 & 14001:2004
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, Holland 9001:2008 & 14001:2004
Selangor, Malaysia 9001:2008



Approaches for a Greener World

Avantor has long been known for our ability to provide chemical packaging that responds to a complete spectrum of customer needs. And we have a complete range of safety-enhancing packaging options. But our greenest initiative is our proven, proprietary CYCLE-TAINER solvent delivery system, featuring high purity, sustainable packaging for high-purity solvents. CYCLE-TAINER packaging means returnable, reusable containers, with solvents refilled by Avantor to minimize exposure to the environment. CYCLE-TAINER packaging is also engineered, in both materials and concept, for preservation of solvent purity as well as maximum efficiency. In addition, our superior global supply chain ensures refill-on-demand capabilities. For more information on the CYCLE-TAINER Solvent Delivery System, see pages 87-89.





A full spectrum of chemistries to help technology evolve — in a world of emerging applications.

Our commitment to excellence in performance materials reaches far beyond the laboratory. Environmental initiatives the world over count on the purity and consistency of our products. Our chemistries are used by countless healthcare providers, academic researchers and food producers in a wide range of cutting-edge applications. Because for every product, in every application, the goal is the same: unsurpassed quality.



(Bio)Pharmaceutical

For our pharmaceutical and biotechnology customers, our broad line of J.T.Baker analytical reagents and chemistries more than meets industry standards or regulations. We aim to exceed your expectations, with the kind of purity, consistency and performance that allows groundbreaking advances in discovery, development and manufacturing. So you can get the most from today's most productive technology—and tomorrow's.



Environmental

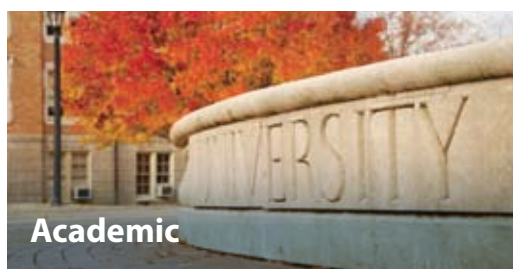


Around the world, Avantor's specialty chemical products are enabling test results that are accurate, reliable and meet all international standards. We help meet the challenge of detecting pollutants and impurities. And we help respond to emerging challenges with forward-looking innovations like J.T.Baker ULTREX II acids, with parts-per-trillion sensitivity that takes environmental analysis to another level.



Healthcare

In laboratories, clinics, hospitals and physician offices, Avantor reagents and other biochemical products are top performers in immunoassay, microimmunoassay, spectrophotometry, electrophoresis and other clinical diagnostic procedures. Our reagents are created with today's clinical needs in mind—smaller sampling sizes (as little as 10 μ L), greater throughput demands and the continual development of new assays for infectious diseases, metabolic markers, cardiology and more.



Academic

Academic research facilities trust Avantor for consistency, purity and cost-effective performance that yields predictable, repeatable results. Our high-purity solvents and reagents have a proven track record of supporting pivotal research projects conducted by elite doctoral-level researchers in academic and nonprofit settings. Through both products and packaging, Avantor continues a proud reputation for contributions to cost savings, reliability and laboratory safety in academic research and training facilities.



Industrial

Processes that were only a dream just a short time ago are now basic expectations in the industrial chemical world: nanoscale-level characterization, nanometer precision for integrated circuits, resistance to extreme temperatures and unprecedented levels of solar cell efficiency. Avantor meets all these needs and more, helping industrial producers make emerging technologies a reality.



Food and Beverage

As global regulatory requirements become stricter and more complex, Avantor helps food and beverage customers ensure compliance while meeting tight deadlines and maintaining high throughput. That includes providing consistently high-quality chemical testing products to prevent time-consuming and expensive recalls and reprocessing. We can also help customers maximize efficiency, reduce process variability and increase automation while cutting costs.



Technical Support for a World of Challenges

What's ASK Avantor? That's an excellent question—and an important one. ASK Avantor is a rapid, convenient, online portal for technical support and answers to questions. It even has a Live Chat feature that lets you talk online with our customer support or technical support representatives. ASK Avantor is another facet of our technical support philosophy: partnering with customers and contributing to scientific advancement.

Focus on a Safe Future.

Products sold by Avantor Performance Materials are synonymous with high quality and consistency, achieved through adherence to high standards of safety in production and processing. We continue to be committed to safeguarding the health and safety of the people who use Avantor products while acting in an environmentally responsible way. International and local standards are the basis for our safety systems, and we comply with all applicable laws.

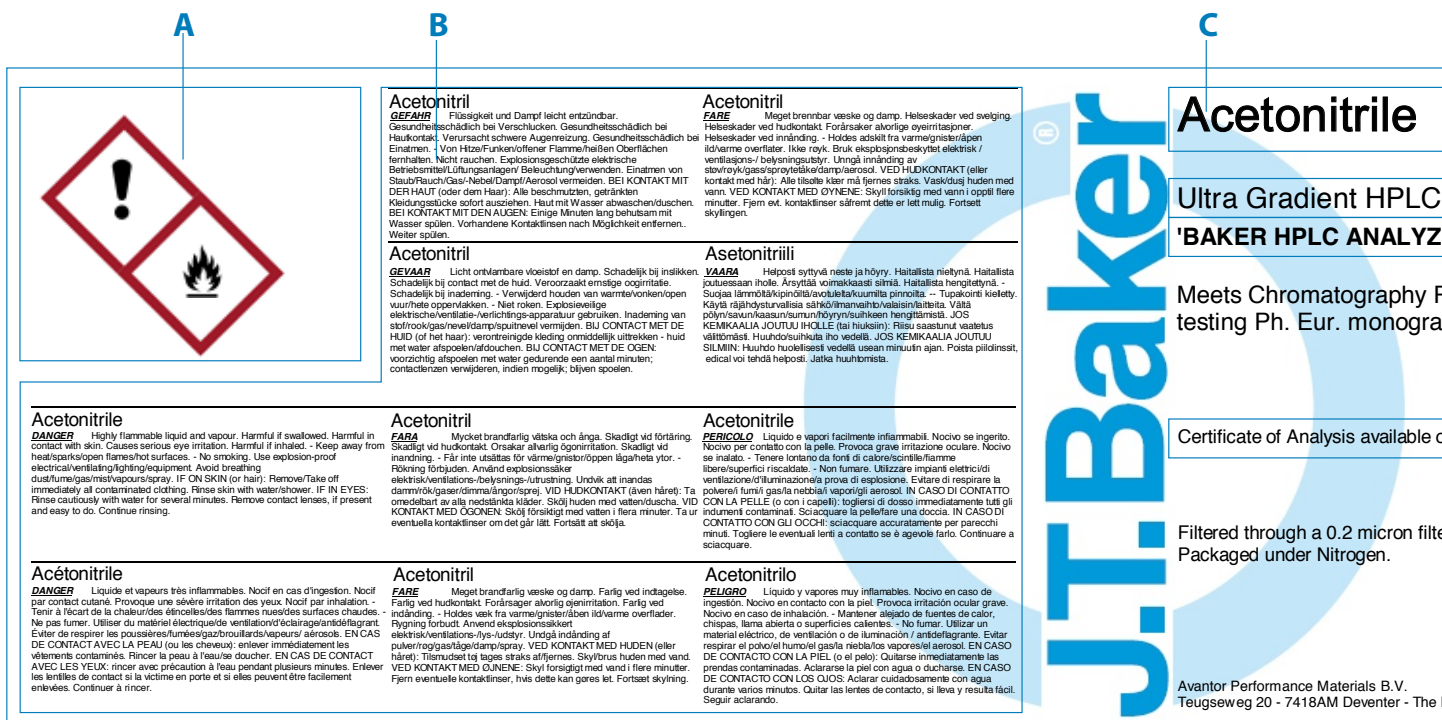
Globally Harmonized System (GHS) of Classification and Labelling of Chemicals

The Globally Harmonized System (GHS) of Classification and Labelling of Chemicals is a worldwide initiative to promote standard criteria for classifying chemicals according to their health, physical and environmental hazards. This European regulation is known as the Regulation of Classification, Labelling and Packaging (CLP) of substances and mixtures.

The primary goal of GHS is better protection of human health and the environment by providing chemical users and handlers with enhanced and consistent information on chemical hazards, as well as the free movement of chemical substances, mixtures and specific articles. Enhanced competitiveness and innovation is also an objective.

European Union members committed to put EU-GHS into force by January 2009. The key milestones established were December 1, 2010, to implement EU-GHS for all substances, and June 1, 2015, for all mixtures. Current directives, the EU Dangerous Substances Directive and the Dangerous Preparations Directive will be repealed effective June 1, 2015.

Under the new EU-GHS regulation, some of the most important changes compared with



the current directives are: Classification, Labelling and MSDS documents.

Classification

EU-GHS classification is based on the type and severity of the hazards of a particular substance or mixture, e.g., its potential to cause harm to human beings or the environment. All of our substances and mixtures are evaluated for labels and classification following the EU-GHS. This classification methodology differs from the previous one.

Labelling

Changes to EU-GHS labelling include the following:

Hazard Pictograms: The black EU symbols on an orange background have been replaced by nine new hazard pictograms symbolizing Health, Physical and Environmental hazard information.

Key Signal Word: Gives information about the relative hazard level of a substance or mixture and alerts the reader to a potential hazard: Danger or Warning.

Statements: The current Risk (R) and Safety (S) statements are replaced by Hazard (H) & Precautionary (P) statements.

Material Safety Data Sheets (MSDS) Documents

Although MSDS documents are regulated by REACH and not by EU-GHS, the MSDSs will change. EU-GHS has documented the minimum information which should be included, where applicable and available, under each section.

D	E	F	G	9017	O
H	2.5 l		I	Lot: 0123456789	
J	Use Before: 2010-10		K	CH₃CN	
			L	M: 41.05 g/mol	
			For Laboratory, Research or Manufacturing use.		
			M	UN 1648	
				Cas: 75-05-8	
			Country of Origin: United States		
			N	JTB RS12345 0001 V 20.00	

Reagent Specifications for phs.

on request.

or.

Netherlands tel: + 31-570-687500

(01)08718167053884(10)0123456789

Registration, Evaluation, Authorisation and Registration of Chemicals (REACH)

REACH is the new European Union (EU) chemicals legislation dealing with the Registration, Evaluation, Authorisation and Registration of Chemicals, and covers chemical substances in preparations or in articles intended to be released. The regulation replaces numerous EU laws and is complementary to other environmental and safety legislation.

The objectives of REACH are to ensure a high level of protection from exposure to chemicals in order to safeguard human health and the environment, to provide risk management and to stimulate innovation and competitiveness within the EU chemical industry.

With this new legislation, all substances manufactured or imported in the EU in quantities greater than 1 EU tonne per year are subject to registration. If a substance is not registered under REACH, it cannot be manufactured, imported or supplied to the EU market in quantities of 1 tonne or more per year. Substances without safety data cannot be provided to the EU market.

For substances in quantities ≥ 10 tonnes per year, manufacturers/importers are obliged to complete a Chemical Safety Report (CSR), taking into consideration the different uses of a substance.

Label explanation:

A Hazard Pictograms	H Pack Size
B Hazard and Precautionary Statements	I Lot Number for Traceability Purposes
C Product Name	J Use Before Date
D Application	K Chemical Formula
E Quality Definition	L Molecular Mass
F Certificate of Analysis	M UN and CAS Number
G Product Number	N Production Batch
	O Barcode (GS1 EAN128)

Registration

The following characteristics of substances that are manufactured or imported into the EU have been registered at the European Chemicals Agency (ECHA) before December 1, 2010:

- Substances that are carcinogenic, mutagenic or reprotoxic (CMR) in quantities of ≥ 1 tonne per year
- Substances ≥ 100 tonnes per year, which are highly toxic for aquatic organisms and can cause long-term damage in water (R50/53)
- All substances ≥ 1000 tonnes per year

Substances between 100–1000 tonnes per year need to be registered before May 31, 2013, and substances between 1–100 tonnes per year have a registration deadline of May 31, 2018. Avantor Performance Materials has pre-registered all relevant phase-in and non-phase-in substances between June and December 2008, in order to take advantage of the transitional periods for registration until 2018, at the latest.

The ECHA has published a list of pre-registered substances. The MSDS of each substance will be adjusted to include new data on safe usage of the substance and will be named extended Safety Data Sheet (eSDS).

Supply Chain Communication

The REACH legislation defines the obligations and requires collaboration across the complete supply chain, therefore, the communication within the supply chain is very important. In order

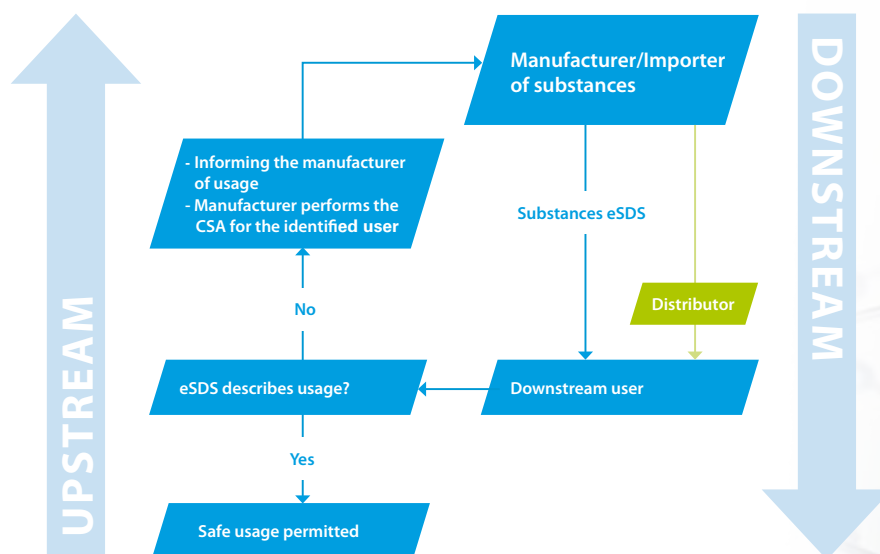
to be able to continue usage of the chemical in the application, customers are required to give more information on usage of the chemical purchased. It is very important that the application of the product becomes a part of the extended Safety Data Sheet. Having the eSDS available is an obligation after the registration deadline of the chemical. After the registration deadline, products can only be used safely if the application is captured in the eSDS.

ChemSIX—Web-based Information Exchange Portal



To make sure all the important uses of our downstream users are included in the safety assessment, Avantor needs to align the knowledge on Use & Exposure with its customers. Avantor records, manages and archives all relevant information for possible external investigation to ensure customers' (distributors and/or end-users) usage. To manage this complex collaboration, Avantor uses ChemSIX, a web-based portal for optimization of REACH communication. Through this portal, Avantor communicates specifically with customers about the products in a password protected workspace.

For access to the ChemSix portal, please contact JTBaker_REACH_USERS@avantormaterials.com



General Information

How to Use This Catalog

The catalog is organized into five main sections. The table below provides a brief description of the information contained in each section and how to quickly navigate through the catalog.

1	Section	Description
	Introduction	The color section provides an introduction to the J.T.Baker brand product lines and is a good place to start to get a broad understanding of the types of products and services offered by Avantor Performance Materials, Inc.
2	General Information	The General information section provides the resources available via Avantor website, Definitions of Purity, MSDS and Quality information, and a reference for doing business with Avantor.
3	Analytical Methods Products by Application	Product information for specific analytical methods. Product information for specific applications and markets.
4	Alphabetical Section J.T.Baker Brand	The alphabetical sections are the first places to look for a specific chemical by name. Each product listing provides detailed information, including product grade, description, product number, container type, package size, specifications, CAS number, and much more.
5	Packaging Appendix Indices Reference Information	Review the common packaging options available for our major product lines. Complete with photos and dimensions for our high performance packages. Search by topic, CAS number or product number and quickly find the product information you are looking for. A periodic table of the elements and conversion tables for quick and easy reference.

General Information

Resources Available via the Avantor Performance Materials Web Site (www.avantormaterials.com)

The Avantor Performance Materials web site offers a wealth of information about our products. Below is a sample of the information available on the site.

Section	Description
Product Catalog	Our on-line product information provides the latest product sizes, prices, specifications, regulatory information, and more.
Material Safety Data Sheets (MSDS)	The Material Safety Data Sheets (MSDS) section allows customers to search our MSDS database by Product Number, Product Name, Formula or CAS number. Our data is updated frequently.
Certificates of Analysis	Customers can retrieve a Certificate of Analysis for a specific lot number or for a random lot of a product. Our data is updated frequently.
Specifications	Customers can retrieve current product specifications for any product in the catalog.
Technical Library	The Technical Library section of the Avantor web site provides a large body of information about products and some of their end applications.
News and Events	The News and Events section of the web site provides the latest news and information about the products, including press releases and tradeshow participation.
CHEMCHOICE	The CHEMCHOICE Chemical Cross Reference application delivers a quick and easy way for our customers to compare related products. By simply entering the product name or number of a competitive product, CHEMCHOICE will automatically reference the product and display the available Avantor products that match.
Contact Us	You can place your order for Avantor products or services in two ways: contact any authorized Avantor Distributor; or call our Customer Service Department at 0031 570 687500 or e-mail avantor.emea@avantormaterials.com. 
Distributors	The "Find a Distributor" section allows customers to search for a distributor in a particular location.

Definitions of Purity

J.T.Baker Brand

BAKER—A grade of chemicals for laboratory use, for organic synthesis, and for routine research usually controlled by physical criteria and often by assay (by GC).

BakerDRY—A group of low-water solvents specifically manufactured and tested for use in organic, organometallic, and oligonucleotide synthesis. Most BakerDRY solvents meet ACS specifications and are ready to use, eliminating the need for any further purification. These solvents are available in 100 ml and 1 liter septum-seal bottles and the CYCLE-TAINER solvent delivery system.

BAKER ANALYZED Reagent—A grade of high-quality chemicals for laboratory and specialized industrial use. Analytical methods used for these determinations are based on standard test procedures described in technical publications. Frequently, improvements developed by our scientists and engineers are employed to achieve a higher degree of reliability.

The quality of many BAKER ANALYZED reagents meets or exceeds the requirements set forth by the American Chemical Society (ACS). These products are designated BAKER ANALYZED ACS reagents.

When J.T.Baker product specifications surpass those listed in the ACS, either in tighter purity levels or additional parameters, the statement “exceeds ACS specifications” will be found in the product listings in the catalog and on our Certificates. These tighter limits and additional specifications provide you with improved consistency and characterization of your reagents.

BAKER ANALYZED HPLC Reagent—A group of high-purity solvents, buffer salts, and mobile phase modifiers for use in analytical and preparative separations. BAKER ANALYZED HPLC reagents are optimized for all of your liquid chromatography applications, including high-performance liquid chromatography, gel-permeation chromatography, and UV-spectrophotometric analysis. These highly characterized reagents are manufactured and tested to assure interference-free separations and have unmatched lot-to-lot consistency. Recalibration or instrument adjustments due to solvent lot changes are minimized. Solvents are controlled for high assay and low UV absorption, fluorescence, residue, and water.

BAKER ANALYZED Biochemical—High quality biochemicals for research use.

BAKER ANALYZED LC/MS—A group of solvents and solvent blends specifically developed to provide the lowest interferences in the industry. Products are manufactured under strict controls to ensure lot-to-lot consistency.

BAKER BIO-ANALYZED Reagent—A group of high-purity solvents and reagents specially purified and carefully tested to assure suitability and reliability in nucleic acid or peptide synthesis. Carefully controlled low water levels and unsurpassed lot-to-lot consistency deliver better synthesis yields and coupling efficiencies.

BAKER INSTRA-ANALYZED—Acids and standards that are purified and characterized for use in trace-element analysis. You receive an Actual Lot Analysis with every BAKER INSTRA-ANALYZED reagent as your guarantee of purity and consistency and as a reference for your analytical blank values.

Biotech Reagent—A grade of product which is produced under GMP guidelines, but for which there is no USP/NF compendia for the product.

FCC—FCC grade products are intended for use in food processing operations and meet requirements as described in the current edition of the Food Chemical Codex. These products are prepared to be of such purity as to reduce the levels of harmful or objectionable contaminants so as to not represent a hazard to the end user.

Multi-Compendial—Manufactured under Good Manufacturing Practices (GMPs), these chemicals conform to the requirements of the United States Pharmacopoeia (USP) or the National Formulary (NF). These products are subject to regulations issued by the FDA. All meet the requirements necessary for their use in pharmaceutical processing and prescription compounding (USP and NF). Additionally, these chemicals meet the specifications of the PhEur (EP, European Pharmacopoeia), BP (British Pharmacopoeia), and JP (Japanese Pharmacopoeia), where appropriate.

General Information

PHOTREX—High-purity solvents characterized for use in UV, visible, and IR spectrophotometry. The label includes the Actual Lot Analysis for UV absorbance at selected wavelengths.

ULTRA LC/MS—High purity solvents designed for the most demanding ultra-high pressure liquid chromatography (UHPLC) and mass spectrometry research and analytical testing applications. These products are filtered through 0.1 micron filters to remove troublesome particles. Low trace metal levels are sustained over time; providing low ion suppression enabling maximum sensitivity and improved analyte identification. Advanced suitability testing is performed on each lot with both electrospray positive and negative modes.

ULTRA RESI-ANALYZED Reagent—A group of ultra-high purity solvents and salts developed for organic residue extraction/concentration procedures. These solvents are fully characterized and lot controlled by ECD, FID, or other method-specific detectors to deliver the highest level of purity and lot-to-lot consistency. Advanced stabilizer systems are incorporated in ULTRA RESI-ANALYZED solvents to ensure solvent stability and superior performance that is guaranteed through the expiration period stated on the label. ULTRA RESI-ANALYZED reagents are suitable for exacting EPA sample cleanup protocols.

ULTREX/ULTREX II—Acids and salts of extremely high purity with low levels of metallic impurities, especially for use in ppt trace element analysis. These products are manufactured using state-of-the-art processing and are packaged under clean-room conditions. Post-packaging

characterization is performed using advanced analytical instrumental methods. A Certificate of Actual Lot Analysis is provided with every bottle.

ULTRAPURE BIOREAGENT—A line of high-purity reagents tested for use in biotechnology applications, such as electrophoresis and liquid chromatography. Where applicable, tests include DNase, RNase, Protease, heavy metals, and insoluble matter.

USP, NF—Manufactured under GMPs, these chemicals conform to the requirements of the United States Pharmacopoeia (USP) and the National Formulary (NF). Subject to regulations issued by the FDA, USP, and NF, products meet the requirements necessary for their use in pharmaceutical processing and prescription compounding.

Guide to Product Listings

MSDS Information

Material Safety Data Sheets

Available Round-the-Clock

We want you to have the safety information you need, when you need it. For this reason, Avantor Performance Materials gives you many ways to access our Material Safety Data Sheets 24/7.

Search our Internet catalog or MSDS page for the product you want and Material Safety Data Sheets are only a mouse click away. Visit www.avantormaterials.com.

For more information about any of these services, please call our Customer Service Department at 0031 570 687500.

Quality Information

Product Stability

Based upon the results of stability studies, research data, or technical product information, Use Before or Retest dates for Avantor products are established for those chemicals with known limited stability. In the absence of a Use Before or Retest date, our products can generally be considered stable when they are stored under the following conditions:

- Original, unopened container, and
- In accordance with specific storage directions or limitations provided on the label, or

- If no specific storage directions are provided on the label, the product must be protected from moisture, freezing, and excessive heat.

Once the container is opened, shelf life depends on how the chemical is stored and handled within your facility. Product performance capability is best determined by re-testing the chemical against the original Quality Control tests and specifications provided on the Certificate of Analysis.

The chart below depicts the key elements of the GMP and ISO 9001 requirements that are included in the Avantor quality management system.

Overview of Avantor Performance Materials Quality Systems

Quality Systems and Controls	Required for GMP Manufacturing	Required for ISO certification
Customer Notification of Change System: Notification of changes from established production and process-control procedures that can affect the quality of the product	•	•
Product Design: Process for managing the design and development of products.		•
Purchasing and Supplier Quality Systems: Verification of product conformance to purchase requirements upon receipt. Documented process for supplier approval and on-going evaluation.	•	•
Buildings and Equipment: Maintain infrastructure to achieve conformity to product requirements.	•	•
Raw Materials, Processes, and Production Controls: Designed to meet product requirements. Documented and approved. Production carried out under controlled conditions with supporting records.	•	•
Packaging Processes and Packages: Use of proper materials and labels to prevent contamination, mix-ups, and errors.	•	•
Product Handling, Storage, and Distribution: Product handled to prevent degradation, contamination, and cross contamination.	•	•
Product Traceability: Traceability of product history from raw material to customer using product number/lot number combination.	•	•
Returned Product: Identified, quarantined, and segregated pending investigation and final disposition.	•	
Quality Management Systems: System in place to manage quality to consistently provide product that meets customer and applicable regulatory requirements.	•	•
Documentation and Records: All processes related to product manufacturing and testing are documented and approved to ensure the effective planning, operation, and control of the processes. Records are maintained to provide evidence of conformity to requirements.	•	•
Laboratory and Inspection: Material is inspected/tested at appropriate stages of the process to verify conformance to requirements, including testing of the final product prior to release. Testing conducted according to documented and approved procedures and specifications.	•	•
Organization and Personnel Training: Quality Assurance unit is independent of production. Personnel have necessary competence to perform work affecting product quality. Training conducted to ensure competence and to meet regulatory requirements.	•	•
Corrective and Preventative Actions: Nonconformances and potential nonconformances are investigated with the intent to eliminate the cause and prevent recurrence. Investigations are documented and approved by Quality Assurance.	•	•
Internal Audits: Conducted at regular intervals to verify compliance with GMP and ISO 9001 requirements. Results documented and shared with management.	•	•
Management Review: Top management reviews the quality management system at planned intervals to ensure its continuing suitability, adequacy, and effectiveness.		•
Validation (GMP products): Planned tests are conducted on processes that are critical to product quality in order to verify the capability to routinely produce products that meet the intended result.	•	
Stability (GMP products): Testing of product in the saleable container at planned intervals to determine or verify shelf life.	•	
Continued Improvement: Continually improve the effectiveness of the quality management system.		•

Avantor Quality Systems are more comprehensive than GMP or ISO requirements alone. Rigorous control of our processes provides better control of your processes.

General Information

Doing Business with Avantor Performance Materials

Where to Order

You can place your order two ways—direct by calling our Customer Service Department at 0031 570 687500 or with any of our authorized distributors. Our network of authorized distributors is backed by our global distribution centers. To find a distributor in your area, access our web site at www.avantormaterials.com.

Inquiries

MSDSs and Certificates of Analysis can be accessed 24 hours a day, 365 days a year via the internet. Our Customer Service Department is available to serve.



General conditions Avantor Performance Materials B.V.¹
Deventer, The Netherlands (EU),
October 2010

Article 1**General**

In these general conditions, the following terms are understood to have the following meanings:

Agreement:

Every agreement entered into between Avantor Performance Materials and Customer, all amendments and/or supplements thereto, and all (legal) acts to prepare to and to carry out an Agreement;

Customer:

a party who places Orders with Avantor Performance Materials, buys the Products of Avantor Performance Materials and/or concludes an Agreement with Avantor Performance Materials;

Avantor Performance Materials:

Avantor Performance Materials B.V., a private company with limited liability incorporated under the laws of The Netherlands, having its registered office and principal place of business in Deventer;

Offer:

an offer or tender of Avantor Performance Materials, including but not limited to delivery, quality-, and payment details and/or specifications inserted therein, whether oral or in writing, being an invitation to Customer to place an Order;

Order:

Every order of Customer, whether oral or in writing;

Order Acknowledgment:

Acceptance of an Order by Avantor Performance Materials, including but not limited to delivery-, quality-, and payment details and/or specifications inserted therein, including in default of a specific Order Acknowledgement any invoice following the (actual) execution of an Order and so replacing such Order Acknowledgement;

Products:

All products manufactured, marketed and/or distributed by Avantor Performance Materials that are subject to an Agreement.

Article 2**Applicability**

- 2.1 These general conditions are applicable to all Agreements and are also applicable to all Offers, Orders and Order Acknowledgements, however named. References made in an Agreement, Offer and/or Order Acknowledgement that are an apparent mistake, do not bind Avantor Performance Materials and do not give Customer any action against Avantor Performance Materials.
- 2.2 The applicability of any other general terms and conditions used by Customer or referred to by Customer in any way is hereby explicitly excluded and declared not to be applicable.
- 2.3 Apart from provisions of mandatory (rules of) law, the contents of an Agreement shall exclusively be formed by the contents of the Order Acknowledgement and/or invoice following an Order and these general conditions. Stipulations varying from these general conditions must be expressly agreed upon in writing in the Agreement.
- 2.4 If any provision of these general conditions is held to be illegal, void or unenforceable by a court of competent jurisdiction, the other provisions of these general conditions shall remain in full force and effect and the provision(s) that is/are held to be illegal, void or unenforceable shall be deemed to have been replaced by a provision which - as closely as possible - meets the intention of Avantor Performance Materials when inserting the original provision.

¹ A translation of these general conditions is available upon request. In the event of any dispute as to the interpretation of (any of the conditions of) these general conditions, this English version shall prevail.

Article 3

Offers, Orders, Order

Acknowledgements, Agreements

- 3.1 All Offers shall be valid during thirty (30) days, unless a longer or shorter term is stipulated in the Offer and are always made without any obligation and are subject to the approval of Avantor Performance Materials, unless explicitly stated otherwise. Offers are therefore not more than an invitation to Customer to place an Order.
- 3.2 In case Customer places an Order, regardless whether or not Avantor Performance Materials made a prior Offer, an Agreement will only be realized after Avantor Performance Materials has confirmed this Order, by means of an Order Acknowledgement, or as soon as Avantor Performance Materials will actually carry out the Order. As from that moment, Customer and Avantor Performance Materials shall be deemed to have entered into an Agreement, unless Customer immediately declares in writing that he does not accept the contents of the Order Acknowledgement.
- 3.3 Modifications and/or supplements of an Order Acknowledged and/or an Agreement can only be made by an instrument in writing duly signed by Avantor Performance Materials and Customer.

Article 4

Establishment Weight and Quantity

- 4.1 Measurements and weighting as mentioned by Avantor Performance Materials on the submitted measurement and weight certificate shall be decisive for the contents of the Agreement and therefore subsequently decisive for invoicing and payment.
- 4.2 With respect to the Products delivered by Avantor Performance Materials, in terms of measurement and/or weight a five (5) percent tolerance (upwards or downwards) shall be applied. This means that Customer shall not have

any right of reclamation with respect to measurement and/or weight of the Products or other rights in case of deviations within the aforesaid limit of five (5) percent.

Article 5

Delivery and (transfer of) risk

- 5.1 Without prejudice to Article 7 hereunder, the delivery ('aflevering') of the Products shall be 'FCA', as defined in the Incoterms 2010 as drawn up by the International Chamber of Commerce as in force at the time of the conclusion of the Agreement, unless another delivery clause is included in the Agreement. In case another delivery clause is agreed upon in the Agreement, the agreed delivery clause shall, in the absence of rules included in the INCOTERMS, with regard to its interpretation, be interpreted in accordance with the general accepted terms in trade in The Netherlands.
- 5.2 The delivery period mentioned in the Order Acknowledgement or otherwise indicated by Avantor Performance Materials, shall start from the date of the Order Acknowledgement. This delivery period is only indicative and shall not be considered as a deadline, unless expressly agreed otherwise in writing. In case Avantor Performance Materials does not deliver at the deadline of the indicative delivery period, Customer has the possibility to give notice of default ('ingebrekestelling') to Avantor Performance Materials. Customer has neither the right to dissolve or to terminate the Agreement, unless, without prejudice to article 11 of these general conditions, Avantor Performance Materials has exceeded the period of delivery after a notice of default of Customer to such extent, that it can not reasonably be expected that Customer shall maintain the Agreement, without Avantor Performance Materials being obliged to pay damages. Avantor Performance Materials shall inform

Customer as soon as possible, in case it becomes apparent that Avantor Performance Materials shall exceed the indicative delivery period.

- 5.3 In case Customer does not take possession of the Products by the time the Products are ready for delivery including but not limited to forwarding and/or shipment to Customer and Avantor Performance Materials has confirmed this to Customer, the Products shall be deemed to be delivered and as from that moment the risk with regard to the Products passes to Customer. Avantor Performance Materials shall continue to hold the uncollected Products available for Customer and Avantor Performance Materials shall store these Products at the expense and risk of Customer. Avantor Performance Materials may always exercise its authority to sell the Products, as referred to in Article 90 of Book 6 of the Dutch Civil Code ('Burgerlijk Wetboek').
- 5.4 As soon as the Products are ready for delivery including but not limited to forwarding and/or shipment to Customer and Customer is informed thereof, or on the date on which the Agreement is terminated or dissolved pursuant to these conditions, the risk for all damage to be sustained by or on account of the Products shall be transferred to Customer, unless expressly agreed otherwise.
- 5.5 In case Avantor Performance Materials organizes or arranges shipment of the Products to the Customer, Avantor Performance Materials shall do so on behalf of the Customer and the Customer shall solely be responsible and liable for such shipment. Customer indemnifies and holds Avantor Performance Materials harmless for all consequences of such shipment. Regardless of the foregoing, the previous paragraphs of this article shall at all times apply as regards the delivery of the Products.

General Information

Article 6

Transport and Packaging

- 6.1 In case means of transport and/or packaging is given on loan by Avantor Performance Materials to Customer, the packaging conditions of the Association of Dutch Chemical Industry and the Federation of Traders in Chemical Products shall apply.
- 6.2 Loading or filling of means of transport and/or packaging made available by Customer shall be effected at Customer's risk, regardless whether such loading or filling and/or (other) means of transport or packaging were subject of advice by or on behalf of Avantor Performance Materials, unless gross negligence or willful intention of Avantor Performance Materials.
- 6.3 If in the opinion of Avantor Performance Materials the means of transport and/or the packaging do not meet the requirements imposed thereon for security and/or safety reasons, Avantor Performance Materials shall be authorized to refuse to load or fill such means of transport and/or packaging. In that case Avantor Performance Materials shall not be liable for whatever consequences, especially not for damage ensuing from delay. Article 5 Paragraph 3 shall be applicable mutatis mutandis.

Article 7

Retention of Title

- 7.1 Avantor Performance Materials shall remain the owner of all Products sold to Customer, and the legal title of these Products shall as a result be retained, as long as Customer has not duly and adequately fulfilled all obligations resulting or arising from the Agreement (including but not limited to full payment). Delivery as referred to in article 5 above shall therefore only imply that Customer shall become the detentor ('houder') of the Products. Legal transfer of title ('juridische levering') shall be effected by and after full payment is made and all other

obligations resulting or arising from the Agreement have been adequately and duly fulfilled. The foregoing also applies in case of partial deliveries.

- 7.2 Without explicit and written permission of Avantor Performance Materials, Customer shall not be authorised to give third parties the use of the Products, to rent or pledge these, to transfer the title to the Products or to alienate or encumber the Products in any other way, until the ownership shall be transferred to Customer, even if that is part of the usual performance of his business or even if that is the usual destination of the Products. In case Customer contravenes these provisions, Customer shall be obliged to assign his claims against third parties relating to this alienation and/or encumbering of the Products to Avantor Performance Materials up to the outstanding claims of Avantor Performance Materials.
- 7.3 If Avantor Performance Materials is unable to exercise its retention of title to the Products, as a result of the fact that Customer processes, forms or mixes delivered Products or has the same products processed, formed or mixed into (new) products, Customer shall have to act in accordance with the instructions of Avantor Performance Materials - as long as Customer has not fulfilled all obligations arising and/or relating to the Agreement - and shall act as an agent of Avantor Performance Materials under the obligation, insofar as necessary, to transfer all its rights to Avantor Performance Materials, with respect to the (new formed) products, without prejudice to all (other) rights of Avantor Performance Materials.
- 7.4 As long as Customer has not fulfilled all obligations arising and/or relating to the Agreement and until the ownership of the Products shall be transferred to Customer and/or Avantor Performance Materials has reasonable grounds to fear that the Customer will come in default, Avantor Performance

Materials has the right to immediately claim, respectively reclaim the (title to) the Products delivered at any moment. Customer hereby grants Avantor Performance Materials its irrevocable and unconditional consent to enter its premises for this purpose. On first demand, Customer shall be obliged to return the Products immediately to Avantor Performance Materials, carriage paid, without any court intervention, summons or notice of default being required. In that event the Agreement shall not be automatically dissolved as a consequence thereof, such without prejudice to the other rights of Avantor Performance Materials with this respect. If Avantor Performance Materials dissolves the Agreement after having taken back the Products, the amounts paid by Customer for the execution of his obligations shall be paid back to Customer, taking into account all claims of Avantor Performance Materials against Customer.

- 7.5 As long as Customer is detentor and not the owner of the Products and has not the title to the Products, Customer is obliged to insure the Products properly, in any case against risks of theft, damage and loss.

Article 8

Prices

- 8.1 All quotations and prices, whether stated in an Offer, Order Acknowledgement, invoice or otherwise, shall be 'ex works' as defined in the Inco Terms referred to in Article 5 of these general conditions, unless agreed upon otherwise between Avantor Performance Materials and Customer.
- 8.2 All prices are inclusive of interior packaging and cartons, but exclusive of special exterior packaging and exclusive of VAT, alcohol excise, unless agreed otherwise in writing. Special exterior packaging shall be charged at cost price and shall not be taken back, unless agreed otherwise in writing.

- 8.3 Avantor Performance Materials shall be authorized to increase the agreed prices, after an Order Acknowledgement and/or the conclusion of an Agreement, as a result of cost increases, irrespective of their nature and reason (for example as a result of changes of the prices of auxiliary materials, raw materials, freight, import duties, levies, taxes and other charges such as wages, salaries and social premiums).
- 8.4 Excise duty. In case of delivery of products containing alcohol, the dedicated administrative documents have to be returned on due time to Avantor Performance Materials, otherwise excise duty will be charged to the Customer.

Article 9

Payment

- 9.1 Payment has to be made effectively in the currency provided in the Agreement, respectively in the currency mentioned on the invoices.
- 9.2 In case of partial deliveries, Avantor Performance Materials is entitled to invoice each part separately, unless otherwise agreed in writing. Avantor Performance Materials is also entitled to send advance invoices.
- 9.3 All payments have to be made within thirty (30) days after the date of the invoice, unless another term of payment has been agreed upon in writing. Deduction, setoff, discounts or suspension of the payment obligation for whatever reason is not allowed, unless agreed otherwise.
- 9.4 Payments shall be made by Customer by means of money transfer to a bank account designated by Avantor Performance Materials.
- 9.5 Claims about invoices shall have to be submitted to Avantor Performance Materials in writing within fourteen (14) days after the date of the respective invoice. If no claim has been submitted within the aforementioned term, the invoice shall be deemed as accepted and approved by Customer.
- 9.6 If Customer fails to pay within thirty (30) days after the date of invoice or another term of payment agreed in writing, the consequence thereof will be that:
- (i) Customer is in default ipso jure, without any notice of default being required and Avantor Performance Materials will be entitled to dissolve the Agreement wholly or partially, without court intervention being required or to suspend the execution of the Agreement wholly or partially, without any obligation to compensate damages;
 - (ii) All other claims of Avantor Performance Materials against Customer shall become immediately due and payable;
 - (iii) Customer is due an interest rate of 2.5% points on top of the Dutch statutory interest ('wettelijke rente') on the outstanding amount, calculated as from the due date of the invoice until the day of full payment, without any notice of default being required and without prejudice to any other rights of Avantor Performance Materials;
 - (iv) Customer is bound to compensate for all damages sustained and to be sustained by Avantor Performance Materials as a consequence of his overdue payment, including expenses and extra judicial collection costs, inter alia consisting of costs of third parties contracted by Avantor Performance Materials in order to determine and collect the debt. In case of overdue payment, the amount of the extra judicial costs shall be determined ('begroot') in accordance with the collection fee of the Dutch Bar ('incassatarief van de Nederlandse Orde van Advocaten').

- 9.7 Payments made by Customer always serve to settle all costs due primarily, then (accrued) interest and subsequently collectible invoices outstanding for the longest period, irrespective of whether Customer mentions that the settlement concerns a later invoice.
- 9.8 Avantor Performance Materials reserves the right to require an adequate security or guarantee (such as letters of credit, bank guarantees etc.) for the fulfillment of Customer's obligations arising from the Agreement, especially in case Customer fails to pay an invoice timely. If Customer refuses to issue the requested security or guarantee, Avantor Performance Materials shall be entitled to suspend further deliveries and/or to dissolve the Agreement wholly or partially. In that case Customer shall be obliged to compensate for the damage sustained by Avantor Performance Materials including loss of profits.

Article 10

Failure to Fulfill Obligations

In case of non fulfillment or untimely fulfillment of any obligation arising from and/or relating to the Agreement by Customer, as well as in case Customer applies for moratorium or voluntary winding-up, obtains moratorium or a winding-up order, liquidation of Customer or similar circumstances, including attachment at his expense, all claims of Avantor Performance Materials against Customer arising from the Agreement shall immediately be entirely due and payable and Customer shall be deemed to be in default by law with immediate effect. Moreover, Avantor Performance Materials shall be entitled to dissolve the Agreement without court intervention and without any obligation to compensate damages and to take back the delivered unpaid Products in conformity with the provisions set out in Article 7 Paragraph 4, without prejudice to other rights of Avantor Performance Materials (for example to claim damages, including loss of profits).

General Information

Article 11

Force majeure

- 11.1 If as a consequence of force majeure Avantor Performance Materials is not able to deliver or to deliver timely, the obligation of delivery shall be suspended for a period equal to the duration of force majeure.
- 11.2 With respect to price increases during the period of force majeure, Avantor Performance Materials shall be authorized to adapt the agreed price – as referred to in article 8 - and to invoice the adapted price to Customer.
- 11.3 If, as a consequence of a force majeure, the proper performance of the Agreement is permanently impossible or if the proper performance of the Agreement is impossible for a period totaling more than one month, Avantor Performance Materials and Customer shall be entitled to dissolve the Agreement wholly or partially without court intervention. In the event of a force majeure Customer is not entitled to any compensation.
- 11.4 Force majeure shall include any measure of any authority of whatever nature as a consequence of which delivery is (temporarily) limited or prevented, for example in the event importation and exportation are prohibited or prevented, physical or economic stagnations in transport, war, state of war or emergency, mobilization, danger of war, civil war, regardless of the fact whether The Netherlands are involved therein, riots, strike or lock-out, work-to-rule, picketing or entrance blockades and/or industrial interruptions, fire, flooding, frost, explosion, illness of personnel, both in the enterprise of Avantor Performance Materials and in enterprises supplying raw materials or auxiliary materials, and in general all events and circumstances beyond the control of Avantor Performance Materials and in general circumstances which interrupt the regular course of business of Avantor Performance Materials, which are of

such nature that these circumstances cannot reasonably be attributed to Avantor Performance Materials and/or which were not reasonably foreseeable for Avantor Performance Materials at the time the Agreement was concluded, and/or circumstances that are as such that Avantor Performance Materials cannot reasonably be required to fulfill the obligations arising from the Agreement.

Article 12

Liability and Indemnifications

- 12.1 Customer is acquainted with the production process of the Products and knows that the Products are produced and intended for in vitro laboratory use only, unless the label explicitly indicates otherwise. In the event the label does not explicitly indicate that the Products could be used for other purposes than for in vitro laboratory use, Customer declares and undertakes vis à vis Avantor Performance Materials that, in case Customer does not use the Products for in vitro laboratory purposes, such use is at his own risk and in full compliance and in accordance with all applicable public and/or private regulations. Customer assumes full liability for such use of the Products and Customer indemnifies and holds Avantor Performance Materials harmless against any and all liability resulting from such use of the Products.
- 12.2 Notices given by Avantor Performance Materials or in the name of Avantor Performance Materials relating to inter alia the quality, composition, treatment in the broadest sense, possibilities of application and properties of the Products do not bind Avantor Performance Materials, unless expressly made in writing in the form of a warranty ('garantie').
- 12.3 Customer shall check accurately the quantity and the quality of the delivered Products immediately upon

delivery as referred to in Article 5 of these general conditions. Claims with respect to the quantity and the quality of the Products delivered have to be filed within fourteen (14) days after delivery, in writing, provided that defects with respect to not observable defects in the quality of the Products that could not be observed reasonably by Customer within the aforementioned term, have to be filed in writing immediately after Customer observed or could have observed this defect. If no claim is filed in writing within the aforementioned term, Avantor Performance Materials shall be deemed to have duly and correctly fulfilled its obligations resulting or arising from the Agreement with regard to inter alia the quantity and quality.

- 12.4 Claims do not give Customer the right to suspend his payments or to appeal to setoff or discount.
- 12.5 Any partial delivery shall be considered to be a separate delivery.
- 12.6 Unless expressly provided otherwise Products shall exclusively be delivered for in vitro laboratory purposes only. Avantor Performance Materials shall aim at taking care of appropriate labeling, but Avantor Performance Materials does not accept any responsibility and/or liability therefore. Customer is liable for taking all measures to avoid damage to persons and/or goods. Customer shall be obliged to store the Products and to use them in their original packaging and Customer is not allowed to change the labeling or to remove instructions for a correct use of the Products from the Products and/or the packaging.
- 12.7 Customer shall not resell the Products. Customer declares and undertakes vis à vis Avantor Performance Materials that, in case Customer resells the Products, this resale is at his own risk. Customer assumes full liability for any resale of the Products and Customer indemnifies and holds Avantor Performance Materials harmless

- against any and all liability resulting from such resale of the Products.
- 12.8 Avantor Performance Materials shall not be liable for consequential damage or loss of profits sustained by Customer, his subordinate or persons employed by him or the Customer's clients - of whatever name - or for damage to third parties, caused by whole or partial delivery of the Products, delayed or unsound delivery or failure of delivery of the Products. The aforementioned provision does not affect the possible liability of Avantor Performance Materials pursuant to the mandatory legal provisions with regard to product liability.
- 12.9 The total liability of Avantor Performance Materials shall never exceed the net sales price or the net invoice amount of the Products in question which the Customer is due in consideration of the Agreement, with deduction of possible amounts credited by Avantor Performance Materials. In the event that Avantor Performance Materials' liability should exceed the limitation set forth in the previous sentence, Avantor Performance Materials shall in any case never be liable for more than the amount of the liability insurance payment under the insurance coverage of Avantor Performance Materials.
- 12.10 Except for cases of gross negligence or intention of Avantor Performance Materials, Avantor Performance Materials shall not be liable for material and/or emotional damage - including economic damage - caused directly or indirectly by the release of any liquid or solid substance or any gas and/or noise pollution and/or vibrations, in general any nuisance to the whole of living and non living elements of the environment, including all moveable and immovable goods, separately and in conjunction with each other, being: water, air, soil, persons, animals, plants and goods and the relations between

them: ecosystem, nature and landscape and/or any other damage to the environment, by or on account of the delivered Products. Except for cases of gross negligence or intention of Avantor Performance Materials, Customer will have to hold Avantor Performance Materials harmless against claims of third parties with respect to the above-mentioned environmental damage regardless of the form of those claims, and will have to be duly insured against such claims.

- 12.11 Customer shall be obliged to hold Avantor Performance Materials harmless against any and all claims of third parties, regardless of their form and for whatever reason they are filed, which claims are related to the delivered Products which are marketed by Avantor Performance Materials or on behalf of Avantor Performance Materials. Customer is bound to be duly insured against such claims.

Article 13

Foreign Corrupt Practices Act

- 13.1 Customer is acquainted with the Foreign Corrupt Practices Act (the "FCPA") and the FCPA's prohibitions regarding the payment or giving of anything of value either directly or indirectly by an employee or agent of a U.S. company to an official of a foreign government or political party for the purpose of influencing an act or decision in his official capacity, or inducing the official to use his influence with that government, to obtain or retain business with any person or entity.
- 13.2 Customer represents and warrants that any and all fees or commissions payable by Avantor Performance Materials to Customer are for services rendered to Avantor Performance Materials, for the sale of products, and that none of such fees and commissions nor any other funds have been or will be paid, directly or indirectly, to: (a) any official or employee of any

government, political party, or any agency or other instrumentality of government, (b) any officer, director, employee or agent of any customer of Avantor Performance Materials' products, (c) Avantor Performance Materials or any director, officer, or employee of Avantor Performance Materials, or (d) any person, firm, or corporation at the direction of or by arrangement with any director, officer or employee of Avantor Performance Materials.

- 13.3 Customer represents and warrants that none of its owners, principals, or employees, nor any person or entity controlling the Customer, is an official or representative of any government or political party.
- 13.4 Customer will keep complete and accurate books and records pertaining to its financial dealings with Avantor Performance Materials, which records will be made available for review by Avantor Performance Materials upon request.

Article 14

Intellectual Property

- 14.1 Goods marketed by Avantor Performance Materials cannot be offered or traded without Avantor Performance Materials' prior written permission and on conditions to be imposed by Avantor Performance Materials under the trademarks to which are entitled or mentioning the trade name of Avantor Performance Materials.
- 14.2 The Products marketed by Avantor Performance Materials in retail packaging may only be sold in that original retail packaging without any change or damage of the packaging or its contents. The Products may never be offered or delivered as bonus or jointly with other products not marketed by Avantor Performance Materials at one price without the prior written authorization of Avantor Performance Materials.

General Information

- 14.3 All intellectual property rights with respect to the Products, such as patents, royalties, trademarks, models and furthermore all industrial rights and licenses related to the preceding intellectual property rights shall remain property of Avantor Performance Materials and/or the licensor. In case of a possible infringement of any of the intellectual property rights of Avantor Performance Materials by third parties, Customer is obliged to inform Avantor Performance Materials thereof immediately.
- 14.4 Customer shall be bound to impose the preceding obligations set out in this article to his own clients and Customer shall indemnify Purchaser against possible infringements by its clients of the intellectual property rights of Avantor Performance Materials with respect to the Products.
- 14.5 For each violation or inaccurate fulfillment of any of the provisions of this article, Customer shall forfeit to Avantor Performance Materials, without any demand, prior notice or judicial intervention being required, an immediately payable amount of EUR 15,000.- (in words: fifteen thousand euros) for such breach to be increased by a penalty of EUR 1,000 (in words: thousand euros) for each day or part of a day that any such breach shall continue, without Avantor Performance Materials being required to prove any damage or loss and without prejudice to Avantor Performance Materials' right to recover any damages or losses in excess of the penalties.

Article 15

Transfer of Rights and Obligations and Transition of Control

- 15.1 Without the prior written permission of Avantor Performance Materials, Customer shall not be entitled to transfer all or part of his rights and obligations under the Agreement to a third party or to have an Agreement executed wholly or partially by a third party.

- 15.2 If after conclusion of an Agreement the control of all or a substantial part of Customer's enterprise is directly or indirectly transferred to others, Avantor Performance Materials shall be entitled, within thirty (30) days after being informed by Customer of such transfer, to terminate the Agreement unilaterally by registered letter, subject to a notice period of fourteen (14) days, without court intervention, without Avantor Performance Materials being obliged to pay compensation for any damages and/or losses sustained by Customer.

Article 16

Applicable Law and Jurisdiction

- 16.1 These general conditions and all Offers, Orders, Order Acknowledgements and Agreements to which these general conditions are applicable or obligations ensuing there from, shall be governed by and construed in accordance with Dutch law.
- 16.2 15.2 Parties explicitly agree that the United Nations Convention on Contracts for the International Sale of Goods ('Verdrag der Verenigde Naties inzake internationale koopovereenkomsten betreffende roerende zaken') is not applicable to these general conditions.
- 16.3 All disputes relating to or ensuing from Offers, Orders, Order Acknowledgements and/or Agreements to which these general conditions are applicable, shall exclusively be settled by the competent court in The Netherlands.

Under no circumstances shall Avantor Performance Materials be liable for special, indirect, incidental, or consequential damages of any nature, including without limitations, loss of profits or business interruption.

Article 17

Warranty

Avantor Performance Materials products are warranted to conform, on the date of shipment, to current specifications at the time of manufacture. Avantor Performance Materials warranty obligation is limited to replacement of the non-conforming product or the refund of the purchase price, at the option of Avantor Performance Materials.

Trademarks

The following list of trademarks is accurate to the best of our knowledge at the time of printing. Any errors brought to our attention will be corrected in the next issue of this catalog. Please contact the trademark owners or public resources for specific information about these trademarks.

Registered Trademarks of Avantor Performance Materials, Inc.

BAKER ANALYZED
BAKER BIO-ANALYZED
BAKER INSTRA-ANALYZED
BAKERBOND
BakerDRY
BakerFACTS
Baker-flex
CHEMCHOICE
Chemistry That Empowers Discovery
CLk
CYCLE-TAINER
DESICCHLORA
DILUT-IT
HYDRA-POINT
J.T.Baker
Nanograde
NEUTRACIT
NEUTRASORB
PHOTREX
PolarPlus
RESISORB
Right from the Start
SAFETAINER
SafetyCoat
SOLUSORB
Speedisk
ULTRA RESI-ANALYZED
ULTREX

Trademarks of Avantor, Inc.

Avantor
Beaker to Bulk
CARBOXY-SULFON
CYCLE-TAP
ExplorER
Global Pharma
HI-Propyl
narc
PREPSCALE
QUAT
SAF-T-DATA
SAF-T-SPILL
SCOUT
spe-500
VERSA-TEN

Trademarks of Avantor B.V. Deventer

CyMet
DetectoTerge
Diluid
Lyzeroglobin
ProClean
Rapid Stat
UltraClear
UltraKitt
UltraPar

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Crillet	Croda International Plc
LabTec	SciLog, Inc.

The following Registered Trademarks of the companies indicated appear in this catalog:

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Ascarite II	Arthur H. Thomas Company
Brij	ICI Americas, Inc.
Carbitol	Union Carbide Corporation
Carbowax	Union Carbide Corporation
Celite	Celite Corporation
CELLOSOLVE	Union Carbide Corporation
COOMASSIE	BASF Aktiengesellschaft Inc.
Coulter	Coulter Electronics Inc.
Cubitainer	Hedwin Corporation
Darco	Norit Americas, Inc.
Dowex	Dow Chemical Company
DRIERITE	W.A.Hammond Company
Duran	Schott AG
Entegris	Entegris, Inc.
FerroZine	Hach Chemical Company
Flash+	Biotage, Inc.
Florisil	U.S. Silica Company
Hyamine	Lonza, Inc.
Norit	Norit N.V.
NOWPak	ATMI, Inc.
Responsible Care	Chemical Manufacturers Association
Rieke	Rieke Corporation
Sephadex	Amersham Biosciences AB
SPE-DEX	Horizon Technology, Inc.
Swagelok	Swagelok Company
Sysmex	Toa Medical Electronics Co., Ltd.
Teflon	E.I. duPont de Nemours and Company
Tergitol	Union Carbide Corporation
Triton	Union Carbide Corporation
Tween	ICI Americas, Inc.
Viton	E.I. duPont de Nemours and Company

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Analytical Methods

Analytical Chromatography

In the world of analytical chemistry, chromatography has become the most widely used analytical technique due to the convenience, speed of separations, reproducibility, and quantitative accuracy of results that are inherent to the techniques. As instrument sensitivity continues to improve, suitable high purity solvents for the mobile phase and an effective sorbent stationary phase are becoming even more vital to success in the laboratory.

At Avantor Performance Materials, we manufacture chromatography media, develop proprietary bonding chemistries, offer innovative products to support diverse separation techniques and applications, and produce high purity solvents to maximize separation performance in all your chromatography applications.

High Performance Liquid Chromatography (HPLC) Analysis

Liquid chromatography (LC) is the most widely used chromatographic technique being done in most laboratories in operation today. The reasons are many—ease of use, speed, separation reproducibility, and accuracy of results. LC is also generally non-destructive to the sample components, allowing them to be recaptured as they come off the instrument. For optimum HPLC performance, you need the right solvents and

reagents. Whatever your analytical application, Avantor offers the products you need to be successful.

Solvents, Acids, Bases, and Ion Pair Reagents

J.T.Baker HPLC grade products are recommended for use in HPLC applications.

For critical HPLC applications, J.T.Baker solvents remain the preferred choice for chemists throughout the world. Continuing a decades-long tradition of innovation, purity and consistency, these solvents represent years of research and manufacturing excellence to help today's HPLC instruments achieve optimum results.

Our HPLC solvents are manufactured using multi-step purification processes that produce reliable, low backgrounds free of extraneous peaks. Statistical Quality Control (SQC) and Statistical Process Control (SPC) of our processes provide unmatched lot-to-lot consistency. Products are function tested for assay, water, residue after evaporation, and UV absorbance and fluorescence in critical ranges.

Select J.T.Baker acids, bases and ion pair reagents are also available in HPLC grade. These products enhance the usefulness of HPLC as an analytical technique. Products are controlled for solubility in aqueous and organic solutions, UV transparency, and metallic impurities.

J.T.Baker HPLC Solvents

Description	Product Number
Acetone	8142
Acetonitrile, Ultra Gradient Grade	9017
Acetonitrile, HPLC Far UV Gradient Grade	9012
Acetonitrile, HPLC Isocratic Grade	8257
Chloroform (Alcohol Stabilized)	9175
Chloroform (Hydrocarbon Stabilized)	9174
Cyclohexane	9292
o-Dichlorobenzene	9233
Dichloromethane	9315
Diethyl Ether	9237
Ethanol, absolute	8462
Ethyl Acetate	9282
n-Heptane	9177
Hexane (95% n-Hexane)	9304
iso-Hexane	9305
Isobutyl Alcohol	9048
Methanol, HPLC Gradient Grade	8402
Methanol, HPLC Isocratic Grade	8404
Methyl tert-Butyl Ether	9042
Methylene Chloride (Dichloromethane)	9315
Methyl Ethyl Ketone	9214
n-Pentane	9331
2-Propanol (Isopropyl Alcohol)	8175
Pyridine, low water	9393
Tetrahydrofuran	9440, 9441
Tetrahydrofuran, Low Water-UV	9439
Toluene	9351
1,2,4-Trichlorobenzene	9444
2,2,4-Trimethylpentane (Iso-octane)	9480
Water	4218



Analytical Methods

J.T.Baker HPLC Acids, Salts and Ion-Pair Reagents

Description	Product Number
Acids	
Trifluoroacetic acid	9470
Acetic acid, Glacial	9515
Salts	
Ammonium acetate	0390 or 0599
Ammonium Carbonate	0391 or 0651
Ammonium Dihydrogen Phosphate	0392 or 0777
Sodium Acetate Trihydrate	0393 or 3469
Sodium Hydrogen Carbonate	0394 or 3508
Ion-Pair Reagents	
1-Heptanesulfonic acid sodium salt	2173
1-Hexanesulfonic acid sodium salt	2175
1-Octanesulfonic acid sodium salt	2818
1-Pentanesulfonic acid sodium salt Monohydrate	2841
Tetrabutylammonium Hydrogen Sulfate (98%)	2846 or V360
Tetrabutylammonium Hydroxide, Titrant (0.4M in H ₂ O)	2843 or V365
Tetrabutylammonium Phosphate	2842 or V375

J.T.Baker BAKERBOND Sorbents Trifunctional Silane Chemistry

Feature	Benefit
Increased resistance to hydrolysis	Longer column life
Greater stability at pH extremes	Broader effective pH use range
Reduced silanol interactions	Higher recoveries and less "tailing"
More consistent ligand density	Increased resolution and increased column lifetime versus monofunctional bonded phases

Sorbents and Pre-Packed Columns

In addition to high-performance solvents, Avantor Performance Materials manufactures chromatography media for use in HPLC separations. J.T.Baker BAKERBOND sorbents

are synthesized using trifunctional silane chemistry, which results in highly efficient and effective media.

In the broadest terms, our sorbents include bonded phases on narrow-pore and

wide-pore spherical or irregular silica and spherical polymer media. Our silica based BAKERBOND media are available in pre-packed columns for small and large molecule separations.

J.T.Baker Pre-Packed Analytical Columns

Description	Column Size	Particle Size	Particle Shape	Pore Size	Product Number
Narrow-Pore—Reverse Phase					
Octadecyl (C ₁₈)	4.6 x 150 mm	5 µm	Spherical	120 Å	7098-01
	4.6 x 250 mm	5 µm	Spherical	120 Å	7098-00
Octyl (C ₈)	4.6 x 250 mm	5 µm	Spherical	120 Å	7109-00
Narrow-Pore—Normal Phase					
Cyano (CN)	4.6 x 250 mm	5 µm	Spherical	120 Å	7111-00
Wide-Pore—Reverse Phase					
WP Butyl (C ₄)	4.6 x 250 mm	5 µm	Spherical	300 Å	7116-00
WP Octyl (C ₈)	4.6 x 100 mm	5 µm	Spherical	300 Å	7105-01
WP Octadecyl (C ₁₈)	4.6 x 100 mm	5 µm	Spherical	300 Å	7104-01
	4.6 x 250 mm	5 µm	Spherical	300 Å	7104-00
	4.6 x 250 mm	5 µm	Spherical	300 Å	7158-00
WP QUAT (strong anion exchanger)	4.6 x 50 mm	5 µm	Spherical	300 Å	7158-05
	7.75 x 100 mm	5 µm	Spherical	300 Å	7158-06
	4.6 x 250 mm	5 µm	Spherical	300 Å	7114-00
WP CBX (weak cation exchanger)	4.6 x 250 mm	5 µm	Spherical	300 Å	7159-00
WP CARBOXY-SULFON	4.6 x 250 mm	5 µm	Spherical	300 Å	7159-00
	4.6 x 50 mm	5 µm	Spherical	300 Å	7159-05

Ion Chromatography

As chromatography applications spread to separation of biomolecules, such as proteins and peptides, ion chromatography became a widely used technique. In this technique, the separation is due to ionic interactions between opposite charges in the molecules, sorbent, and liquid phase. Ion chromatography is further subdivided into cation

exchange and anion exchange chromatography. Change of pH or ionic concentration of the mobile phase is generally used to cause elution of the analyte.

Avantor Performance Materials manufactures a number of sorbents on spherical or irregular silica for use in ion exchange chromatography of both small and large molecules. J.T.Baker BAKERBOND spherical

silica media exhibits higher mechanical strength than irregular silica and incorporates our proprietary surface chemistry in a variety of particle and pore sizes. Our on-line Technical Library at www.avantormaterials.com contains a selection of application notes for ion exchange applications.

J.T.Baker BAKERBOND Ion Chromatography Media

Description	Package Size	Particle Size	Particle Shape	Pore Size	Product Number
Narrow Pore Media					
Propyl Sulfonic Acid (SO ₃ H)	100g	40 µm	Irregular	60 Å	7045-00
Quaternary Amine (N ⁺)	100 g	40 µm	Irregular	60 Å	7043-00
	1 kg	40 µm	Irregular	60 Å	7043-01
Aromatic Sulfonic Acid (C ₆ H ₅ SO ₃ H)	100 g	40 µm	Spherical	60 Å	7046-00
	1 kg	40 µm	Spherical	60 Å	7046-01
Carboxylic Acid (COOH)	100 g	40 µm	Irregular	60 Å	7044-00
DEAM	100 g	10 µm	Spherical	120 Å	7316-00
	1 kg	10 µm	Spherical	120 Å	7316-01
	500g	20 µm	Spherical	120 Å	7317-05
Wide Pore Media					
ABx (antibody exchanger)	10 g	40 µm	Irregular	275 Å	7269-02
	100 g	40 µm	Irregular	275 Å	7269-00
	500 g	40 µm	Irregular	275 Å	7269-05
	1 kg	40 µm	Irregular	275 Å	7269-01
	10 g	15 µm	Spherical	300 Å	7157-02
	100 g	15 µm	Spherical	300 Å	7157-00
	500 g	15 µm	Spherical	300 Å	7157-05
	10 g	40 µm	Irregular	500 Å	7369-02
	100 g	40 µm	Irregular	500 Å	7369-00
	500 g	40 µm	Irregular	500 Å	7369-05
Abx Plus (antibody exchanger)	10 g	40 µm	Irregular	275 Å	7254-02
	100 g	40 µm	Irregular	275 Å	7254-00
	500 g	40 µm	Irregular	275 Å	7254-05
WP PEI (weak anion exchanger)	10 g	40 µm	Irregular	275 Å	7264-02
	100 g	40 µm	Irregular	275 Å	7264-00
	500 g	40 µm	Irregular	275 Å	7264-05
	10 g	15 µm	Spherical	300 Å	7180-02
	100 g	15 µm	Spherical	300 Å	7180-00
	500 g	15 µm	Spherical	300 Å	7180-05
	10 g	40 µm	Irregular	500 Å	7368-02
	100 g	40 µm	Irregular	500 Å	7368-00
	500 g	40 µm	Irregular	500 Å	7368-05

Analytical Methods

J.T.Baker BAKERBOND Ion Chromatography Media

Description	Package Size	Particle Size	Particle Shape	Pore Size	Product Number
WP DEAM (weak anion exchanger)	10 g	40 µm	Irregular	275 Å	7473-02
	100 g	40 µm	Irregular	275 Å	7473-00
	500 g	40 µm	Irregular	275 Å	7473-05
	1 kg	40 µm	Irregular	275 Å	7473-01
	10 g	15 µm	Spherical	300 Å	7472-02
	1 kg	15 µm	Spherical	300 Å	7472-01
WP QUAT (Strong Exchanger)	10 g	40 µm	Irregular	275 Å	7251-02
	100 g	40 µm	Irregular	275 Å	7251-00
	10 g	15 µm	Spherical	300 Å	7183-02
WP CBX (weak cation exchanger)	10 g	40 µm	Irregular	275 Å	7263-02
	100 g	40 µm	Irregular	275 Å	7263-00
	500 g	40 µm	Irregular	275 Å	7263-05
	1 kg	40 µm	Irregular	275 Å	7263-01
	10 g	15 µm	Spherical	300 Å	7181-02
	500 g	15 µm	Spherical	300 Å	7181-05
WP CARBOXY-SULFON (weak cation exchanger)	10 g	40 µm	Irregular	275 Å	7252-02
	100 g	40 µm	Irregular	275 Å	7252-00
	500 g	40 µm	Irregular	275 Å	7252-05
	1 kg	40 µm	Irregular	275 Å	7252-01
	10 g	15 µm	Spherical	300 Å	7184-02
	500 g	15 µm	Spherical	300 Å	7184-05
WP SULFONIC (strong cation exchanger)	10 g	40 µm	Irregular	275 Å	7489-02
	100 g	40 µm	Irregular	275 Å	7489-00
	500 g	40 µm	Irregular	275 Å	7489-05

LC/MS and UHPLC Analysis

The rapid growth of LC/UV and LC/MS and the development of Ultra High-Pressure Liquid Chromatography (UHPLC) technology have created a need for suitable solvents for use in these applications. Avantor Performance Materials has responded by applying our many years of experience in purification, distillation, and blending to develop a line of high quality J.T.Baker solvents and solvent blends to ensure optimal instrument performance.

Solvents and Solvent Blends

The new J.T.Baker ULTRA LC/MS line of products was developed for the most demanding UHPLC and mass spectrometry (MS) applications, such as proteomics, drug discovery, pharmacokinetics, and clinical research. ULTRA LC/MS solvents are designed to extend the useful life of UHPLC columns by



significantly reducing particles and minimizing the occurrence of erroneous peaks caused by the formation of metal adducts or the presence of organic impurities, such as phthalates or polyethylene glycol.

ULTRA LC/MS products undergo advanced suitability testing with both electrospray positive and negative modes to strengthen detection of extraneous organic impurities. The result is minimal baseline noise, reduced

ionization suppression, and improved sensitivity to both small and large molecule detection. Solvents are packaged in borosilicate bottles to minimize leaching of trace metal impurities over time, which reduces metal adduct formation, improves analyte identification and ensures reliable, consistent, and reproducible results.

J.T.Baker LC/MS grade solvents and blends are optimized to provide low particulates, polyethylene glycol, phthalates and amides, and extremely low levels of metal ions and non-volatile residue. Products are function tested for LC/MS suitability, ESI+, UV-Vis absorbance, trace metals, residue after evaporation, and assay. Interference-free baselines ensure users can have the highest confidence in solvent performance in their applications.

Products for Gas Chromatography (GC) Analysis

The rigorous demands of EPA extraction/concentration protocols drove the development of J.T.Baker solvents for GC analysis.

J.T.Baker solvents are designed, manufactured and tested to provide the best performance on any GC. Avantor Performance Materials solvents are tested and controlled for optimum purity and lot-to-lot consistency for reproducible results at an economical price.

Solvents

J.T.Baker ULTRA RESI-ANALYZED solvents are recommended for use in GC applications.

J.T.Baker ULTRA RESI-ANALYZED solvents start with the finest raw materials available, pass through a combination of chemical and

non-chemical purification technologies that remove reactive solvent impurities, producing higher assays and narrow solvent fronts, and are packaged to maintain purity. Inert gas blanketing throughout the manufacturing and packaging processes, and our unique stabilizer systems provide unmatched product stability and interference-free results.

Products are then function-tested on high resolution capillary GC and proven suitable to the ppt/ppb level on both ECD and FID detectors. Products are tested to meet EPA requirements for extraction/concentration procedures and AOAC requirements for pesticide residue analysis. They are also performance-tested to purity levels below the Lower Level of Quantitation (LLQ) for trace analyte detection by standard EPA methods.

J.T.Baker Solvents and Solvent Blends for UHPLC and LC/MS applications

Description	Product Number
Ultra LC/MS Solvents	
Acetonitrile, Schott DURAN Borosilicate glass bottle	9853
Methanol, Schott DURAN Borosilicate glass bottle	9863
Water, Schott DURAN Borosilicate glass bottle	9823
LC/MS Solvents, Blends and Acids	
Acetonitrile	9821
Methanol	9822
Water	9825
2-Propanol	9830 or 9827
Ethylacetate	9831 or 9828
Solvent Kit – contains 2 x 1 l of Acetonitrile, Methanol and Water*	9880-02
Blends	
0,1% Formic Acid in Acetonitrile	9824
0,1% Formic Acid in Water	9826
0,1% Trifluoroacetic Acid in Acetonitrile	9837
0,1% Trifluoroacetic Acid in Water	9838
Acids	
Formic Acid	9820
Trifluoroacetic acid	9810

* Note: Water is packed in Schott DURAN Borosilicate glass bottle

J.T.Baker ULTRA RESI-ANALYZED Solvents and Salts

Product	Product Number
Acetone	9254
Acetonitrile	9255
Carbon Disulfide	E350
Chloroform	9257
Cyclohexane	9258
Diethylether (EPA Method 8151A)	9259
Ethyl acetate	9260
N-Heptane	9338
Hexane (95% n-Hexane)	9262
Hexane (99 % n-Hexane)	N168
Iso-hexane	9267
Methanol (for Purge & Trap Analysis)	9077
Methanol	9263
Methylene Chloride (Dichloromethane)	9264
Methyl tert-butyl ether	9043
N-Pentane	9333
Petroleum ether 30°-60°	9265
2-Propanol (Isopropyl Alcohol)	9334
Sodium Sulfate Anhydrous (12-60 Mesh)	3375
Tetrachloroethylene	9360
Toluene	9336
2,2,4-Trimethylpentane (Iso-octane)	9335
Water	4219

For product specifications, packaging, and prices, please see the J.T.Baker brand A to Z section (pages 91-405) of this catalog or visit our web site at www.avantormaterials.com

Analytical Methods

Thin-Layer Chromatography

The techniques of Thin Layer

Chromatography (TLC) can be carried out with very simple apparatus, yet produce very effective separations of compounds. This type of chromatography offers an opportunity to utilize efficient and economical technology to achieve excellent separation results. The technique can be used for preliminary characterization of samples for processing in HPLC instrumentation without putting an

expensive column at risk. Other common uses include process development, organic synthesis monitoring, and sample component separations for further analysis or processing

J.T.Baker Thin-Layer Chromatography (TLC) plates and polyester-backed sheets are configured with and without fluorescent indicators using a variety of sorbents and layer thicknesses. Some glass plates are configured with individual channels (4 or 19) to prevent crossover of samples during

processing. Polyester-backed sheets can be easily cut to remove a section of the sheet containing a sample component of interest.

J.T.Baker Hard Layer, Glass-Backed TLC Plates

		Without Fluorescent Indicator		With Fluorescent Indicator	
Plate Size (cm)	Qty	Description	Product Number	Description	Product Number
10 µm SILICA GEL PLATES, 250 µm Analytical Layer					
20 x 20	25	BAKER Si250	7000-04	BAKER Si250F	7001-04
10 x 20	50	BAKER Si250	7000-03	BAKER Si250F	7001-03
5 x 20	100	—	—	BAKER Si250F	7001-00
10 µm SILICA GEL PLATES, 500 µm Analytical Layer					
20 x 20	20	—	—	BAKER Si500F	7002-05
5 µm SILICA GEL PLATES, High Performance TLC, 200 µm Preparative Layer					
10 x 20	50	—	—	BAKER SiHPF	7011-03
10 µm SILICA GEL PLATES, 250 µm Analytical Layer					
20 x 20	25	BAKER Si250-PA	7003-04	BAKER Si250F-PA	7004-04
20 x 20	25	—	—	BAKER Si250F (19C)	7007-04
20 x 20	25	BAKER Si250-PA (19C)	7009-04	—	—
5 x 20	100	—	—	BAKER Si250F (4C)	7008-00
10 µm SILICA GEL PLATES, Reverse Phase, Octadecyl Silica (C18), 200 µm Analytical Layer					
20 x 20	25	BAKER Si-C ₁₈	7012-04	BAKER Si-C18F	7013-04

Note: PA in description indicates preadsorbent spotting area. (19C) in description indicates a 19-channel plate. (4C) in description indicates a 4-channel plate.

J.T.Baker Baker-flex Polyester-Backed TLC Sheets

		Without Fluorescent Indicator		With Fluorescent Indicator	
Plate Size (cm)	Qty/Box	Description	Product Number	Description	Product Number
ALUMINUM OXIDE SHEETS, 200 µm Analytical Layer					
2.5 x 7.5	200	Aluminum Oxide 1B	4466-02	Aluminum Oxide 1B-F	4467-02
5 x 20	50	—	—	Aluminum Oxide 1B-F	4467-00
20 x 20	25	—	—	Aluminum Oxide 1B-f	4467-04

J.T.Baker Baker-flex Polyester-Backed TLC Sheets

		Without Fluorescent Indicator		With Fluorescent Indicator	
Plate Size (cm)	Qty/Box	Description	Product Number	Description	Product Number
Cellulose Sheets, 250 µm Analytical Layer					
20 x 20	25	Cellulose	4468-04	Cellulose F	4469-04
5 x 20	50	Cellulose PEI	4473-00	Cellulose PEI-F	4474-00
20 x 20	25	Cellulose PEI	4473-04	Cellulose PEI-F	4474-04
20 x 20	25	Cellulose Microcrystalline	4480-04	—	—
Silica Gel, 250 µm Analytical Layer					
20 x 20	25	Silica Gel IB2	4448-04	Silica Gel IB2-F	4449-04
Silica Gel, 250 µm Analytical Layer					
2.5 x 7.5	200	Silica Gel IB	4462-02	Silica Gel IB-F	4463-02
20 x 20	25	Silica Gel IB	4462-04	Silica Gel IB-F	4463-04

Silica Gels for Preparative (Low Pressure) Chromatography

J.T.Baker silica gels are available in either 60 or 150 Å pore sizes for use in low pressure preparative chromatography. Most have mesh specifications to ensure there is not an excess of fines in the product, which can affect flow rates and separation performance.

High surface area of these sorbents improves productivity by increasing loading capacity and yield per liter of solvent consumed. Narrow-pore size distribution sharpens peaks and improves resolution. Lot-to-lot consistency provides predictable separations whether you are using gram or kilogram quantities of sorbent.

J.T.Baker Silica Gels for Preparative (Low Pressure) Chromatography

Description	Package Size	Particle Size	Particle Shape	Pore Size	Product Number
Silica Gel – Flash	500 g	40 µm	Irregular	60 Å	7024-05
	1 kg	40 µm	Irregular	60 Å	7024-01
	12 kg	40 µm	Irregular	60 Å	7024-02
	25 kg	40 µm	Irregular	60 Å	7024-25
Silica Gel (60-200 mesh)	500 g	—	—	150 Å	3405-01
	2.5 kg	—	—	150 Å	3405-05
	25 kg	—	—	150 Å	3405-25
Silanized Glass Wool	50 g	—	—	—	7084-05

Analytical Methods

Sample Preparation Products

For as long as scientists have been analyzing compounds, there has been a need for sample preparation to extract and purify sample components. Today's technology for sample preparation is Solid Phase Extraction (SPE), pioneered by J.T.Baker scientists in the 1970's. SPE is grounded in the principles of chromatography—differential interaction between a liquid sample and a solid sorbent that can separate the sample components. Advantages of today's SPE over other wet chemistry methods, such as liquid/liquid extraction, include increased speed, reduced hazardous solvent use and exposure, and improved reproducibility of the separation. We offer a wide range of J.T.Baker silica- and polymer-based SPE columns and unique, high performance *Speedisk* columns and disks. Columns are available in a wide variety of sorbents to improve and simplify sample cleanup and concentration. Our polymer sorbents are highly rigid, water-wettable, and stable over pH range 1–14. With J.T.Baker BAKERBOND SPE and *Speedisk* columns, you can choose the column that best fits your sample size and performance requirements. We recommend BAKERBOND SPE columns when standard performance with good economy is needed. *Speedisk* columns are recommended when higher levels of speed and performance are required.



Following is a performance comparison between a BAKERBOND SPE column and a *Speedisk* column for a typical separation.

The following tables list the various sorbents that we offer pre-packed in J.T.Baker BAKERBOND SPE and *Speedisk* columns. Also included is the functional mode that the column works in and the type of general applications for which the column is used.

The J.T.Baker on-line technical library at www.avantormaterials.com contains many Application Notes concerning specific use of our products in applications.

Our SPE products are available in a variety of formats and configurations.

Avantor Performance Materials also offers J.T.Baker vacuum and positive-pressure processors for SPE columns, disks, and plates.

The guide on the following page can help you select appropriate sorbents and solvents for separations based on sample type and separation parameters.

J.T.Baker SPE Product Formats

Format	Description
BAKERBOND SPE columns	Standard BAKERBOND SPE 1, 3 and 6ml columns, round-rimmed and earshaped in ultraclean polypropylene and glass
<i>Speedisk</i> Columns	<i>Speedisk</i> 1, 3 and 6 ml columns are configured to run 9 times faster than traditional SPE columns, operating with smaller solvent volumes and having higher capacity per milligram sorbent than conventional SPE columns
<i>Speedisk</i> 96 Columns	Rimless 20mg <i>Speedisk</i> columns made for insertion in <i>Speedisk</i> 96 column holder for use on a microplate processor
<i>Speedisk</i> 96 Well Plate	A one-piece molded 96 well plate that is pre-assembled with the polymer sorbent of your choice. The plate was designed with standard geometries to adapt to most popular automated liquid handling systems.
<i>Speedisk</i> Extraction Disks	50 mm disks that are the correct choice for samples from 200 ml to 2 L. They are neither cartridge nor membrane. A thin bed of BAKERBOND sorbent microparticles is supported in a laminar structure to maintain speed and capacity and enhance reproducibility of adsorption.

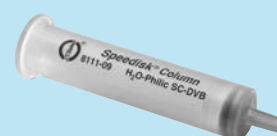
Selection Guide for SPE Sorbents and Solvents

Organic Samples MW < 2000 (in solution)								
SAMPLE SOLUBILITY	Organic Solvent SOLUBLE			Water Soluble				
SAMPLE Matrix	Organic	Organic	Aqueous	Ionic		Non-ionic/Ion-paired		
	Polar	Moderately Polar	Non Polar	Anionic	Cationic	Aqueous	Aqueous	Aqueous
						Non Polar	Moderately Polar	Polar
Mechanism ¹	NPC	LSC	RPC	IEC	IEC	RPC	LSC	NPC
Spe Phase Recommended ²	H ₂ O-Philic DVB	H ₂ O Phobic DVB	H ₂ O-Phobic DVB	H ₂ O-Phobic	H ₂ O Phobic	H ₂ O Phobic DVB	H ₂ O-Phobic DVB	H ₂ O-Philic DVB
	Cyano	H ₂ O-Philic DVB	H ₂ O-Philic DVB	WA-DVB	SC-DVB	H ₂ O Philic DVB	H ₂ O-Philic DVB	Cyano
	Diol	Silica gel	SDB-1/SDB-2	H ₂ O-Philic	H ₂ O-Philic	SDB-1/SDB-2	Silica gel	Diol
	Amino	Florisil	Octadecyl	SA-DVB	SC-DVB	Octadecyl	Florisil	Amino
	1,2 Amino	Alumina	Cyano	Amino	Cyano	Octyl	Alumina	1,2 Amino
			Cyclohexyl	1,2 Amino	Carboxylic Acid	Cyclohexyl		
			Phenyl	Quaternary	Sulfonic Acid	Phenyl		
			Cyano	Amine		Cyano		
Solvents ^{3,4}	Hexane	Hexane	Hexane	Acids,	Acids, bases,	Hexane	Hexane	Hexane
	Chloroform	Chloroform	Dichloromethane	buffers	buffers	Dichloromethane	Chloroform	Chloroform
	Dichloromethane	Dichloromethane	Acetone			Acetone	Dichloromethane	Dichloromethane
	Acetone	Ethyl acetate	Acetonitrile			Acetonitrile	Ethyl acetate	Acetone
	Methanol	Methanol	Methanol			Methanol	Methanol	Methanol
			Water			Water		
¹ Separation Mechanisms LSC: Liquid Solid Chromatography (Adsorption) NPC: Normal Phase Chromatography (Bonded Phase Partition) RPC: Reversed Phase Chromatography (Bonded Phase Partition) IEC: Ion-Exchange Chromatography (Bonded Phase Ion-Exchange)				² Bonded phases listed in order of increasing polarity ³ Eluting solvents listed in order of increasing polarity Selective elution can be preformed by combining two or more miscible solvents to achieve various degrees of polarity				
SDB: styrene divinyl benzene DVB: divinyl benzene H ₂ O-Phobic WA DVB: Weak anion exchanger H ₂ O-Phobic SC DVB: Strong cation exchanger H ₂ O-Philic SA DVB: Strong anion exchanger H ₂ O-Philic SC DVB: Strong cation exchanger				^{3,4} Solvents: 9262 Hexane, ULTRA RESI-ANALYZED 9257 Chloroform, ULTRA RESI-ANALYZED 9264 Dichloromethane, ULTRA RESI-ANALYZED 9260 Ethyl acetate, ULTRA RESI-ANALYZED 9254 Acetone, ULTRA RESI-ANALYZED 9255 Acetonitrile, ULTRA RESI-ANALYZED 9077 Methanol, ULTRA RESI-ANALYZED 4219 Water, ULTRA RESI-ANALYZED				

Analytical Methods

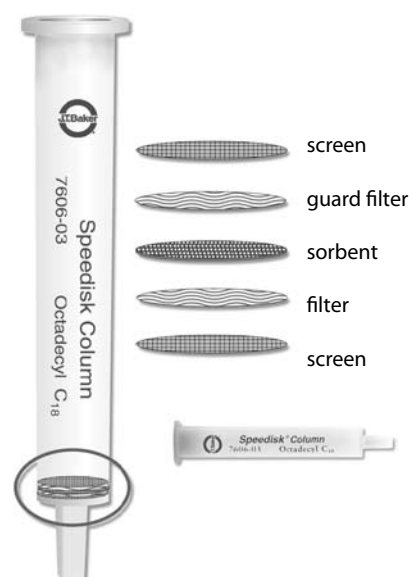
General product overview

Attribute	Silica based SPE products	Polymer based SPE products	Activated Carbon
BAKERBOND spe column	Reverse phase Normal phase Ion exchange Adsorption Drug of abuse	Styrene Divinylbenzene copolymer (SDB)	Activated Spherical Carbon
BAKERBOND Speedisk column	Reverse phase Normal phase Ion exchange Adsorption Drug of abuse	Divinylbenzene (DVB) H ₂ O-Philic DVB H ₂ O-Philic SC-DVB H ₂ O-Phobic DVB H ₂ O-Phobic SC-DVB H ₂ O-Philic SA-DVB H ₂ O-Phobic WA-DVB	
BAKERBOND Speedisk 96	Silica Columns (in holder)	Polymer Columns (in holder) Well Plates Polymer Sorbents (compatible with automatic systems)	
BAKERBOND Speedisk Extraction Disk	Extraction disks for manual extraction stations and for automated extractors	Extraction disks for manual extraction stations and for automated extractors	



J.T.Baker BAKERBOND SPE and Speedisk Columns Analysis Comparison

Sample preparation step	BAKERBOND spe columns	BAKERBOND Speedisk columns
Column Size / Sorbent	1 cc / 100 mg	1 cc / 20 mg
Particle Size	40 µm	25 µm
Sample volume	2 ml	1 ml
Column conditioning	2 ml (20–40 sec)	0.5 ml (5–10 sec)
Sample addition	2 ml (100 sec)	50 µl – 0.5 ml (50 sec)
Washing	1.5 ml (15–20 sec)	0.4 ml (2–5 sec)
Elution	1–2 ml	0.3–0.6 ml
Sample concentration/evaporation	3–10 minutes	Reduced or eliminated



Silica Columns

J.T.Baker carefully defines and controls critical surface chemistry parameters to ensure performance consistency. Our knowledge and experience have led to the development of wide range of silica products - endcapped that offer high hydrolytic stability and non-endcapped, used in extraction of more

polar analytes. SPE silica-based sorbents provide predictable and consistent extractions for discrete subsets of a broad range of sample types. Mixed-mode sorbents we can suggest you for the extraction of compounds from more complex matrixes. Product range includes weak and strong cation and anion exchange sorbents.

Speedisk columns offer microparticulate silica on a unique bed support system that ensures higher levels of performance than standard SPE columns.

J.T.Baker BAKERBOND SPE Columns

Description	Functional Mode	General Applications	Product Number*
Octadecyl (C ₁₈)	Reverse Phase	Non-ionic, non-polar to moderately polar analytes	7020-xx
Octadecyl (C ₁₈) LightLoad	Reverse Phase	Non-ionic, non-polar to polar analytes	7189-xx
Octadecyl (C ₁₈) PolarPlus	Reverse Phase	Non-ionic, basic, non-polar to polar analytes	7466-xx
Octyl (C ₈)	Reverse Phase	Non-ionic, non-polar to moderately polar analytes	7087-xx
Ethyl (C ₂)	Reverse Phase	Polar and Basic Analytes	7273-xx
Phenyl (C ₆ H ₅)	Reverse Phase	Polar from non-polar/polar solvents using hydrogen bonding like mechanisms	7095-xx
Cyclohexyl (C ₆ H ₁₁)	Reverse Phase	Non-ionic, non-polar analytes	7212-xx
Cyano (CN)	Reverse Phase/ Normal Phase	Non-ionic, non-polar to polar analytes	7021-xx
Diol (COHCOH)	Normal Phase	Non-ionic, polar analytes	7094-xx
Amino (NH ₂)	Normal Phase/Ion Exchange	Lipids (fatty acids, cholesterol)	7088-xx
Diamino (NH ₂ /NH ₂)	Normal Phase/Ion Exchange	Lipids (fatty acids, cholesterol)	7089-xx
Quaternary Amine (N ⁺)	Strong Anion Exchange	Ionic, acidic analytes	7091-xx
Aromatic Sulfonic Acid (C ₆ H ₅ SO ₃ H)	Strong Cation Exchange	Ionic, basic analytes	7090-xx
Carboxylic Acid (COOH)	Weak Cation Exchange	Ionic, basic analytes	7211-xx
Floril (Mg ₂ SiO ₃)	Adsorption	Adsorbs low to moderately polar analytes from nonaqueous solutions	7213-xx
Silica Gel (SiOH)	Adsorption	Adsorbs polar analytes from non-polar solvents like hydrocarbons and less polar esters and ethers	7086-xx
narc-1 (Δ9-carboxy THC)		Carboxy-tetrahydrocannabinol (THC)	7221-xx
narc-2 (Cocaine, BEC)	Mixed	Hydrophobic/basic analytes (Cocaine, Benzoylcegonine)	7225-xx

* xx - different number for every pack size; for detailed product listing with column size and sorbent mass see pages 407-433

J.T.Baker Speedisk Columns

Description	Functional Mode	General Applications	Product Number*
Octadecyl (C ₁₈)	Reverse Phase	Non-ionic, non-polar to moderately polar analytes	7606-xx
Octadecyl (C ₁₈) Lightload	Reverse Phase	Non-ionic, non-polar to polar analytes	8151-xx
Octadecyl (C ₁₈) PolarPlus	Reverse Phase	Non-ionic, basic, non-polar to polar analytes	8153-xx
Octyl (C ₈)	Reverse Phase	Non-ionic, non-polar to moderately polar analytes	8154-xx
Phenyl (C ₆ H ₅)	Reverse Phase	Polar from non-polar/polar solvents using hydrogen bonding like mechanisms	8160-xx
Quaternary Amine (N ⁺)	Strong Ion Exchange	Ionic, acidic analytes	8168-xx
Diol (COHCOH)	Normal Phase	Non-ionic, polar analytes	8167-xx
Amino (NH ₂)	Ion Exchange/Normal Phase	Lipids (fatty acids, cholesterol)	8165-xx
Aromatic Sulfonic Acid	Strong Cation Exchange	Ionic, basic analytes	8170-xx
Carboxylic Acid	Weak Cation Exchange	Ionic, basic analytes	8172-xx
Silica	Adsorption	Adsorbs polar analytes from non-polar solvents like hydrocarbons and less polar esters and ethers	8163-xx
narc-1 (Δ9-carboxy THC)	-	Carboxy-tetrahydrocannabinol (THC)	8174-xx
narc-2 (Cocaine, BEC)	Mixed	Hydrophobic/basic analytes (Cocaine, Benzoylcegonine)	8175-xx

* xx - different number for every pack size; for detailed product listing with column size and sorbent mass see pages 407-433

Analytical Methods

Special Application Columns

We offer a number of SPE columns for specific applications. These columns are generally configured for an application with either a specific sorbent, volume of sorbent, or special column.

Extraction columns for drugs of abuse

For drug testing applications, we offer Narc-1 and Narc-2 columns.

- Narc-1 columns are formulated for rapid, reproducible extraction of Δ THC-carboxylic acid from urine using a unique, patented carboxy ester bonded phase. Narc-1 has a high selectivity for Δ THC-carboxylic acid and provides highly consistent recoveries without co-extracting many other common drugs. (PN 7221-03; PN 8174-xx)
- Narc-2 columns contain a mixed-mode sorbent for the extraction of basic compounds, such as opiates, LSD, phencyclidine, amine-based drugs, cocaine, and others. narc-2 columns can be used for basic drug screening, as well as acidic/neutral drugs. (PN 7225-xx; PN 8175-xx)

Both sorbents are available in J.T.Baker BAKERBOND SPE and *Speedisk* formats.

Application Notes for use of these products are available in our Technical Library at www.avantormaterials.com.

Extraction columns for PAH applications

For the extraction and clean-up of Poly Aromatic Hydrocarbons (PAH), including the 16 priority pollutant EPA PAH's J.T.Baker offers several applications using different SPE columns with combination (double) phases:

- BAKERBOND spe PAH SOIL (500mg Cyano/1000mg SiOH) is designed for the clean-up of PAH's in soil extracts (PN 7518-08)
- BAKERBOND spe PAH AQUA (1000 mg C₁₈ / 500 mg NH₂) is designed for the extraction of PAH's from water (DIN 38407) (PN 7490-07; PN 7490-08)

Extraction columns for PCB applications

For the extraction and clean-up of PCB's Avantor Performance Materials designed two different columns:

- BAKERBOND spe PCB-N, (500mg Ar-SO₃ / 500 mg SiOH) for the extraction of PCB's from oil (DIN 51527, part 1) (PN 7524-04)
- BAKERBOND spe PCB-A (500 mg SiOH/ H₂SO₄ / 500 mg Ar-SO₃) in combination with BAKERBOND spe Silica Gel, for the extraction of PCB's in oil (dirty samples) (PN 7511-04)

Extraction column for Acrylamide applications

For the extraction and purification of organic compounds such as acrylamide and other polar compounds we developed a spherical activated carbon:

- BAKERBOND spe Carbon (PN 7575-06; PN 7575-07)

Extraction columns for Pesticides applications

For the extraction of pesticides from water J.T.Baker designed the following double phase column:

- BAKERBOND spe (500 mg C₁₈ / 200 mg SDB-1) (PN 7650-07)
- BAKERBOND spe (250 mg C₁₈ Polar Plus / 100 mg SDB-1) (PN 7704-06)

Extraction column for Pesticide Residue Analysis

For the removal of matrix components when performing the clean-up of pesticide residues in, especially, food and feed analysis J.T.Baker developed a dual-layer column:

- BAKERBOND spe Carbon/Amino (500 mg Carbon / 500 mg Amino) (PN 7450-07)

Extraction columns for Mineral Oil Index application

For the clean-up of extracts of mineral oil J.T.Baker has exclusively developed several new products which are tested according to ISO 9377-2 including ready to use SPE glass column (packed with Florisil at bottom and Sodium Sulfate on top).

- BAKERBOND spe Clean-up Column (PN 7495-04; 7495-18)

Proteins and Polynucleotides Columns

For large biomolecule separations, we offer SPE columns packed with J.T.Baker BAKERBOND wide-pore media designed specifically for this use. For methods development or optimization, our sorbent selection kit contains columns with a variety of sorbents. See the Sorbent Selection Kits section for more information on these kits.

BAKERBOND SPE Columns—Protein, Polynucleotide Sample Prep

Description	Product Number
Sorbent Selection Kits – Proteins and Large Molecules*	7239-09
Wide-Pore Butyl (C ₄)	7216-06
Wide-Pore CBX (COOH)	7217-06
Wide-Pore PEI (NH)	7218-06
Wide-Pore HI-Propyl (C ₃)	7238-06
Sephadex G-25	7219-07

* Contains 3 of each of CBX, PEI, HI-Propyl, Butyl and Sephadex G-25

Sorbent Selection Kits

J.T.Baker BAKERBOND SPE sorbent selection kits are available for small molecules and for proteins and large molecules. These kits are ideal for method development or optimization. Both kits contain a variety of sorbents in an appropriate column size.

Polymer Columns

Among the wide range of SPE sorbents, Avantor Performance Materials offers you polymeric sorbents that will improve the recovery of your sample preparation:

- BAKERBOND spe SDB phase that have large surface area, are highly rigid and stable over whole pH range
- BAKERBOND *Speedisk* polymer columns

BAKERBOND SPE Columns—Sorbent Selection Kits

Description	Product Number
Small Molecules ¹	7096-00
Proteins and Large Molecules ²	7239-09
¹ Contains 5 of each of Octadecyl, Octyl, Phenyl, Silica, Cyano, Amino, Diol, Quaternary Amine, Diamino, Aromatic Sulfonic Acid, Carboxylic Acid	
² Contains 3 of each of CBX, PEI, HI-Propyl, Butyl and Sephadex G-25	

Packed with polymer resins, which are products of our ultra clean polymer microparticle technology. These resin particles have a large surface area, are highly rigid, are stable over pH range 1–14, are water-wettable and are not impacted by sorbent drying. Columns are available in hydrophobic, hydrophilic, and ion exchange forms. We recommend these

columns when advanced detection methods will be used.

SPE Polymer Columns—Reversed Phase

Description	Functional Mode	General Applications	Product Number*
BAKERBOND SDB-1	Adsorption	Slightly polar to non-polar analytes	7519-xx
BAKERBOND SDB-2	Adsorption	Polar to non-polar analytes	7523-xx

* xx - different number for every pack size; for detailed product listing with column size and sorbent mass see pages 407–433

Speedisk Polymer Columns—Hydrophilic

Description	Functional Mode	General Applications	Product Number*
H ₂ O-Philic DVB	Adsorption	Polar to non-polar analytes	8108-xx
H ₂ O-Philic SC-DVB (SO ₃)	Mixed mode	Ionic, basic analytes	8111-xx
H ₂ O-Philic SA-DVB (N ⁺)	Mixed mode	Ionic, acidic analytes	8113-xx

* xx - different number for every pack size; for detailed product listing with column size and sorbent mass see pages 407–433

Speedisk Polymer Columns—Hydrophobic

Description	Functional Mode	General Applications	Product Number*
H ₂ O-Phobic DVB	Adsorption	Slightly polar to non-polar analytes	8109-xx
H ₂ O-Phobic SC-DVB (SO ₃)	Mixed mode	Ionic, basic analytes	8196-xx
H ₂ O-Phobic WA-DVB (NH ₂)	Mixed mode	Ionic, acidic analytes	8115-xx

* xx - different number for every pack size; for detailed product listing with column size and sorbent mass see pages 407–433

Analytical Methods

J.T.Baker Speedisk 96 Columns and Speedisk 96-Well Plates

For method development, you can place up to 96 rimless 1 ml, 20 mg *Speedisk* 96 columns in the *Speedisk* 96 column holder (Product Number 8150-00), and the disposable assembly is ready for placement on a microplate processor, such as our *Speedisk* 96

processor. You can remove unneeded columns from the holder and assemble custom trays for efficient method development. Once method development is complete, you can use the *Speedisk* 96-well plate, a one-piece pre-assembled molded plate. The plate was designed with standard geometries

to adapt to the most popular automated liquid handling systems. Inquire about more than 15 functionalities of silica and polymer-based sorbents for either *Speedisk* 96 columns or well plates.

Speedisk 96 Silica Columns

Description	Functional Mode	General Applications	Product Number
Octadecyl (C ₁₈)	Reverse Phase	Non-ionic, non-polar to moderately polar analytes	7606-11
Octadecyl (C ₁₈) Lightload	Reverse Phase	Non-ionic, non-polar to polar analytes	8151-11
Octadecyl (C ₁₈) PolarPlus	Reverse Phase	Non-ionic, basic, non-polar to polar analytes	8153-11
Octyl (C ₈)	Reverse Phase	Non-ionic, non-polar to moderately polar analytes	8154-11
Phenyl (C ₆ H ₅)	Reverse Phase	Polar from non-polar/polar solvents using hydrogen bonding like mechanisms	8160-11
Quaternary Amine (N ⁺)	Strong Ion Exchange	Ionic, acidic analytes	8168-11
Diol (COHCOH)	Normal Phase	Non-ionic, polar analytes	8167-11
Amino (NH ₂)	Ion Exchange/Normal Phase	Lipids (fatty acids, cholesterol)	8165-11
Aromatic Sulfonic Acid	Strong Cation Exchange	Ionic, basic analytes	8170-11
Carboxylic Acid	Weak Cation Exchange	Ionic, basic analytes	8172-11
Silica	Adsorption	Adsorbs polar analytes from non-polar solvents like hydrocarbons and less polar esters and ethers	8163-11
narc-1 (Δ9-carboxy THC)		Carboxy-tetrahydrocannabinol (THC)	8174-11
narc-2 (Cocaine, BEC)	Mixed	Hydrophobic/basic analytes (Cocaine, Benzoyllecgonine)	8175-11

Speedisk 96 Polymer Columns

Description	Functional Mode	General Applications	Product Number
H ₂ O-Philic DVB	Adsorption	Polar to non-polar analytes	8108-11
H ₂ O-Philic SC-DVB (SO ₃)	Mixed mode	Ionic, basic analytes	8111-11
H ₂ O-Philic SA-DVB (N ⁺)	Mixed mode	Ionic, acidic analytes	8113-11
H ₂ O-Phobic DVB	Adsorption	Slightly polar to non-polar analytes	8109-11
H ₂ O-Phobic SC-DVB (SO ₃)	Mixed mode	Ionic, basic analytes	8196-11
H ₂ O-Phobic WA-DVB (NH ₂)	Mixed mode	Ionic, acidic analytes	8115-11

Speedisk 96-Well Plates & Accessories

Description	Functional Mode	General Applications	Product Number
H ₂ O-Philic DVB	Adsorption	Polar to non-polar analytes	8077-96
H ₂ O-Philic SC-DVB (SO ₃)	Mixed mode	Ionic, basic analytes	8132-96
<i>Speedisk</i> 96 Column Holder	-	-	8150-00



J.T. Baker BAKERBOND Speedisk Extraction Disks

Our patented 50 mm extraction disks are designed primarily for environmental samples. BAKERBOND Speedisk extraction disks are the correct choice for samples from 200 ml to 2 L. Our patented disk is pre-assembled for use in preparing aqueous samples for analysis. The laminar configuration provides filtration capacity and inlet characteristics that maximize access of analyte molecules to the microparticulate sorbent. The BAKERBOND Speedisk design resists clogging and ensures high throughput, even when samples contain solids. Capacity, recovery, and precision are high due to the unique disk configuration and the performance of our BAKERBOND sorbents. Products can be used with J.T. Baker extraction stations or inexpensive adapters are available for use with other brands of extraction stations.

BAKERBOND Speedisk Extraction Disks shorten extraction time to less than one hour. Versatile, silica and polymer based, BAKERBOND Speedisk Extraction Disks can be used for clear and particle-rich samples.

BAKERBOND Speedisk Extraction Disks:

- Ensure rapid run completion even with dirty samples
- Reduce solvent consumption and hazardous waste
- Improves precision with its optimized flow path design
- Provides additional technology options to meet EPA requirements

The patented BAKERBOND Speedisk extraction disk is neither cartridge nor membrane. A thin bed of micro-particles of BAKERBOND sorbent is supported in a laminar structure to maintain speed and capacity and enhance reproducibility of adsorption. The laminar configuration provides filtration capacity and inlet characteristics that maximize access of analyte molecules to the microparticulate sorbent.

BAKERBOND Speedisk Extraction Disk design resists clogging and ensures high throughput rates even when samples contain solids.

Capacity, recovery, and precision are high due to the unique disk configuration and performance of BAKERBOND sorbent. With BAKERBOND Speedisk extraction disk sample contamination is virtually eliminated:

- Your hands never touch the wetted parts of the pre-assembled disk
- The sorbent and disk housing are pre-cleaned
- polyester packaging provides a barrier that repels moisture and eliminates the risk of contamination by plastic additives (e.g. phthalates)

BAKERBOND Speedisk Extraction Disks are compatible with J.T. Baker standard **vacuum processors** and **Speedisk Extraction Station**

Typical applications:

- Multiresidue Analysis Method of Triazines, Organochlorine Pesticides and Polyaromatic Hydrocarbons in Drinking Water
- Phenols in aqueous matrix such as SW 846 Method 8041 or EPA Method 528 analytes
- Extraction of Semivolatile Organic Compounds using a Single pH - EPA Method 8270 Analytes
- Extraction of Carbamates from Water using SDB-1 or Speedisk H₂O-Phobic DVB Column
- Extraction of Chlorinated Acids from Water (EPA Method 515.2)
- Extraction of EPA Method 525.2 Analytes from Water
- Extraction of EPA Method 528 and 8041 Analytes from Water
- Extraction of EPA Method 608/8080 Analytes
- Extraction of EPA Method 8081A or 8082 Analytes - Organochlorine Pesticides or Polychlorinated Biphenyls using H₂O-Phobic DVB Extraction Disk
- Extraction of Pharmaceuticals from Water
- Extraction of Polycyclic Aromatic Hydrocarbons from Drinking Water
- Extraction of Phthalate and Adipate Esters from Drinking Water

Analytical Methods

Speedisk Extraction Disks

Description	General Applications	Quantity per box	Product Number
C ₁₈ (octadecyl) 50 mm disks for water samples	For Use in EPA Methods 500 Series, 608, SW 846/3535 and with slightly polar to non-polar industrial samples	20	8055-06
C ₁₈ (octadecyl) 50 mm disks for water samples, High capacity		20	8055-07
C ₁₈ Polar Plus 50 mm disks for water samples containing slightly polar to non-polar analytes	For extraction of slightly polar to moderately polar compounds such as sulfonyleureas, phenols, chlor-phenoxy acids and urones	20	8061-06
C ₁₈ XF (Extra filter) 50 mm disks for crude and dirty samples	For dirty samples: EPA method 608, 846 and slightly polar to non-polar industrial samples	20	8056-06
C ₈ (octyl) 50 mm disks for diquat/paraquat	For diquat, paraquat, EPA method 549.1	20	8057-06
H ₂ O Phobic DVB (DiVinylBenzene) 50 mm disks for chlorinated acids	For chlorinated acids, EPA Method 515.2. Slightly polar to non-polar analytes	20	8068-06
H ₂ O Phobic DVB (DiVinylBenzene) 50 mm disks, High capacity*		20	8068-07
H ₂ O Philic DVB (DiVinylBenzene) 50 mm disks for chlorinated acids	For SW846 hydrophobic to slightly hydrophilic compounds	20	8072-06
H ₂ O Philic DVB (DiVinylBenzene) 50 mm disks, High capacity*		20	8072-07
Oil & Grease 50 mm disks for hydrocarbons / Oil & Grease	For extraction of slightly polar to non-polar hydrocarbons, EPA method 1664, Rev.A	20	8060-06
SAX (strong Anion Exchanger) 50 mm disks for haloacetic acids / Dalapon	For EPA Method 552.1, haloacetic acids and Dalapon	20	8058-06

* High capacity: higher sorbent mass

For a complete list of EPA methods that our *Speedisk* extraction disks are suitable for, along with application notes for each method, please visit our web site at: www.avantormaterials.com



Processors, Extraction Station and Accessories

We offer a variety of J.T.Baker processors to meet your extraction needs in three ways:

- standard vacuum processors for flexibility of processing different SPE devices in the same experiment
- positive pressure processors for exceptional precision, control, and reliability and Extraction Station

Standard Vacuum Processors for Extraction Columns

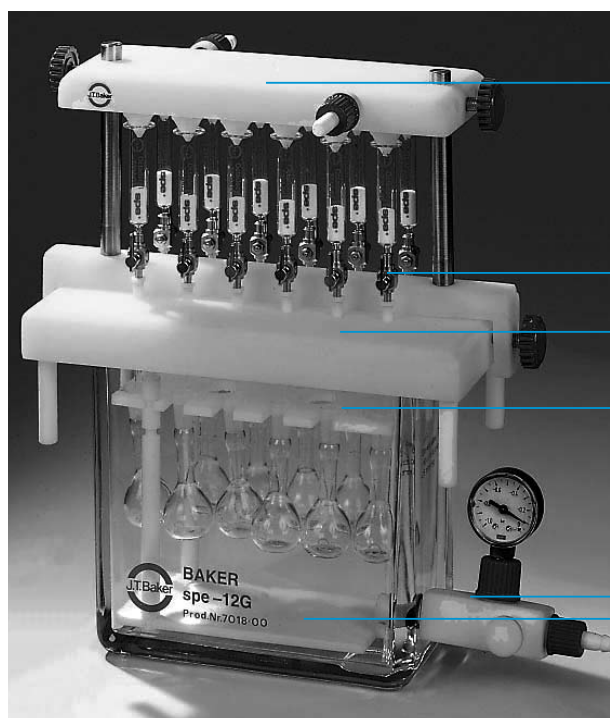
J.T.Baker standard vacuum processors offer the flexibility of processing SPE devices of different heights, diameters, or formats during the same experiment. The vacuum processor design is familiar throughout the industry, and it supports all devices and accessories with luer-type fittings such as BAKERBOND spe, *Speedisk* columns as well as *Speedisk* extraction disks.

The J.T.Baker BAKER SPE-12G is a 12-port system for processing up to 12 SPE columns at the same time. The processor comes complete with a glass vacuum basin, a cover with luer fittings and gasket, individual flow control stopcocks, stainless steel needles, a sample collection rack, height-adjustable shelves, and a vacuum gauge/controller. The

BAKER SPE-24G is a 24-port system with the same components as the SPE-12G.

Replacement parts and accessories for both processors are available as detailed in the adjacent table.

Analytical Methods



4581

4514

7513-00

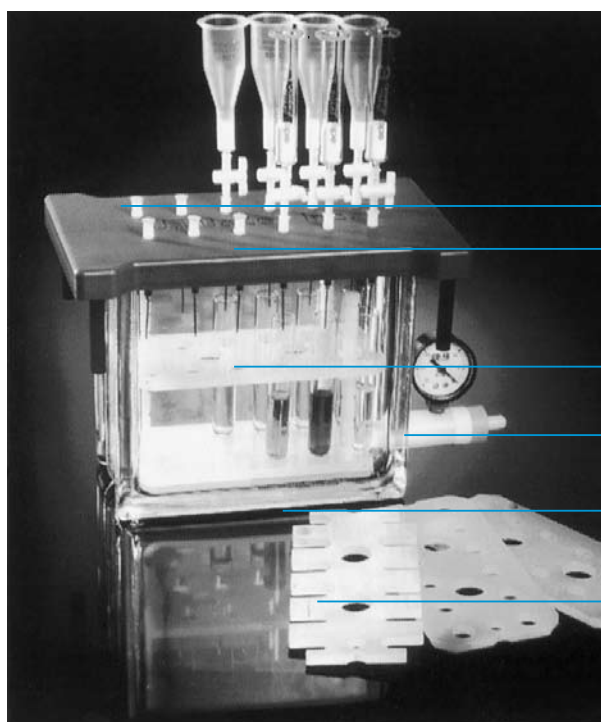
7516-00

7515-00
7512-00**BAKER spe-12G Column Processor (PTFE Design) (7018-94)**

BAKER spe-12G Column Processor (PTFE Design) includes: 1 borosilicate glass vacuum chamber, 1 white-colored polyamide lid inclusive 12 luer PTFE connectors, plugs (12x) for lid, 1 polyethylene gasket, 12 Luer PP Stopcocks, 1 PTFE sample collection rack set including height adjustable shelves, 1 vacuum gauge/PTFE controller assembly, 1 instruction sheet, 1 BAKERBOND spe Application Notes Manual.

Description	Quantity per box	Product Number
Extraction Column Processor replacement parts for BAKER spe-12G Column Processor (PTFE design)		
Borosilicate Glass Vacuum Chamber	1	7512-00
Polyamide Lid (with 12 PTFE luer connectors)	1	7513-00
PTFE Sample Collection Rack Set	1	7516-00
Polyethylene Gasket Seals	2	7430-00
Neoprene Gasket Seals	2	7433-00
Plugs for lid that fits into luer PTFE connectors (4586)	30	7517-00
Luer PTFE Stopcocks	12	7514-00
Luer PTFE Connectors (one-piece)	12	4586
Polypropylene Stopcocks	10	7241-00
Vacuum Gauge/PTFE Controller Assembly	1 Assembly	7515-00
Accessories for BAKER spe-12G Column Processor (PTFE design)		
Autosampler Plate	1	7516-01
Drying Top, polyamide for drying (columns) or evaporation (eluates) purpose	1	4581
PTFE Lined Luer locks (taps), Stainless Steel	12	4514
Stop Cocks, polypropylene	10	7241-00

Analytical Methods



2120-02

7424-00

7427-00

7437-00

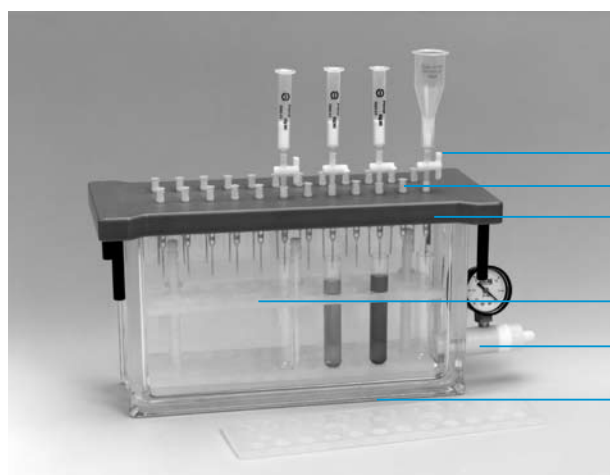
7421-00

7427-00

BAKER spe-12G Column Processor (7018-00)

BAKER spe-12G Column Processor complete- includes: 1 glass vacuum chamber, 1 nylon cover with 12 luer connectors and 1 polyethylene gasket, 12 individual flow control polypropylene stopcocks, 12 plugs for lid, 12 stainless steel needles, 1 sample collection rack with 3 support posts, 3 height adjustable shelves, 9 shelf support clips, 1 vacuum gauge/polypropylene controller assembly, 1 instruction sheet, 1 BAKERBOND spe Application Notes Manual.

Description	Quantity per box	Product Number
Extraction Column Processor replacement parts for BAKER spe-12G Column Processor		
Glass Vacuum Chamber	1	7421-00
Nylon Lid (with 12 luer connectors)	1	7424-00
Polypropylene Rack Set	1	7427-00
Polyethylene Gasket Seals	2	7430-00
Neoprene Gasket Seals	2	7433-00
Polypropylene Replacement Needles	12	7436-00
Vacuum Gauge / Controller Assembly	1 assembly	7437-00
Plugs for Lid	30	7327-00
Polypropylene Stopcocks	10	7241-00
Polypropylene Luer Connector Female	12	2120-02
Polypropylene Luer Connector Male	12	2121-20
Stainless steel needles	12	7323-00
ACCESSORIES for BAKER spe-12G Column Processor		
Waste Liner	5	7237-00
Inert Flow Control Valves	12	7425-00
Luer PTFE Stopcocks	12	7514-00
Luer PTFE Connectors (one-piece)	12	4586
Luer Locks (taps), Stainless Steel	12	4505
PTFE Lined Luer Locks (taps), Stainless Steel	12	4514



7241-00

2120-02

7426-00

7429-00

7437-00

7423-00

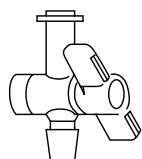
BAKER spe-24G Column Processor (7208-00)

BAKER spe-24G Column Processor

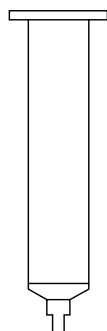
complete-includes: 1 glass vacuum chamber,
1 nylon cover with luer fitting connectors and
1 polyethylene gasket,

24 individual flow control polypropylene
stopcocks, 24 stainless steel needles, 1 sample
collection rack with 3 support posts, 3 height
adjustable shelves, 9 shelf support clips,
1 vacuum gauge/polypropylene controller
assembly, 1 instruction sheet, 1 BAKERBOND
spe Application Notes Manual.

Description	Quantity per box	Product Number
Extraction Column Processor replacement parts for BAKER spe-24G Column Processor		
Glass Vacuum Chamber	1	7423-00
Nylon Lid (with luer connectors)	1	7426-00
Polypropylene Rack Set	1	7429-00
Polyethylene Gasket Seals	2	7432-00
Neoprene Gasket Seals	2	7435-00
Polypropylene Replacement Needles	12	7436-00
Vacuum Gauge / Controller Assembly	1 assembly	7437-00
Plugs for Lid	30	7327-00
Polypropylene Stopcocks	10	7241-00
Polypropylene Luer Connector Female	12	2120-02
Polypropylene Luer Connector Male	12	2121-20
Stainless steel needles	12	7323-00
Accessories for BAKER spe-24G Column Processor		
Inert Flow Control Valves	12	7425-00
Luer PTFE Stopcocks	12	7514-00
Luer PTFE Connectors (one-piece)	12	4586
Luer Locks (taps), Stainless Steel	12	4505
PTFE Lined Luer Locks (taps), Stainless Steel	12	4514



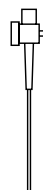
Stopcock
(7241-01)



Reservoir
(7119-01 or 7120-03)



Adapter
(7122-00)



Inert Flow
Control Valve
(7425-00)

Parts and accessories for 12 and 24 port processors

Analytical Methods

BAKERBOND Solid Phase Extraction Automation

J.T.Baker Speedisk 48 and 96

Positive-Pressure Processors

Positive-pressure processors have been shown to provide better reproducibility of results than vacuum manifolds. This is due in part to the constant applied pressure forcing the solvent through the sorbent in the columns. With vacuum manifolds, if a column runs dry, the flow of other columns will decrease, causing variability in the processing time, and ultimately, the analyte recovery. The positive-pressure processor gasket seals the column opening to prevent any crossover



between columns. Our processors are formatted for processing either 48 or 96 columns simultaneously and arrive complete with collection trays, sealing gasket, column holders, gas supply adapters, and tubing. Replacement parts and accessories for both processors are available as listed in the tables on the next page.

Speedisk 48 Positive Pressure Processor (8118-00)

- Twice the capacity of a typical vacuum processor
- Exceptional precision, control, and reliability
- Perfect for processing 1, 3 and 6 ml columns in batches of 1–48 samples
- It distributes N₂ or compressed air to displace liquid from SPE columns
- Easily enables a high level of control and precision



Speedisk 96 Positive Pressure Processor (8129-00)

- The Speedisk 96 Pressure Processor provides the means to batch process up to 96 solid phase extraction columns assembled to conform to the 96-well micro-plate footprint
- Higher pressure differentials are achievable to overcome resistance to flow caused by high viscosity
- The processor produces the same flow rate in each of 96 columns arrayed in the 8 x 12 micro-plate pattern

Description	Quantity per pack	Product Number
Accessories for Speedisk 48 Positive Pressure Processor¹		
Rack for 1 ml SPE Columns	1	8122-01
Rack for 3 ml SPE Columns	1	8123-01
Rack for 6 ml SPE Columns	1	8124-01
Collection Tube Rack, 12 x 75 mm Tubes	1	8119-01
Collection Tube Rack, 13 x 100 mm Tubes	1	8120-01
Collection Tube Rack, 16 x 100 mm Tubes	1	8121-01
Collection Vial Rack, 12 x 32 mm Auto-Sampler	1	8125-01
Waste Bin	1	8126-01
48-Column Sealing Gasket	1	8127-01
Gas Supply Adapter ²	1	8128-01

¹ Complete—Includes 3 ml SPE column rack, collection tube rack for 12 x 75 mm tubes, waste bin, gas supply adapter and tubing, 48-sealing gasket

² 6 ft. length of 1 D4" tubing and 1 D8"—1 D4" adapter fittings.

Description	Quantity per pack	Product Number
Accessories for Speedisk 96 Positive Pressure Processor¹		
10 ml x 24 Well Collection Tray	1	8197-24
1 ml x 96 Well Collection Tray	1	8188-96
2 ml x 96 Well Collection Tray	1	8131-96
Speedisk 96 Column Holder	1	8150-00
96-Column Sealing Gasket	1	8130-01
Gas Supply Adapter ²	1	8128-01

¹ Complete—includes 1 ml x 96 collection tray, 2 ml x 96 collection tray, 96-column sealing gasket, Speedisk 96 column holder, gas supply adapter and tubing.

² 6 ft. length of 1 D4" tubing and 1 D8"—1 D4" adapter fittings

Speedisk Expanded Extraction Station

Whatever your space and sample loading requirements, we have a vacuum extraction disk processor to meet your needs - *Speedisk* Expanded Extraction Station used in reservoir, inverted, or remote sample feed modes

The *Speedisk* Expanded Extraction Station includes a six-port vacuum manifold and the accessories needed to support the extraction of analyte by BAKERBOND *Speedisk* laminar extraction disks. The manifold has a rectangular footprint and inter-port spacing to accommodate six, side-by-side, 1 liter sample reservoirs. Each vacuum port has an individual open/close valve.



Description	Quantity per box	Product number
SPEEDISKS EXPANDED EXTRACTION STATION		
Six-port processing system for direct sample loading. Rectangular footprint and inter-port spacing to accommodate six side-by-side 1 l sample reservoirs. Includes: extraction station, 2 remote sample adapters, 2 collection chamber and 2 vials, 6 reservoirs of 185ml	1	8095-06
SPEEDISK ADAPTERS		
Remote sample adapter. For transfer of sample from remote container to <i>Speedisk</i> Disk	6	8099-06
Flask Adapter Single port with #8 stopper. Connection of disks to vacuum flask and many other vacuum manifolds (such as Nalge and Contes) Accepts disks or collection chamber	1	8070-01
Adapter ring for 40-35 tapered outer joint. Accepts disks or collection chamber	6	8100-06
SPEEDISK RESERVOIRS		
185 ml Reservoir. Holds inverted 1l reservoir or 185 ml sample	6	8097-06
1l Glass reservoir - 1 l sample reservoir, fits directly into a <i>Speedisk</i> extraction disk	1	8098-01
Collection chamber (includes sample vial)	2	8096-02
Collection vials (Sample vials)	100	8102-01
Sample tray - Holds up to four 1 l bottle at a tilt to ensure complete sample uptake by remote sample adapter suction tube	1	8101-01
70mm/ Mason Jar Adapter - Enables inverted feed directly to extraction disk from sample jar	4	8102-04

Analytical Methods

Spectrometry/Element Analysis

Spectrometry applications are common in many laboratories across many industries. UV/Visible spectrophotometry is routinely used in the quantitative determination of elements and certain organic compounds in samples. Typical applications for IR spectrophotometry are as diverse as pharmaceutical research, medical diagnostics, food and agrochemical quality control, and combustion research.

Avantor Performance Materials has a reputation for offering high-purity acids and solvents for spectrometry applications based on years of quality, consistency, and innovation. In the 1970s, Avantor introduced the purest acids in the world with the J.T.Baker ULTREX product line and today, the ULTREX II product line represents the best purity available. The J.T.Baker acid product lines include products with three distinct levels of

purity and characterization, allowing you to select the best value depending on your analysis. The three levels of acid purity are based on characterization of trace metals by flame atomic absorption and a product recommendation for usage is described below.

Our solvent lines continue to evolve with the technology, as shown by the recent introduction of J.T.Baker ULTRA LC/MS solvents designed specifically for use in UHPLC/MS applications.

We also offer a broad line of single element and multi-element standards for instrument calibration and standardization that are critical to spectrometry applications. Please see the Instrument Calibration and Standards section of this catalog starting on page 81 for more information about our standards.

Atomic Absorption Spectroscopy (AAS)

J.T.Baker BAKER ANALYZED ACS reagent grade of acids is recommended for qualitative AAS applications, as well as general use.

Purity and consistency are key requirements for all reagent chemicals, but they are especially important with acids used for trace metal analysis by Atomic Absorption. J.T.Baker BAKER ANALYZED ACS reagent grade of acids exceed American Chemical Society (ACS) specifications and are optimized for parts-per-million (ppm) detection of trace metals by flame atomic absorption. Wherever possible, products are packaged in poly or poly-coated glass bottles.



J.T.Baker BAKER ANALYZED ACS Reagents

Product	Product Number
Acetic Acid, Glacial	6052, 9508
Ammonium Hydroxide, 28.0–30.0%	6005
Formic Acid, 88%	0128
Hydrobromic Acid, 47–49%	6010
Hydrochloric Acid, 36.5–38.0%	9535
Hydrofluoric Acid, 48.0–51.0 %	6013
Hydrogen Peroxide, 30%	2186
Lactic Acid, 85%	6017
Nitric Acid, 69.0–70.0%	9601
Nitric Acid, Fuming, 90%	9624
Perchloric Acid, 69–72%	9652
Perchloric Acid, 60–62%	9656
Phosphoric Acid	0260
Sulfuric Acid	6027
Sulfurous Acid	6050

Inductively Coupled Plasma — Optical Emission Spectrometry (ICP-OES/AES)

J.T.Baker BAKER INSTRA-ANALYZED grade of acids is recommended for use in ICP-OES/AES applications.

ICP—OES/AES has become one of the standards in trace metal analysis techniques due to its excellent limits of detection and linear dynamic range, multi-element capability, and reproducibility. J.T.Baker BAKER INSTRA-ANALYZED acids were designed for routine trace metal analysis and EPA protocols by ICP-OES/AES. BAKER INSTRA-ANALYZED acids are analyzed for up to 35 metals in the low parts-per-billion (ppb) range.

J.T.Baker BAKER INSTRA-ANALYZED Reagents

Product	Product Number
Acetic Acid, Glacial	9524
Ammonium Hydroxide, 30%	6162
Hydrochloric Acid, 36.5–38.0%	9530
Hydrofluoric Acid	9563
Nitric Acid, 69.0–70.0%	9598
Perchloric Acid, 69–72%	9653
Sulfuric Acid	6163, 9673

Inductively Coupled Plasma — Mass Spectrometry (ICP-MS)

J.T.Baker ULTREX II grade is recommended for use in ICP-MS applications.

ICP-MS is highly sensitive and capable of the determination of a range of metals and several non-metals at very low (parts-per-trillion) concentrations. Unlike AAS, which can only measure a single element at a time, ICP-MS has the capability to scan for all elements simultaneously, allowing rapid sample processing.

J.T.Baker ULTREX II products are high-performance acids for your most demanding trace element analyses by ICP-MS, ICP-OES/AES and Graphite Furnace Atomic Absorption (GFAA). ULTREX II acids are analyzed for up to 65 trace elements in the ppt range, with



specifications of less than 10 ppt for 50 elements, and total element impurities that typically do not exceed 500 ppt. ULTREX II acids are packaged in inert, pre-leached fluoropolymer bottles under Class 100 environment to protect the purity of the acids.

J.T.Baker ULTREX II Acids

Product	Product Number
Acetic Acid, Glacial	6903
Ammonium Hydroxide, 20%	4807
Hydrochloric Acid	6900
Hydrofluoric Acid	6904
Hydrogen Peroxide, 30%	5155
Nitric Acid	6901
Perchloric Acid, 70%	4806
Phosphoric Acid	6908
Sulfuric Acid	6902
Water	6906
ULTREX Bottle-Top Dispenser	6910
ULTREX Dispenser Base	6912

Analytical Methods



ULTREX II Dispenser System

The J.T.Baker ULTREX II dispenser system was designed to reduce the risk of contamination and to maintain the purity of ULTREX II acids. The dispenser is made of Teflon PFA or TFM (modified PTFE) and it will eliminate leaching and airborne contamination, minimize waste and enhance safe handling of these acids. The dispenser is pre-cleaned to maintain <0.1 ppb metal blank levels in routine use. All wet parts are made with Teflon to maintain product purity and each unit comes with a PTFE air filter to reduce the risk of airborne contamination. The unit dispenses 0 to 5 ml in 0.5 ml increments with an accuracy of ± 0.02 ml (water at 20 °C) and a precision of $\pm 3\%$ at 3 ml.

J.T.Baker ULTREX II Dispenser System

ULTREX Dispenser Specifications

Volume:	0–5 ml in 0.5 ml increments
Accuracy:	± 0.02 ml (water at 20 °C)
Precision	$\pm 3\%$ at 3 ml

UV/Visible/IR Spectrophotometry

J.T.Baker PHOTREX grade solvents are recommended for use in UV, visible, and IR spectrometry applications.

The principle of spectrophotometry is fairly straightforward—that the identification and concentration of a species in solution can be determined by measuring the transmittance or absorbance of radiation passed through the solution. A simple concept, but to make it work, you need a solvent that doesn't interfere with the measurement at the specific wavelength being measured.

Avantor Performance Materials solvents for spectrometry are manufactured to minimize lot-to-lot variability and contaminants that can interfere with UV, and in some cases IR, spectra, including residue after evaporation, and acid and base concentrations. Function testing confirms maximum absorbance in selected wavelengths, and for PHOTREX solvents, 50% to 100% transmittance windows in IR wavelengths are reported.

Fluorescence Spectrophotometry

J.T.Baker HPLC and LC/MS solvents are recommended for use in fluorescence spectrophotometry applications.

Fluorescence spectrophotometry applications have expanded rapidly in areas as diverse as trace metal analysis, environmental applications, and medicine. Fluorescence spectrophotometry has some significant advantages over absorption spectroscopy, including that two wavelengths (excitation and emission) are used, that the technique by its nature has a low signal to noise ratio, and that fluorescence methods have linearity over a broader range. These advantages make the sensitivity of fluorescence spectrophotometry much greater than absorption spectrophotometry. Also, many more compounds exhibit UV absorption than strong fluorescence, making fluorescence much more selective.

Fluorescence spectrophotometry techniques are very sensitive to pH changes, and any suspended particles can cause false signals due to light scattering. Interference by contamination of trace levels of organic chemicals require that the highest quality solvents be used.

Avantor offers a range of products for use in fluorescence spectrophotometry applications. J.T.Baker HPLC solvents are controlled for high assay and low UV absorption, fluorescence, residue, and water. Selected J.T.Baker LC/MS solvents are also controlled for fluorescence and residue and are filtered through a 0.2 μ m filter. For more information on these products, please see the Analytical Chromatography section of this catalog starting on page 23.

J.T.Baker Spectrophotometry Solvents

Product	Product Number
Acetone	8001
Alcohol, Anhydrous, Reagent	8098
1-Butanol	9189
n-Butyl Acetate	8283
Chloroform	7019
1,2-Dichloroethane	8707
Dichloromethane	7399
Dimethyl Sulfoxide	7093
Dimethylformamide	7400
Methanol, Absolute	8046
Methyl iso-Butyl Ketone	8224
Paraffin Oil	9388
Petroleum Ether, 35–60 °C	9270
2-Propanol	8068
Tetrachloroethylene	9218
Toluene	8714
2,2,4-Trimethylpentane	8715
Xylenes	9516

Wet Chemical Analysis

Wet chemical analysis refers to classical chemistry based analytical methods that exclude the use of instrumentation. These methods are generally done in the liquid phase using relatively larger quantities of reagents than required by many instrumental techniques. Many wet chemical analysis applications are widely used today across all types of industries and have been effectively automated and computerized for efficiency.

J.T.Baker offers a broad range of general reagents and specialty products for use in wet chemical analysis applications. Our products are sometimes designed with a specific application in mind, such as Karl Fischer titrations. Other products take a more generalized approach, such as our volumetric solutions, which aren't for a specific application, but are traceable to NIST standards to assure reliability in all applications. Whatever your wet chemistry application, you can have confidence that J.T.Baker brand products are of the highest purity and lot-to-lot consistency, and are among the finest chemicals available for wet chemical analysis in the market today.

Water Determination (Karl Fischer)

Water determination by Karl Fischer titration is a technique used in many industries in both research and quality control applications. The Karl Fischer method has several major advantages over alternative methods, including speed, accuracy, and reliability. The method is highly selective for water, requires small sample sizes, has a short analysis time, and is suitable for automation.



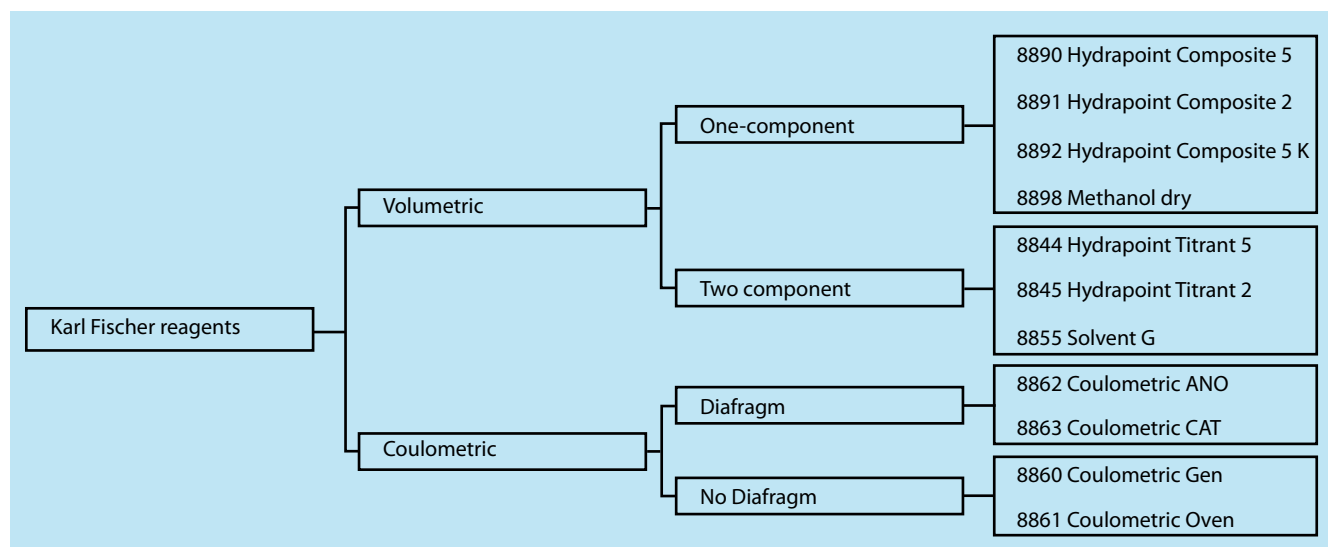
The J.T.Baker HYDRA-POINT product line was developed with a pyridine-free formulation specifically for use in Karl Fischer volumetric and coulometric titrations. In comparison studies with other brands of Karl Fischer Reagents, HYDRA-POINT titers have been shown to be more stable and have less drift, helping to save time and reduce reagent usage.

HYDRA-POINT Karl Fischer Reagents

J.T.Baker HYDRA-POINT Karl Fischer reagents make water determination easy and trouble-free. Products are formulated to give you consistent and reliable results for all types of samples. HYDRA-POINT products reach endpoint quickly, accurately, and with reproducibility, allowing you to perform more titrations in less time.

Volumetric Reagents

HYDRA-POINT volumetric reagents are pyridine-free, eliminating the hazards and unpleasant odor of pyridine-based solvents in the laboratory. These products are available as two-component systems with the reactants in two separate solutions, or as a



Analytical Methods

one-component system where all reactants are in a single reagent, and the sample is placed in a methanol solution. We also offer dry methanol and a buffer solution for use in volumetric determinations.

Coulometric Reagents

HYDRA-POINT coulometric reagents are designed to deliver faster analyses, lower detection limits, and increased accuracy. These products feature lower background noise that gives a better signal/noise ratio, resulting in a significant increase in the lower detection limit—to as low as 1 ppm. High imidazole concentration assures faster reaction kinetics, and therefore faster analyses. HYDRA-POINT coulometric Gen and Oven reagents are also halogen-free to help protect the environment.

Titrimetry

Titrimetry, also known as titration or volumetric analysis, is a common laboratory method of quantitative chemical analysis. In



this method, measured volumes of a titrant are added to a vial containing a known reactant to determine the concentration of the reactant. The endpoint of the reaction can be determined by color change, pH change, precipitation, or a variety of other means.

J.T.Baker offers a range of products for

titrimetric applications, including volumetric solutions that are traceable to NIST, volumetric concentrates that are diluted to create fresh standard solutions, primary standards, indicators, and general ACS reagents that are suitable for use in testing products using USP/NF or PhEur monographs.

J.T.Baker Titrimetry Products

Product	Product Number	Product	Product Number
Ammonium Thiocyanate, 0.1N Volumetric Solution	7122	Iodine (Iodine-Iodide), 1N Volumetric Solution	7577
Ammonium Thiocyanate, 0.1N DILUT-IT	4650	Nitric Acid, 0.1N Volumetric Solution	5600
Bromine (Bromide-Bromate), 0.1N Volumetric Solution	7123	Nitric Acid, 2N Volumetric Solution	7119
Bromine (Bromide-Bromate), 0.1N DILUT-IT	4708	Oxalic Acid, 0.1N Volumetric Solution	7141
Ceric Sulfate, 0.1N Volumetric Solution	5626	Oxalic Acid, DILUT-IT Analytical Concentrate, 0.1N	4665
Ceric Sulfate, 0.1N DILUT-IT	7114	Perchloric Acid, 0.1N in Glacial Acetic Acid Volumetric Solution	7142
EDTA Standard Solution (1 ml = 1 mg CaCO ₃)	5648	Potassium Bromate, 0.1N Volumetric Solution	7133
EDTA, Disodium Salt, Dihydrate, 0.1M Volumetric Solution	7124	Potassium Bromate, 0.1N DILUT-IT	7133
EDTA, Disodium Salt, DILUT-IT Analytical Concentrate, 0.1M	4871	Potassium Hydroxide, 0.1N in Ethanol Volumetric Solution	7132
Fehling's Solution (A), T.S.	7478	Potassium Hydroxide, 0.1N in Methanol Volumetric Solution	7045
Fehling's Solution (B), T.S.	7479	Potassium Hydroxide, 0.1N Volumetric Solution	7130
Hydrochloric Acid, 0.01N Volumetric Solution	5611	Potassium Hydroxide, 0.5N in Ethanol Volumetric Solution	7131
Hydrochloric Acid, 0.02N Volumetric Solution	5614	Potassium Hydroxide, 0.5N in Methanol Volumetric Solution	7121
Hydrochloric Acid, 0.1N Volumetric Solution	5621	Potassium Hydroxide, 1N Volumetric Solution	7129
Hydrochloric Acid, 0.2N Volumetric Solution	7651	Potassium Hydroxide, DILUT-IT Analytical Concentrate, 0.1N	4673
Hydrochloric Acid, 0.5N Volumetric Solution	7111	Potassium Hydroxide, DILUT-IT Analytical Concentrate, 1N	4674
Hydrochloric Acid, 1N Volumetric Solution	7088	Potassium Iodate, DILUT-IT Analytical Concentrate, 0.1N	4676
Hydrochloric Acid, 2N Volumetric Solution	7230	Silver Nitrate Standard Solution (1 ml = 1 mg Chloride)	5652
Hydrochloric Acid, 6N Volumetric Solution	7710	Silver Nitrate Standard Solution (1 ml = 1 mg Chloride)	5652
Hydrochloric Acid, DILUT-IT Analytical Concentrate, 0.1N	4655	Silver Nitrate, 0.1 N Volumetric Solution	5630
Hydrochloric Acid, DILUT-IT Analytical Concentrate, 0.5N	4654	Silver Nitrate, DILUT-IT Analytical Concentrate, 0.1N	4681
Hydrochloric Acid, DILUT-IT Analytical Concentrate, 1N	4657	Sodium Carbonate, 1N Volumetric Solution	5646
Iodine (Iodine-Iodide), 0.1N Volumetric Solution	7210	Sodium Carbonate, DILUT-IT Analytical Concentrate, 0.1N	4683

J.T.Baker Titrimetry Products

Product	Product Number	Product	Product Number
Sodium Chloride, DILUT-IT Analytical Concentrate, 0.1N	4684	Sodium Hydroxide, DILUT-IT Analytical Concentrate, 1N	4689
Sodium Hydroxide, 0.02N Volumetric Solution	7099	Sodium Hydroxide, DILUT-IT Analytical Concentrate, 5N	4690
Sodium Hydroxide, 0.05N Volumetric Solution	7480	Sodium Thiosulfate, 0.1N Volumetric Solution	7101
Sodium Hydroxide, 0.1N Volumetric Solution	7098	Sodium Thiosulfate, 1N Volumetric Solution	7100
Sodium Hydroxide, 0.25N Volumetric Solution	7112	Sodium Thiosulfate, DILUT-IT Analytical Concentrate, 0.01N	4693
Sodium Hydroxide, 0.2N Volumetric Solution	7216	Sodium Thiosulfate, DILUT-IT Analytical Concentrate, 0.1N	4695
Sodium Hydroxide, 0.5N Volumetric Solution	7105	Sulfuric Acid, 0.02N Volumetric Solution	5693
Sodium Hydroxide, 10N Volumetric Solution	5674	Sulfuric Acid, 0.125N Volumetric Solution	5692
Sodium Hydroxide, 1N Volumetric Solution	7097	Sulfuric Acid, 0.1N Volumetric Solution	7103
Sodium Hydroxide, 2.5N Volumetric Solution	5666	Sulfuric Acid, 0.2N Volumetric Solution	7215
Sodium Hydroxide, 25% (w/w) Solution	5661	Sulfuric Acid, 0.5N Volumetric Solution	5640
Sodium Hydroxide, 2N Volumetric Solution	7036	Sulfuric Acid, 1N Volumetric Solution	7102
Sodium Hydroxide, 5N Volumetric Solution	5671	Sulfuric Acid, 5N Volumetric Solution	5691
Sodium Hydroxide, 6N Volumetric Solution	5672	Sulfuric Acid, DILUT-IT Analytical Concentrate, 0.02N	4704
Sodium Hydroxide, DILUT-IT Analytical Concentrate, 0.02N	4715	Sulfuric Acid, DILUT-IT Analytical Concentrate, 0.1N	4699
Sodium Hydroxide, DILUT-IT Analytical Concentrate, 0.1N	4687	Sulfuric Acid, DILUT-IT Analytical Concentrate, 1N	4700
Sodium Hydroxide, DILUT-IT Analytical Concentrate, 0.5N	4691		

pH Measurement

Control of pH is an essential prerequisite of many analytical procedures used in laboratories, since many chemical reactions are pH-dependent. Therefore consistent buffer quality is very important. J.T.Baker offers prepared pH buffer solutions and J.T.Baker DILUT-IT buffer concentrates that make it easy to prepare fresh solutions whenever needed.

pH Buffer Solutions and Concentrates

You can eliminate the time and expense of preparing and standardizing solutions with our pH buffer solutions and concentrates. J.T.Baker buffer solutions are manufactured in large lots certified traceable to NIST Standard Reference Buffers. Solutions are available in clear and color-coded versions in a variety of sizes. J.T.Baker DILUT-IT buffer concentrates make it easy to create fresh solutions whenever needed by diluting the ampoule contents with water to a volume of 500 ml. Diluted solutions are accurate to ± 0.01 pH units.

J.T.Baker DILUT-IT Buffer Concentrates

Description	Size	Product Number
Buffer Solution Biphthalate, pH 4	Ampoule for dilution to 500 ml	4795
Buffer Solution Biphthalate, pH 4 Color coded	Ampoule for dilution to 500 ml	4860
Buffer Solution Phosphate, pH 7	Ampoule for dilution to 500 ml	4796
Buffer Solution Phosphate, pH 7 Color coded	Ampoule for dilution to 500 ml	4861
Buffer Concentrate Carbonate, pH 10	Ampoule for dilution to 500 ml	4797
Buffer Concentrate Carbonate, pH 10 Color coded	Ampoule for dilution to 500 ml	4862

J.T.Baker pH Buffer Solutions

Description	Product Number
Buffer Solution (Biphthalate), pH 4	5657
Buffer Solution (Biphthalate), pH 4 (Color-coded Red)	5654
Buffer Solution (Phosphate), pH 7	5656
Buffer Solution (Phosphate), pH 7 (Color-coded Yellow)	5653
Buffer Solution (Borate), pH 10	5655
Buffer Solution (Borate), pH 10 (Color-coded Blue)	5651

Analytical Methods

Other Wet Chemical Analyses

J.T.Baker offers a broad line of reagents for other wet chemical analysis methods, such as gravimetry, anion/cation determination, alkalinity, and others. J.T.Baker reagents are the high characterized brand with quality products for the most demanding applications. Whichever brand you choose, you'll find

that you're buying a product that Avantor Performance Materials stands behind with over 100 years of experience, service, and dedication to providing the finest quality products available to the chemical marketplace.

For the most current product specifications, packaging, and prices, please visit our website at www.avantormaterials.com. Please

contact our Customer Service department at 0031 570 687500 if you need additional information about our products or services.



Products by Application

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Products by Application

Life Sciences

Drug Discovery

Bioreagents for Molecular Biology Applications

The J.T.Baker line of ULTRAPURE BIOREAGENTS delivers crucial parameters to molecular biologists, including assay purity ranging from 98% to above 99.9%, with no detectable DNase, RNase and Protease, low heavy metal content, and low insolubles.

ULTRAPURE BIOREAGENT biological buffers are non-toxic to cells and are not absorbed through cell membranes. Due to their zwitterionic nature, they contribute negligible

ionic strength while providing high buffering capacity. These products feature high assay, low insolubles, and the absence of DNase, RNase and protease. These products are also designed to make your workflow as efficient and reliable as possible.

New products and additional specifications are being added to this product group due to the rapidly changing requirements of the market. For the most current product specifications, packaging, and prices, please visit our web site at www.avantormaterials.com



J.T.Baker ULTRAPURE BIOREAGENTS

Product	Product Number	Product	Product Number
Acrylamide	4081	Magnesium Chloride, 6-Hydrate, Crystal	4003
Acrylamide/Bis, 37.5:1, 40% Solution	4970	2-Mercaptoethanol	4049
Acrylamide/Bis, 29:1, 40% Solution	4969	MES, Monohydrate, Free Acid, Crystalline	4014
Acrylamide/Bis, 19:1, 40% Solution	4968	N,N'-Methylenebisacrylamide	4031
8% Premix Acrylamide Solution	4170	MOPS	4004
6% Premix Acrylamide Solution	4169	MOPS, Sodium Salt	4163
Agarose, Low Melting	4090	Phenol, White Fused Crystal	4056
Agarose, PFGE	4063	PIPES	4265
Agarose, Standard, Low Electroendosmosis (EEO)	A426	PIPES, Sodium Salt	4266
Ammonium Sulfate	4027	Potassium Acetate, Crystal	2915
Boric Acid, Granular	4035	Potassium Chloride, Crystal	4001
CAPS	4118	Potassium Phosphate, Monobasic, Crystal	4008
Cesium Chloride	4042	Potassium Phosphate, Dibasic, Powder	4012
CHAPS	4145	Sodium Acetate, Trihydrate, Crystal	4009
CHES	4146	Sodium Chloride, Crystal	4058
CHES, Sodium Salt	4147	Sodium Citrate, Dihydrate, Granular	4093
1,4-Dithiothreitol (DTT, Cleland's Reagent)	F780	Sodium Dodecyl Sulfate (SDS)	4095
EDTA, Disodium Salt, Dihydrate, Crystal	4040	Sodium Phosphate, Monobasic, Monohydrate, Crystal	4011
Ethidium Bromide	4007	Sodium Phosphate, Dibasic, Anhydrous, Powder	4062
Formamide	4028	Sucrose	4097
Glycerol, Anhydrous	4043	TEMED	4098
Glycine	4059	TRIS (Base)	4109
HEPES, Free Acid	4018	TRIS Hydrochloride	4103
HEPES, Sodium Salt	4153	Urea	4111
Lithium Chloride, Granular	4002	Water, Sterile	4221

For product specifications, packaging, and prices, please see the J.T.Baker brand A to Z section (pages 91-405) of this catalog or visit our web site at www.avantormaterials.com

Products By Application

ULTRAPURE Biological Buffer Selection Guide for Molecular Biology Applications

Description	pKa @25 °C	$\Delta pK_a/\Delta T(^{\circ}C)$	pH Range	Product Number
CAPS, ULTRAPURE BIOREAGENT	10.4	-0.018	9.7–11.1	4118
CHES, ULTRAPURE BIOREAGENT	9.3	-0.018	8.6–10.0	4146
CHES, Sodium Salt, ULTRAPURE BIOREAGENT	9.3	-0.018	8.6–10.0	4147
HEPES, Free Acid, ULTRAPURE BIOREAGENT	7.5	-0.014	6.8–8.2	4018
HEPES, Sodium Salt, ULTRAPURE BIOREAGENT	7.5	-0.014	6.8–8.2	4153
MES, Monohydrate, Free Acid, Crystalline, ULTRAPURE BIOREAGENT	6.1	-0.011	5.5–6.7	4014
MOPS, ULTRAPURE BIOREAGENT	7.2	-0.011	6.5–7.9	4004
MOPS, Sodium Salt, ULTRAPURE BIOREAGENT	7.2	-0.011	6.5–7.9	4163
PIPES, ULTRAPURE BIOREAGENT	6.8	-0.0085	6.1–7.5	4265
PIPES, Sodium Salt, ULTRAPURE BIOREAGENT	6.8	-0.0085	6.1–7.5	4266
Tris, ULTRAPURE BIOREAGENT	8.1	-0.028	7.0–9.0	4109
Tris Hydrochloride, ULTRAPURE BIOREAGENT	8.1	-0.028	7.0–9.0	4103

For product specifications, packaging, and prices, please see the J.T.Baker brand A to Z section (pages 91–405) of this catalog or visit our web site at www.avantormaterials.com



Solvents for Biotechnology Applications

Product	Specification	Product Number
Acetonitrile	Water $\leq$ 30 ppm	8144
Acetonitrile, Low Water	Water $\leq$ 10 ppm	9018
Acetonitrile, Ultra Low Water	Water $\leq$ 5 ppm	9019
Dichloromethane	Water $\leq$ 30 ppm; Acidity $\leq$ 0.0001 meq/g	9316
Dichloromethane	Water $\leq$ 100 ppm; Acidity $\leq$ 0.0003 meq/g	9348
Dimethylformamide (DMF)	Amines $\leq$ 5 ppm, Water $\leq$ 400ppm	9344
Methanol	Water $\leq$ 50 ppm	9098, 9091
1-Methyl-2-pyrrolidinone (NMP)	Amines $\leq$ 0.01%, Water $\leq$ 200 ppm	9261, 9345
Pyridine, Low Water	Water $\leq$ 100 ppm	9393
Tetrahydrofuran, Low Water (contains no preservative)	Water $\leq$ 50 ppm, Peroxide $\leq$ 10 ppm	9439
Triethylamine	Water $\leq$ 0.10%	9111

DNA and Peptide Synthesis

J.T.Baker BIO-ANALYZED solvents are specifically designed, manufactured, and tested to maximize coupling efficiencies and deliver the highest yields in synthesis applications. These solvents are purified and distilled to control amine, acid, base, and residue after evaporation levels, which can limit yields and coupling efficiencies. They are dried to produce the lowest water levels in the industry. Extensive testing for important contaminants, including peroxides, ensures optimum performance and consistency. Packaging is done in closed systems blanketed with inert gas to ensure the highest quality and lowest water content right to the point of use.

Reagents for DNA/RNA Synthesis

Product	Specification	Product Number	Product	Specification	Product Number
ACTIVATOR ETT	Water $\leq$ 50 ppm; Molarity (5-Ethylthio-1H-Tetrazole) 0.28–0.32	9478	DEBLOCK TCA-DCM	Water $\leq$ 150 ppm	9448
ACTIVATOR DCI	Water $\leq$ 30 ppm; Molarity (Dicyano-imidazole) 0.24–0.26	9479	DEBLOCK TCA-DCE	Water $\leq$ 100 ppm	9449
CAPPING A	Pyridine 9.0–11.0% (v/v); Acetic anhydride 9.0–11.0% (v/v);	9497	DEBLOCK-TCA	Water $\leq$ 150 ppm	9451
CAPPING A	Acetic anhydride 8.2–10.0% (v/v);	9510	DEBLOCK-DCA	Water $\leq$ 150 ppm	9518
CAPPING B	1-Methylimidazole 15.2–16.8% (v/v);	9485	OXIDIZING	Pyridine 18.5–21.0% (v/v);	9488
CAPPING B	1-Methylimidazole 9.5–10.5% (v/v); Pyridine 9.5–10.5% (v/v);	9512	OXIDIZING	Iodine 3.87–4.73 g/L; Iodine 0.015–0.019 mol/L	9519

Most solvents are available in the CYCLE-TAINER solvent delivery system. For additional anhydrous solvents with low water levels, see the BakerDRY anhydrous solvent line.

Organic Synthesis or Other Moisture Sensitive Reactions

Many laboratories would like to eliminate the potentially hazardous, costly, and time-consuming purification operations needed to prepare solvents for moisture-sensitive applications such as organic synthesis. J.T.Baker BakerDRY low-water solvents are manufactured to deliver low-levels of water, dissolved oxygen, and maintain less than 10 ppm peroxides, while meeting ACS specifications for reagent chemicals. Solvents arrive ready-to-use in your application without further purification.

Most BakerDRY solvents contain no preservatives, which could interfere with synthesis reactions. Products are packaged in 100 ml or 1 l septum-seal bottles or our CYCLE TAINER solvent delivery system for repeated use, while minimizing the introduction of contaminants.



Biological Stains and Dyes

J.T.Baker and Avantor Performance Materials stains and dyes include stains for molecular biology and microbiology applications. Avantor Certified OR stains are certified by the Biological Stain Commission.

BakerDRY Anhydrous Solvents

Product	Water content	Product Number
Acetonitrile	10 ppm	9035
BIS (2-methoxyethyl) Ether (Diglyme)	50 ppm	9296
Dimethylformamide	20 ppm	9213
Ether (contains no preservative)	10 ppm	9250
Heptane	20 ppm	9365
Hexanes	20 ppm	9277
Methanol	30 ppm	9097
Methylene Chloride(contains Cyclohexane)	60 ppm	9295
Tetrahydrofuran(contains no preservative)	10 ppm	9446
Tetrahydrofuran(contains BHT)	10 ppm	9447
Toluene	10 ppm	9364

Most solvents are available in the CYCLE-TAINER solvent delivery system

J.T.Baker Stains and Dyes

Description	Use	Product Number
Acid Fuchsin	Histology stain	1420
Alizarin Red S	Histology stain	1471
Amido Black 10 B	Protein stain	A586
Aniline Blue WS	Histology stain	on request
Auramine O	Fluorescence microscopy stain	on request
Basic Fuchsin Hydrochloride	Histology and bacteriology stain	on request
Biebrich Scarlet, Water Soluble	Histology stain	on request
Bismarck Brown Y	Histology and bacteriology stain	on request
Coomassie Blue G-250	Protein staining after electrophoretic separation	1473
Coomassie Blue R-250	Protein staining after electrophoretic separation	1474
Crystal Violet	Gram staining	1065
Erythrosin B	Histology stain	on request
Eosin B	Histology stain	L083
Eosin Y	Histology and blood stain	1303
Ethidium Bromide	Nucleic acids	4007
Fast Green FCF	Protein stain	1476
Giemsa Stain	Blood stain	on request
Hematoxylin	Histology and cytology stain	on request
Light Green SF Yellowish	Histology and cytology stain	on request
Malachite Green Oxalate	Histology and bacteriology stain	1325
Methylene Blue	Histology, bacteriology, and blood stain. DNA Staining after electrophoretic separation	1329
Neutral Red	Supravital staining	on request
New Methylene Blue N, Brecher Formula	Reticulocyte staining	on request
Orange G	Histology stain	on request
Phloxine B	Histology stain	1468
Rhodamine B	Fluorescence microscopy, Conjugation to antibodies	1389
Safranin O	Histology, cytology, and bacteriology staining	on request
Wright's Stain	Blood stain	on request

Products By Application

Electrophoresis Gel Products and Chemicals ExplorER, Agarose, and Acrylamide Gels

J.T.Baker ULTRAPURE BIOREAGENT are recommended for use in Electrophoresis applications.

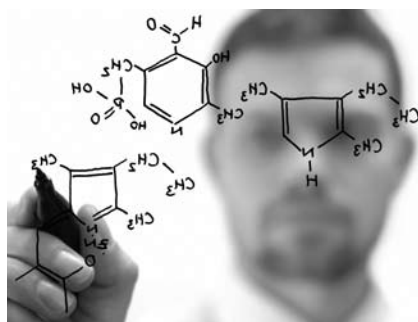
Avantor Performance Materials offers a high performance family of J.T.Baker products for fast, high resolution separations of nucleic acids and proteins. ExplorER gel solution is a special matrix designed for superior separation of DNA sequencing products, low molecular weight DNA, and proteins. ExplorER gels consist of a blend of modified acrylamides and a novel crosslinker that provides extended reads for DNA sequencing applications of up to 40%. These gels resist tearing, and when used with Silver Stain, provide virtually no background.

ExplorER gel solution is available as a 40% concentrate or in convenient 6% and 8% PreMix solutions containing 7M urea and 1X TBE. With the PreMix form, you simply add ammonium persulfate and TEMED to the bottle, mix and pour the gel—the ultimate in convenience for busy sequencing labs.

We also offer five types of Agarose designed for various electrophoresis applications. See the below chart for information on the use and characteristics of these products.

Our prepared acrylamide solutions can eliminate the hazards associated with the neurotoxic dust of acrylamide powder. These solutions are available as 40% mixtures of acrylamide/bis in ratios of 37.5 to 1, 29 to 1, and 19 to 1.

See the above chart for typical applications and information about our products for Electrophoresis



Electrophoresis Products—Typical Applications

	Gels	Chemicals	Stains
DNA Sequencing	PreMix Acrylamide/Bis, 6%, 8%; 40% Acrylamide/Bis Solution 19:1; ExplorER Gel Solution	APS; TEMED; Urea; Formamide; SafetyCoat	—
Nucleic Acid Analysis	40% Acrylamide/Bis Solution 19:1	APS; TEMED; Urea; SafetyCoat	Ethidium Bromide
PCR Fragment Analysis	Agarose	—	Ethidium Bromide
DNA Fragment Analysis	40% Acrylamide/Bis Solution 29:1	APS; TEMED	Ethidium Bromide
Restriction Fragment Analysis	Agarose; Agarose Low Melting; Agarose for Northern and Southern Blotting	—	Ethidium Bromide
Blotting	Agarose for Northern and Southern Blotting	—	—
Pulsed Field Gel Electrophoresis	Agarose for PFGE Analysis	—	—
Protein Separations	40% Acrylamide/Bis Solution 37.5:1	APS; TEMED	Coomassie Brilliant Blue, G-250

For product specifications, packaging, and prices, please see the J.T.Baker brand A to Z section (pages 91-405) of this catalog or visit our web site at www.avantormaterials.com

Agarose Product Information

	A426	4090	4063
Use	Routine Nucleic Acid & Protein Electrophoresis, Blotting	Low Melting for DNA & RNA Recovery	Pulsed Field Gel Electrophoresis, Rapid Runs
Application	Analytical	Preparative	Analytical
Separation Range	>1 kb	>1 kb	1 kb–2 mb
Grade	Biochemical Reagent	ULTRAPURE BIOREAGENT	ULTRAPURE BIOREAGENT
Melting Temp.	N/A	<65 °C @ 1.5%	N/A
Gelling Temp.	35.5–36.5 °C	26–30 °C @ 1.5%	41–43 °C
Moisture	<10%	<10%	<7.0%
Sulfate	<0.35%	<0.10%	<0.20%
EE0 (–mr)	0.10–0.15	<0.10	0.04–0.08
Gel Strength @ 1% (g/cm ²)	>800	>200	>2,000
DNase and RNase Activity	N/A	None Detected	None Detected

For product specifications, packaging, and prices, please see the A to Z section (pages 91-405) of this catalog or visit our web site at www.avantormaterials.com

J.T.Baker Acrylamide and ExplorER Gels

Description	Product Number
Acrylamide Powder and Solutions	
Acrylamide	4081
Acrylamide Solution, 8% Premix	4170
Acrylamide/Bis, 19:1, 40% Solution	4968
Acrylamide/Bis, 29:1, 40% Solution	4969
Acrylamide/Bis, 37.5:1, 40% Solution	4970
ExplorER Gel Products	
ExplorER Gel Solution 40% Concentrate	4015
6% PreMix ExplorER Gel Solution	4019
8% PreMix ExplorER Gel Solution	4020

For product specifications, packaging, and prices, please see the J.T.Baker brand A to Z section (pages 91-405) of this catalog or visit our web site at www.avantormaterials.com

Stains, Tracking Dyes, and SafetyCoat

In addition to gel products, we offer a variety of stains and tracking dyes for use with electrophoresis gels.

SafetyCoat non-toxic glass plate coating is an alternative to typical silanizing reagents, which are toxic, highly flammable, and require

handling in a fume hood. SafetyCoat prevents gels from sticking to the treated surface when the plates are separated. The product may be applied safely at the bench and a single application lasts for several electrophoresis runs. SafetyCoat may also be used for coating microfuge tubes and other surfaces.



Stains, Tracking Dyes, and SafetyCoat

Description	Grade	Product Number
Stains		
Coomassie Blue G-250	Baker	1473
Coomassie Blue R-250	Baker	1474
Ethidium Bromide	ULTRAPURE BIOREAGENT	4007
Methylene Blue	BAKER ANALYZED Reagent	1329
Electrophoresis Tracking Dyes		
Bromocresol Green	BAKER ANALYZED ACS Reagent	1511
Bromophenol Blue	BAKER ANALYZED ACS Reagent	1369
Bromophenol Blue, Sodium Salt	BAKER ANALYZED ACS Reagent	on request
Methyl Red Hydrochloride	BAKER ANALYZED ACS Reagent	on request
Methyl Red Sodium Salt	BAKER ANALYZED ACS Reagent	on request
SafetyCoat		
SafetyCoat Non-toxic Glass Plate Coating	ULTRAPURE BIOREAGENT	4017

For product specifications, packaging, and prices, please see the J.T.Baker brand A to Z section (pages 91-405) of this catalog or visit our web site at www.avantormaterials.com

Products for Sample Analysis and Other Products for Drug Discovery

In addition to the products shown above, J.T.Baker offers a wide range of products that are suitable for and used in the area of Drug Discovery. These products include a wide array of high purity solvents that are optimized for use on cutting edge instrumentation and are detailed in other sections of this catalog. The table below identifies these products and the location where full details of the product line can be found in this catalog.

Products for Drug Discovery Sample Analysis

Product Line	Full Description Location
HPLC Solvents	Analytical Chromatography section starting on page 23
LC/MS Solvents	Analytical Chromatography section starting on page 23
UHPLC Solvents	Analytical Chromatography section starting on page 23
HPLC Columns	Analytical Chromatography section starting on page 23
Standards	Instrument Calibration and Standards section starting on page 81
GC Solvents	Analytical Chromatography section starting on page 23
Solid Phase Extraction	Analytical Chromatography section starting on page 23

Products By Application

Drug Development and Manufacturing

Avantor Performance Materials is an established global supplier of production chemicals, bulk pharmaceutical excipients, and purification products to pharmaceutical and biopharmaceutical companies. As a partner who understands our customers' needs for reliable quality, product consistency, and increasing regulatory support, we offer a broad range of performance enabling products that are suitable for use from pre-clinical to commercialization.

With our FDA-registered* manufacturing facilities, cGMP compliant quality systems, and experienced team of experts, Avantor is committed to being a valued global supplier of high purity products for drug development and manufacturing. Our Beaker to Bulk packaging flexibility offers ease and speed of scale-up by providing identical product in sizes appropriate for the laboratory, pilot plant, or full scale manufacturing. As our product lines continue to expand, we are here to enable our customers with product development speed, risk mitigation, and the assurance of regulatory compliance.

*Registration does not denote FDA approval of a firm or its products.

Pharmaceutical Applications

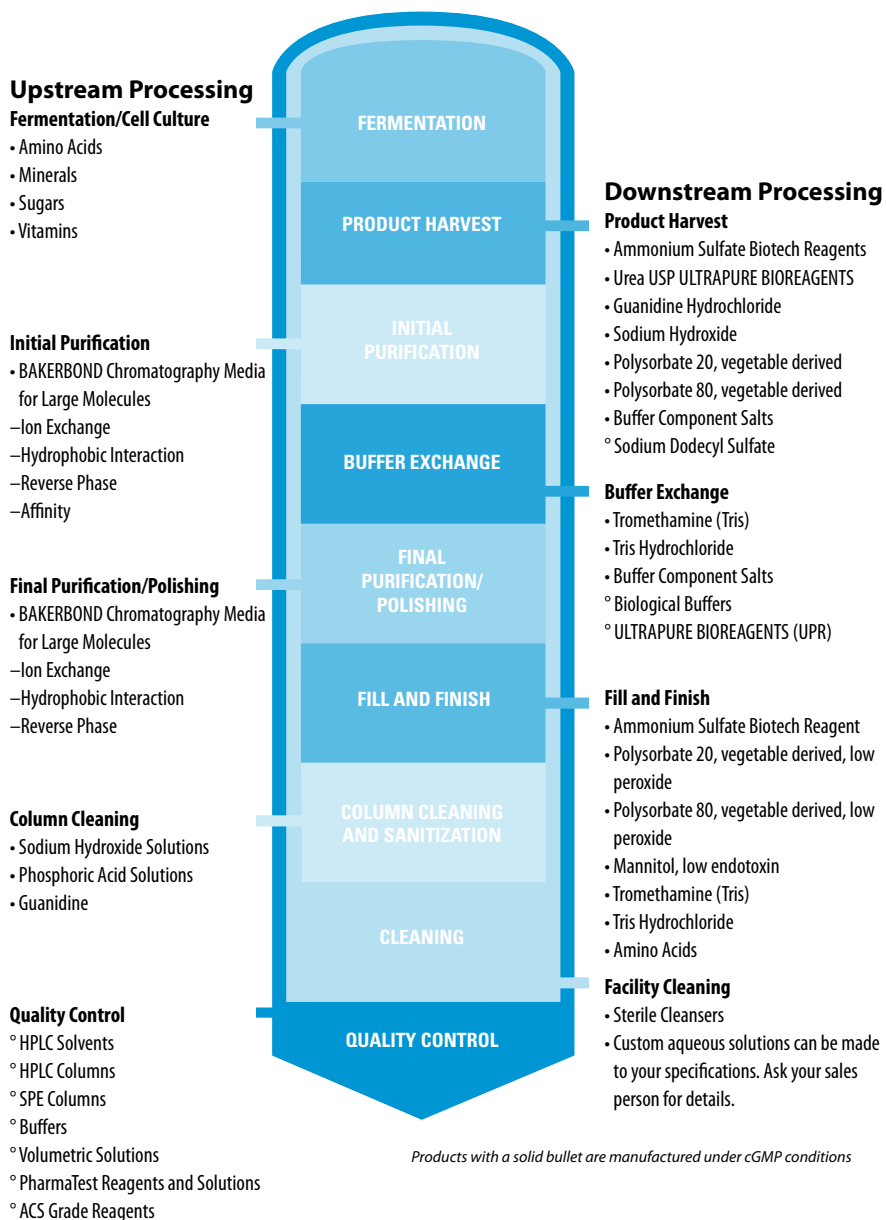
Avantor is an established global supplier of critical performance chemicals with over 150 years of expertise in bulk pharmaceutical development and manufacturing. We manufacture and supply acids, solvents, salts, and solutions for various pharmaceutical applications. Our expertise in surface chemistry and crystal morphology helps our pharmaceutical customers optimize chemicals for demanding performance applications to improve manufacturing efficiency and speed to market. From operational excellence tools like Six Sigma and Lean Manufacturing to risk mitigation strategies such as our Management of Change program, Avantor is uniquely positioned to provide pharmaceutical customers with the systems, products, and tools they need to stay ahead of the competition.



Formulation

Formulation is the process in which excipients and other chemical substances are combined to produce a final medicinal product or drug. Excipients facilitate formulation design and perform a wide variety of functions to achieve the desired properties for the finished drug product. The choice of the right excipients is critical to the final product's effectiveness, as well as its cost and time to market. Avantor Performance Materials offers products that can help in this stage of the manufacturing process.

Products Avantor supplies for Biopharmaceutical processes



Excipients

Avantor excipients are used during the formulation process in a wide range of applications. Avantor provides high purity and performance excipients that serve as fillers, binders, disintegrants, lubricants, flavors, emulsifiers, and preservatives. All the products are cGMP-produced and meet USP grade standards. For production chemicals, bulk pharmaceutical excipients and purification products please contact Avantor at avantor.emea@avantormaterials.com

Quality Control

In pharmaceutical manufacturing, quality control plays an extremely important role in ensuring the drug produced meets required standards. For pharmaceutical quality control and analysis, Avantor offers a broad range of high quality products, including a full line of reagents and solutions specifically for compendial testing, salts, solvents, acids, chromatography products, and products for wet chemical and instrumental analysis.

The USP/NF Official Compendia of Standards contains a section titled, "Reagents, Indicators, and Solutions" that lists the quality requirements of chemicals to be used in

compendial testing. PharmaTest reagents are tested according to these requirements, relieving you of the need to do additional testing on your reagents. Products may be reagent or other grade, but are labeled as "Meets reagent specifications for testing USP/NF monographs". See the A to Z section of this catalog for the broad range of products offered.

Dissolution Testing

In oral medications, the rate of dissolution of the tablet or capsule is crucial to ensuring the effectiveness of the drug. Dissolution testing is a standardized method for measuring the rate of drug release from a tablet or capsule. Preparation of solutions for dissolution testing can be a time-intensive and sometimes frustrating process, so Avantor developed a line of concentrates to make the process easy and trouble-free.

J.T.Baker DILUT-IT Dissolution Media Concentrates

With J.T.Baker dissolution media, we've reduced average prep time for these solutions by more than 75%, freeing up chemists for more constructive activities. Just add purified water and you're ready to begin testing. Raw materials used are in accordance with USP guidelines and containers are filled to +/- 0.5% of target fill volumes using specially designed filling equipment to ensure consistent, reproducible results every time. DILUT IT dissolution media can also be used for disintegration media preparation.

These products are available in three convenient sizes to accommodate dissolution testing needs for the most frequently used batch sizes of 6 L, 25 L, and 50 L.



J.T.Baker DILUT-IT Dissolution Media Concentrates

Product Description	250 ml Bottle Size (230.8 ml Concentrate Volume) Dilutes to 6 l of media	1 l Bottle Size (961.5 ml Concentrate Volume) Dilutes to 25 l of media	2 l Bottle Size (1.9 l Concentrate Volume) Dilutes to 50 l of media
0.01 N HCl	D010-00	D010-02	D010-04
0.1 N HCl	D011-00	D011-02	D011-04
pH 4.5 Acetate Buffer	D017-00	D017-02	D017-04
pH 5.8 Potassium Phosphate	D012-00	D012-02	D012-04
pH 6.0 Potassium Phosphate	D013-00	D013-02	D013-04
pH 6.8 Potassium Phosphate	D014-00	D014-02	D014-04
pH 7.2 Potassium Phosphate	D015-00	D015-02	D015-04
pH 7.5 Potassium Phosphate	D016-00	D016-02	D016-04
pH 7.4 Potassium Phosphate	D019-00	D019-02	D019-04
Simulated Gastric Fluid (without enzyme)	D020-00	D020-02	D020-04
pH 6.8 Sodium Phosphate	D021-00	D021-02	D021-04
SLS 0.50%	D018-01*		

* SLS 0.50% 500 ml size (400 ml of concentrate volume) produces 6 l of diluted media

Products By Application

Additional Products for Quality Control

In addition to the above products, J.T.Baker offers a wide range of products that are suitable for and used in the area of quality control. These products are detailed in other sections of this catalog. The below table lists the products and indicates the location where full details can be found in this catalog. For the most current product specifications, packaging, and prices, please visit our web site at www.avantormaterials.com.

Downstream: Purification

The purification step in the biopharmaceutical process is typically the most important. The key challenge is to maintain an acceptable and high level of purity and recovery of the protein in a cost effective manner. The selection of materials used is especially critical to maintaining the safety and efficacy of the biologically active ingredient. Process scale liquid chromatography is widely used in the purification of biomolecules due to the speed of separations, reproducibility, and well-defined methods for scale-up. In many cases, liquid chromatography is the only practical solution for removal of problematic impurities. With our broad experience and expertise, J.T.Baker is uniquely qualified to support and supply the purification chromatography media and process chemicals for your purification needs. BAKERBOND chromatography media are specifically designed for the purification and analysis of proteins, peptides, and polynucleotides, and have been used in the manufacturing of marketed biopharmaceuticals for many years, demonstrating our strict adherence to robust manufacturing and quality controls. Our buffer solutions and process chemicals are manufactured under cGMP and provide the level of quality and regulatory documentation required for downstream purification.

Other Products for Pharmaceutical Quality Control

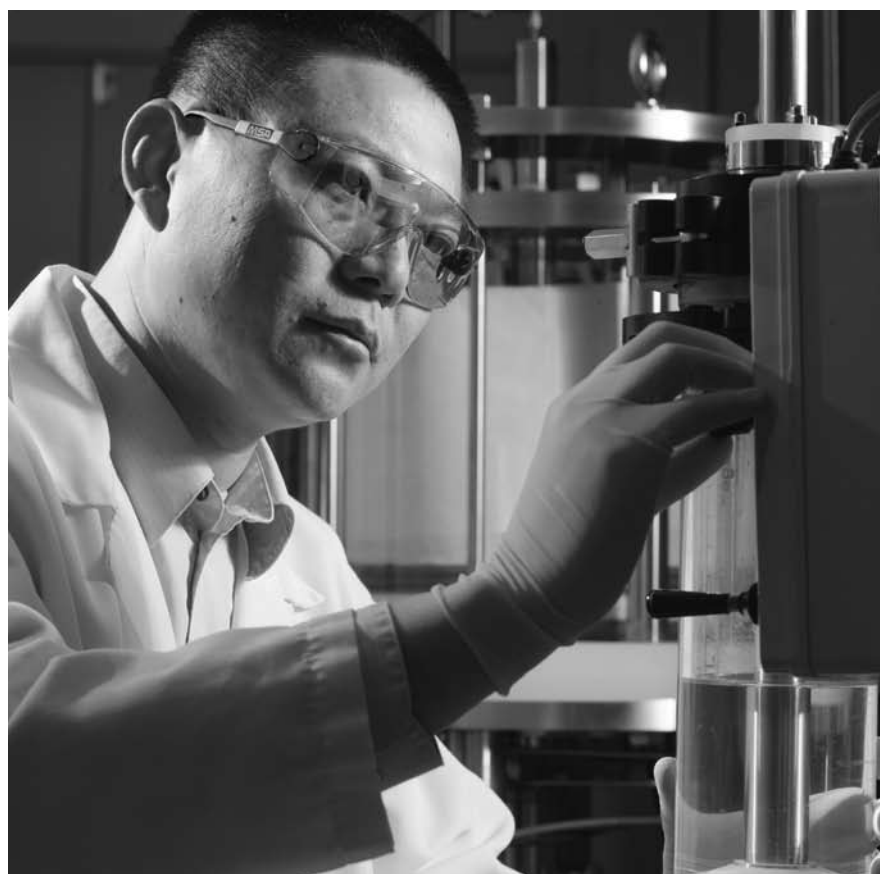
Product Line	Full Description Location
HPLC Solvents	Analytical Chromatography section starting on page 23
LC/MS Solvents	Analytical Chromatography section starting on page 23
UHPLC Solvents	Analytical Chromatography section starting on page 23
HPLC Columns	Analytical Chromatography section starting on page 23
Standards	Instrument Calibration and Standards section starting on page 81
Solid Phase Extraction	Analytical Chromatography section starting on page 23
Volumetric Solutions	Wet Chemical Analysis section starting on page 47
ACS Grade Reagents	Academic Section starting on page 79

BAKERBOND Process Chromatography Products

J.T.Baker is a basic manufacturer of BAKERBOND chromatography media for Preparative and Process Liquid Chromatography. Combining chromatographic properties of wide-pore silica or stable polymeric beads with proprietary surface chemistries has created a versatile family of products for a wide range of applications. Strict attention has been given to optimizing particle and pore size and size distributions to maximize efficiency and retain capacity and

selectivity over a broad range of operating conditions. Scale-up is further facilitated by providing the same surface chemistry on multiple particle sizes and materials.

We offer a wide range of chromatography media that provides unique selectivity, high efficiency, scalability, and various cleaning options, including sodium hydroxide. From capture to polish, we offer a variety of ion exchangers, hydrophobic interaction media, and both normal and reverse phase media for all your purification needs.



Ion Exchange Media

Ion exchange chromatography is a precise and effective method of separation of biomolecules. Separation in ion exchange chromatography is based upon the selective, reversible adsorption of charged molecules to an immobilized ion exchange group of the opposite charge.

When you need to separate biomolecules or small molecules by anion and cation exchange chromatography, J.T.Baker has a

media to meet your needs. MAb's, oligonucleotides, peptides, and proteins can be separated on either poly-methacrylate or silica base media. BAKERBOND media is designed to operate at high efficiency with unique selectivity to provide high resolution results. Operational flexibility makes it ideal for use in various chromatographic environments from lab to process scale. Media based on a wide range of base matrices have been developed to address different aspects of

downstream purification.

When you are faced with difficult separations, use one of our unique multimode ion exchangers. The multimode functionality of our ion exchange media is the result of its surface chemistry and bead properties and offers unique selectivity that is not often achieved by traditional ion exchange chromatography media. In addition to standard silica, we offer multimode ion exchange media on our polymer media.

BAKERBOND Ion Exchange Process Chromatography Media

Description	Functionality	Active groups	Backbone Material	Particle Shape	Particle Size	Pore Size	Product Number
ABx Plus Silica	ABX	COOH, N	Silica Gel	Irregular	40 µm	275 Å	7254
ABx Silica	ABX	COOH, N	Silica Gel	Irregular	40 µm	275 Å	7269
ABx Silica	ABX- Weak Cation Exchanger with capacity of 0.12 meq/ml	COOH, N	Silica Gel	Irregular	40 µm	500 Å	7369
ABx Silica	ABX- Weak Cation Exchanger with capacity of 0.12 meq/ml	COOH, N	Silica Gel	Spherical	15 µm	300 Å	7157
Carboxylic Acid Silica	Strong Anion Exchange	COOH	Silica Gel	Irregular	40 µm	60 Å	7044
Carboxy-Sulfon Silica	CARBOXY-SULFON	COOH, SO ₃ H	Silica Gel	Irregular	40 µm	275 Å	7252
Carboxy-Sulfon Silica	CARBOXY-SULFON	COOH, SO ₃ H	Silica Gel	Spherical	15 µm	300 Å	7184
CBx Silica	Weak Cation Exchange	COOH	Silica Gel	Irregular	40 µm	275 Å	7263
CBx Silica	Weak Cation Exchange	COOH	Silica Gel	Spherical	15 µm	300 Å	7181
DEAM Silica	Diethylaminomethyl	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃)	Silica Gel	Irregular	40 µm	275 Å	7473
DEAM Silica	Diethylaminomethyl	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃)	Silica Gel	Spherical	15 µm	300 Å	7472
DEAM Silica	Diethylaminomethyl	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃)	Silica Gel	Spherical	10 µm	120 Å	7316
DEAM Silica	Diethylaminomethyl	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃)	Silica Gel	Spherical	20 µm	120 Å	7317
DEAM Silica	Diethylaminomethyl	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃)	Silica Gel	Spherical	5 µm	300 Å	7471
PEI Silica	Polyethyleneimine	CH ₂ CH ₂ NH	Silica Gel	Spherical	15 µm	300 Å	7180
PEI Silica	Polyethyleneimine	CH ₂ CH ₂ NH	Silica Gel	Irregular	40 µm	275 Å	7264
PEI Silica	Polyethyleneimine	CH ₂ CH ₂ NH	Silica Gel	Irregular	40 µm	500 Å	7368
QUAT Silica	Strong Anion Exchange	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃) ₂	Silica Gel	Spherical	15 µm	300 Å	7183
QUAT Silica	Strong Anion Exchange	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃) ₂	Silica Gel	Irregular	40 µm	275 Å	7251
QUAT Silica	Strong Anion Exchange	-CH ₂ -CH ₂ -N-CH ₂ -CH ₂ -(CH ₃) ₂	Silica Gel	Irregular	40 µm	60 Å	7043
Sulfonic Silica	Strong Cation Exchange	-SO ₃ H	Silica Gel	Irregular	40 µm	275 Å	7489
Sulfonic Silica	Strong Cation Exchange	-SO ₃ H	Silica Gel	Irregular	40 µm	60 Å	7046
PolyABx	Primarily Weak Cation Exchange with Weak Anion Exchange sites.	COOH, N	Polymethacrylate	Spherical	35 µm	500 Å	7586
PolyCSx	Primarily a Strong Cation Exchanger with Weak Cation and Anion Exchange sites.		Polymethacrylate	Spherical	35 µm	500 Å	7587
PolyPEI	Primary Weak Anion Exchanger	CH ₂ CH ₂ NH	Polymethacrylate	Spherical	35 µm	500 Å	7585
PolyQUAT	Primarily a Strong Anion Exchanger with Weak Anion Exchange sites.		Polymethacrylate	Spherical	35 µm	500 Å	7603
Propyl-Sulfonic Silica	Strong Cation Exchange	-SO ₃ H	Silica Gel	Irregular	40 µm	60 Å	7045

Contact an Avantor Sales Representative for pricing, additional sizes and functional groups

Products By Application

BAKERBOND Ion Exchange Analytical to Preparative Columns

Description	Type	Column Size	Particle Size	Particle Shape	Pore Size	Product Number
ABx (Antibody Exchanger)	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7272-00
	Prep	21.2 x 250 mm	15 µm	Spherical	300 Å	7272-43
WP CBX (Weak Cation Exchange)	Standard	4.6 x 250 mm	5 µm	Spherical	300 Å	7114-00
WP CARBOXY-SULFON	Standard	4.6 x 250 mm	5 µm	Spherical	300 Å	7159-00
WP DEAM (Weak Anion Exchange)	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7475-39
WP PEI (Weak Anion Exchange)	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7278-00
WP QUAT (Strong Anion Exchange)	Scout	4.6 x 250 mm	5 µm	Spherical	300 Å	7158-00
	Scout	4.6 x 50 mm	5 µm	Spherical	300 Å	7158-05
	Versa-Ten	7.75 x 100 mm	5 µm	Spherical	300 Å	7158-06
	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7275-00
	Standard	4.6 x 50 mm	5 µm	Spherical	300 Å	7159-05
	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7274-00

BAKERBOND Multimode Ion Exchange Process Chromatography Media

Description	Particle Size	Particle Shape	Pore Size	Product Number
ABx Silica	15 µm	Spherical	300 Å	7157
Carboxy-Sulfon Silica	15 µm	Spherical	300 Å	7184
Carboxy-Sulfon Silica	40 µm	Irregular	275 Å	7252
DEAM Silica	15 µm	Spherical	300 Å	7472
PEI Silica	15 µm	Spherical	300 Å	7180
PolyABx-35	35 µm	Spherical	500 Å	7586
PolyCSX-35	35 µm	Spherical	500 Å	7587
PolyPEI	35 µm	Spherical	500 Å	7585
PolyQUAT	35 µm	Spherical	500 Å	7603
QUAT Silica	15 µm	Spherical	300 Å	7183

Contact an Avantor Sales Representative for pricing, additional sizes and functional groups

Hydrophobic Interaction Media

Hydrophobic Interaction Chromatography (HIC) separates proteins based on surface hydrophobicity. HIC is an especially good follow-up step to ion exchange chromatography, as it requires high salt concentrations for protein binding. The protein is

typically in a buffered salt solution and elution is accomplished by lowering the salt concentration of the mobile phase. J.T.Baker offers a range of HIC media, including a mixed mode product that provides unique selectivity with its hydrophobic interaction and ion exchange functionalities.



BAKERBOND Mixed-Mode HIC Process Chromatography Media

Description	Functionality	Active Groups	Backbone Material	Particle Shape	Particle Size	Pore Size	Product Number
HI-Propyl Silica	C ₃	C ₃	Silica Gel	Spherical	5 µm	300 Å	7291
HI-Propyl Silica	C ₃	C ₃	Silica Gel	Spherical	15 µm	300 Å	7182
HI-Propyl Silica	C ₃	C ₃	Silica Gel	Irregular	40 µm	275 Å	7285
Poly HiPropyl	C ₃	C ₃	Polymethacrylate	Spherical	35 µm	500 Å	7588

Contact an Avantor Sales Representative for pricing, additional sizes and functional groups

J.T.Baker HIC Analytical to Preparative Columns

Description	Column Size	Particle Size	Particle Shape	Pore Size	Product Number
WP Hi-Propyl (C ₃)	10.0 x 250 mm	15 µm	Spherical	300 Å	7277-00

Reverse Phase Media

Reverse phase separations refer generally to any separation done using a non-polar stationary phase and water and water-miscible solvents. Polar molecules in the mobile phase

are eluted first in high aqueous mobile phases with non-polar molecules being retained on the column and eluted with high organic mobile phases. Compounds are separated based on their hydrophobic character.

For your downstream polishing needs, J.T.Baker offers both tri-functional and mono-functional bonded phases.

BAKERBOND Reverse Phase Process Chromatography Media

Description	Functionality	Active Groups	Backbone Material	Particle Shape	Particle Size	Pore Size	Product Number
Ethyl (C ₂) Silica	C ₂	C ₂	Silica Gel	Irregular	40 µm	60 Å	7199
Butyl (C ₄) Silica	C ₄	C ₄	Silica Gel	Irregular	40 µm	60 Å	7037
Butyl (C ₄) Silica	C ₄	C ₄	Silica Gel	Irregular	40 µm	275 Å	7283
Butyl (C ₄) Silica	C ₄	C ₄	Silica Gel	Spherical	10 µm	120 Å	7479
Butyl (C ₄) Silica	C ₄	C ₄	Silica Gel	Spherical	15 µm	300 Å	7179
Octyl (C ₈) Silica	C ₈	C ₈	Silica Gel	Irregular	40 µm	60 Å	7026
Octyl (C ₈) Silica	C ₈	C ₈	Silica Gel	Spherical	5 µm	120 Å	7068
Octyl (C ₈) Silica	C ₈	C ₈	Silica Gel	Spherical	15 µm	300 Å	7190
Octyl (C ₈) Silica	C ₈	C ₈	Silica Gel	Spherical	20 µm	120 Å	7902
Octyl (C ₈) Silica	C ₈	C ₈	Silica Gel	Spherical	50 µm	120 Å	7901
Octyl (C ₈) Silica	C ₈	C ₈	Silica Gel	Spherical	50 µm	120 Å	7637
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Irregular	40 µm	60 Å	7025
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Irregular	40 µm	275 Å	7248
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Spherical	10 µm	120 Å	7484
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Spherical	15–30 µm	120 Å	7485
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Spherical	40–60 µm	120 Å	7488
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Spherical	50 µm	120 Å	7579
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Spherical	15 µm	300 Å	7191
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Spherical	40 µm	300 Å	7207
Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Spherical	50 µm	300 Å	7247
Octadecyl (C ₁₈) Non-encapped Silica	C ₁₈	C ₁₈	Silica Gel	Irregular	130 µm	150 Å	7403
Polar Plus Octadecyl (C ₁₈) Silica	C ₁₈	C ₁₈	Silica Gel	Irregular	40 µm	60 Å	7465
Phenyl Silica	Phenyl	C ₆ H ₅ -C ₂ H ₄	Silica Gel	Irregular	40 µm	60 Å	7040
Phenyl Silica	Phenyl	C ₆ H ₅ -C ₂ H ₄	Silica Gel	Spherical	5 µm	120 Å	7076

Contact an Avantor Sales Representative for pricing, additional sizes and functional groups

Products By Application

BAKERBOND Reverse Phase Analytical to Preparative Columns

Description	Type	Column Size	Particle Size	Particle Shape	Pore Size	Product Number
WP Butyl (C ₄)	Standard	4.6 x 250 mm	5 µm	Spherical	300 Å	7116-00
	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7280-00
	Prep	21.2 x 250 mm	15 µm	Spherical	300 Å	7280-43
WP Octyl (C ₈)	Standard Ten	4.6 x 100 mm	5 µm	Spherical	300 Å	7105-01
	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7296-39
WP Octadecyl (C ₁₈)	Standard Ten	4.6 x 100 mm	5 µm	Spherical	300 Å	7104-01
	Standard	4.6 x 250 mm	5 µm	Spherical	300 Å	7104-00
	Semi-Prep	10.0 x 250 mm	15 µm	Spherical	300 Å	7297-00
	Prep	21.2 x 250 mm	15 µm	Spherical	300 Å	7297-43
	Prep	50.8 x 250 mm	15 µm	Spherical	300 Å	7297-47

Normal Phase Media

Normal phase or adsorption chromatography separates analytes based on adsorption to a polar stationary phase with a non-polar, non-aqueous mobile phase and works effectively for separating analytes readily soluble in non-polar solvents.

When you need to separate polar molecules for drug discovery and biomolecules from non-polar sample impurities, use BAKERBOND normal phase media to retain the polar compounds of interest while the non-polar material elutes through the column. There are particle and

pore sizes available to fit both your small and large molecule applications and to optimize both selectivity and throughput.

Following is our Biochromatography Media Selection Guide with key information about our media.

BAKERBOND Normal Phase Process Chromatography Media

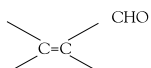
Description	Functionality	Active groups	Backbone material	Particle shape	Particle Size	Pore Size	Product Number
Amino Silica	Amino (NH ₂)	NH ₂	Silica Gel	Spherical	5 µm	120 Å	7070
Amino Silica	Amino (NH ₂)	-NH ₂	Silica Gel	Irregular	40 µm	60 Å	7028
Amino Silica	Amino (NH ₂)	-NH ₂	Silica Gel	Irregular	40 µm	60 Å	7440
Cyanopropyl Silica	Cyanopropyl (CN)	CN	Silica Gel	Spherical	5 µm	300 Å	7129
Cyano Silica	Cyano	CN	Silica Gel	Irregular	40 µm	60 Å	7027
Diol Silica	Diol	COHCOH	Silica Gel	Irregular	40 µm	60 Å	7047
Silica Gel	Hydroxyl	-OH	Silica Gel	Spherical	15 µm	300 Å	7624
Silica Gel	Hydroxyl	-OH	Silica Gel	Irregular	40 µm	1000 Å	7315
Silica Gel	Hydroxyl	-OH	Silica Gel	Irregular	63 µm	60 Å	7605
Silica Gel	Hydroxyl	-OH	Silica Gel	Spherical	50 µm	70 Å	7295
Silica Gel	Hydroxyl	-OH	Silica Gel	Irregular	90–130 µm	1000 Å	7187

Contact an Avantor Sales Representative for pricing, additional sizes and functional groups

BAKERBOND Normal Phase Analytical Columns

Description	Column Size	Particle Size	Particle Shape	Pore Size	Product Number
Cyano (CN)	4.6 x 250 mm	5 µm	Spherical	120 Å	7111-00

Biochromatography Media Selection Guide

	Binding Group	Particle Sizes	Capacity ^{1, 2} (mg protein/ g packing)	pH Operating Range	pH Stability	Suggested Binding Mobile Phase (A Buffer)	Suggested Elution Mobile Phase (B Buffer)
ABx	COOH, N	5 m, 15 m, 40 m	150–200	4.5–10	2–10	25 mM MES, pH 5.6	500 mM (NH ₄) ₂ SO ₄ plus 20 mM KH ₂ PO ₄ , pH 7.0 or 1M NaOAc, pH 7.0
ABx Plus	COOH, N	40 m	150–200	4.5–10	2–10	25 mM MES, pH 5.6	500 mM (NH ₄) ₂ SO ₄ plus 20 mM KH ₂ PO ₄ , pH 7.0 or 1M NaOAc, pH 7.0
PEI	CH ₂ CH ₂ NH	5 m, 15 m, 40 m	150–200	2–7.5	2–10	10 mM KH ₂ PO ₄ , pH 6.5 or 25 mM Tris-OAc, pH 6.5	500 mM KH ₂ PO ₄ , pH 6.0 or 2M NaOAc, pH 6.0
DEAM	$\begin{array}{c} \text{---CH}_2\text{---CH}_2\text{---N---CH}_2\text{---CH}_2\text{---} \\ \\ \text{(CH}_3\text{)} \end{array}$	5 m, 15 m, 40 m	150–200	2–9.0	2–10	25 mM Tris-OAc, pH 5–9	25 mM Tris-OAc, pH 5–9 plus 1M NaCl
QUAT	$\begin{array}{c} + \\ \text{---CH}_2\text{---CH}_2\text{---N---CH}_2\text{---CH}_2\text{---} \\ \\ \text{(CH}_3\text{)}_2 \end{array}$	5 m, 15 m, 40 m	150–200	2–10	2–10	25 mM Tris-OAc, pH 5–8 or 25 mM CAPS, pH 8–10	25 mM Tris-OAc, pH 5–8 plus 1M NaCl or 25 mM CAPS, pH 8–10 plus 1 M NaCl
CBX	COOH	5 m, 15 m, 40 m	150–200	4.5–10	2–10	25 mM MES, pH 5.6 or 10 mM KH ₂ PO ₄ , pH 5.6	500 mM (NH ₄) ₂ SO ₄ plus 20 mM KH ₂ PO ₄ , pH 7.0 or 1 M NaOAc, pH 7.0 or 500 mM KH ₂ PO ₄ , pH 6.0
CARBOXY-SULFON	COOH, SO ₃ H	5 m, 15 m, 40 m	150–200	4.5–10	2–10	25 mM MES, pH 5.6 or 10 mM KH ₂ PO ₄ , pH 5.6	500 mM (NH ₄) ₂ SO ₄ plus 20 mM KH ₂ PO ₄ , pH 7.0 or 1 M NaOAc, pH 7.0 or 500 mM KH ₂ PO ₄ , pH 6.0
Sulfonic	–SO ₃ H	5 m, 15 m, 40 m	150–200	2–10	2–10	25 mM MES, pH 5.6 or 10 mM KH ₂ PO ₄ , pH 5.6	500 mM (NH ₄) ₂ SO ₄ plus 20 mM KH ₂ PO ₄ , pH 7.0 or 1 M NaOAc, pH 7.0 or 500 mM KH ₂ PO ₄ , pH 6.0
HI-Propyl	C ₃	5 m, 15 m, 40 m	150–200	2–10	2–10	2M (NH ₄) ₂ SO ₄ plus 25 mM KH ₂ PO ₄ , pH 7.0	25 mM KH ₂ PO ₄ , pH 7.0
HI-Phenyl	$\begin{array}{c} \text{OH} \\ \\ \text{---CH}_2\text{CHCH}_2\text{O---} \end{array}$ 	40 m	100	2–10	2–10	2M (NH ₄) ₂ SO ₄ plus 25 mM KH ₂ PO ₄ , pH 7.0	25 mM KH ₂ PO ₄ , pH 7.0
Glutaraldehyde-P		40 m	70–100 (Con A)	2–10	2–10	Variable	Variable
WP C₄, C₈, C₁₈	C ₄ , C ₈ , C ₁₈	5 m, 15 m, 40 m	150 (MW>15,000) 50 (MW<15,000)	2–8	2–8	0.1% TFA in water	0.1% TFA in acetonitrile

1. Capacity by frontal analysis at 50% breakthrough

2. To convert grams to ml packed bed volume: 5 m, 1 g = 1.6 ml packed bed volume;
15 m, 1 g = 2.0 ml packed bed volume; 40 m, 1 g = 3.0 ml packed bed volume

Products By Application

Additional Biotech Products

ULTRAPURE BIOREAGENTS

The J.T.Baker line of ULTRAPURE BIO-REAGENTS delivers crucial parameters to molecular biologists, including assay purity ranging from 98% to above 99.9%, no detectable DNase, RNase and Protease, low heavy metal content, and low insolubles. The product line also includes biological buffers that are non-toxic to cells and are not absorbed through cell membranes. For a complete list of products, please see the Drug Discovery section of this catalog starting on page 53.

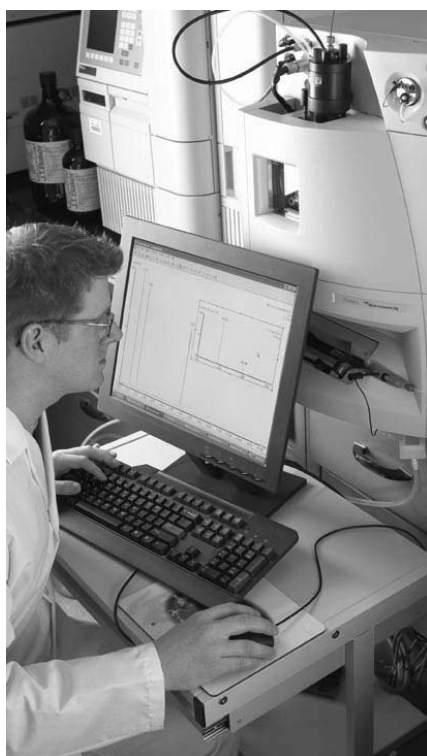
BAKER BIO-ANALYZED Solvents

J.T.Baker BAKER BIO-ANALYZED solvents for biomolecule synthesis are specifically designed, manufactured, and tested to maximize coupling efficiencies and deliver the highest yields in this critical application. For a complete list of products, please see the Drug Discovery section of this catalog starting on page 53.

control and analysis, J.T.Baker offers a broad range of high quality products, including a full line of high purity chemicals and reagents specifically for quality control testing. See the reference table below for where to find detailed descriptions and the A to Z section of this catalog for the broad range of products offered.

Products for Biopharmaceutical Quality Control

In biopharmaceutical manufacturing, quality control is a critical component for our customers. For biopharmaceutical quality



Products for Biopharmaceutical Quality Control

Product Line	Full Description Location
HPLC Solvents	Analytical Chromatography section starting on page 23
LC/MS Solvents	Analytical Chromatography section starting on page 23
UHPLC Solvents	Analytical Chromatography section starting on page 23
HPLC Columns	Analytical Chromatography section starting on page 23
Standards	Instrument Calibration and Standards section starting on page 81
Solid Phase Extraction	Analytical Chromatography section starting on page 23
Volumetric Solutions	Wet Chemical Analysis section starting on page 47
ACS Grade Reagents	Academic Section starting on page 79

Healthcare

Avantor Performance Materials chemicals expertise and over 30 years of experience are the foundation of our J.T.Baker products for Hematology. We understand not just cell lysing and chemical interference of compounds on cell membranes, but we also understand the characteristics of these compounds in aqueous solutions and their long-term behavior in the presence of other chemicals.

Within our Histopathology product line we offer a comprehensive range of fixatives, reagents, solvents, stains, environmentally friendly clearing and auxiliary products specially formulated and purified for use in the histopathology and cytopathology laboratories.

Avantor reagents offer superior quality and precision for instrumentation used in Clinical Chemistry and Immuno Chemistry analysis. Getting the right specificity and accuracy you need, is important when healthcare outcomes are at stake.

Molecular biology and molecular diagnostics has been evolving for years. To achieve optimal results in the life science research and molecular diagnostics Avantor offers a variety of high performance products.

Products for Infectious Diseases require high accuracy and state of the art production facilities.

Our products are manufactured using state-of-the-art production techniques in modern and certified manufacturing facilities to assure a minimum of impurities.

Hematology

Together with the broad range of reagents for cell analyzers, Avantor supplies a variety of hematology controls to monitor daily accuracy and precision.



The hematology reagents manufacturing facility at Avantor in Deventer, The Netherlands

Reagents for cell analyzers

We offer a complete range of reagents. This range consists of Diluids (diluting fluids), CyMets (lysing reagents) and several types of rinsing and cleaning solutions. Diluid is a specially filtered non-sterile blood diluting fluid for use in cell counting and sizing.

J.T.Baker lysing reagents are available both as Cyanide (CN) free / SDS free solutions and as traditional cyanide containing reagents. The CN/SDS free reagents are non-poisonous and more stable than the traditional reagents.

Hematology controls

Our range of controls covers 8 parameter control for most instruments and differential controls for various 3- part and 5-part differential analysis including reticulocyte counting. All controls are manufactured and delivered on a four or six times per year schedule (depending on the stability). Orders are guaranteed when received 16 weeks in advance. All deliveries are accompanied by assay values for the applicable instruments.

Rapid Stat, quality control and assessment program

Rapid Stat is a fast and convenient Quality Assessment program for hemocytometry. Users of most J.T.Baker Hematology Controls are allowed to participate in our external, between-lab and between-instrument statistical program. This service is provided to inform users of our controls about their individual performance compared to other users.

Hematology stains

Besides May-Grünwald/Giemsa, Wright and Leishman staining solutions for traditional methods, we also offer a microscopic stain, Reticount, for staining of Reticulocytes.

All our products are distributed through our worldwide network of distributors. Some reagents are only available through specified instrument dealers.

Certification and Legislation

Effective from June 2000, In Vitro Diagnostic Medical Devices (IVDs) have to comply with the IVD Directive 98/79/EC and have to show the CE mark when the registration is completed. Avantor is in full compliance with this registration. All products subject to the directive are registered and CE marked.

Packaging to suit your needs

J.T.Baker hematology reagents are supplied in various packaging options. Diluids (diluting fluids) are packed in 5, 10 or 20 l polycubes. CyMets (lysing reagents) are provided in 0.5 or 1 l HDPE bottles or 5 l polycubes. Equipment dedicated bottles are also available. Hematology controls are supplied in 2.5 or 8 ml screw-cap vials or 4.5 ml pierceable vials.

Products By Application

Product list for hematology

Product Number	Product	Size	CE mark	Product Number	Product	Size	CE mark
Reagents for diluting and lysing				3841.1000PE	CyMet H12 CN Free	1 liter	CE
3961	Diluid 100 Plus	20 liter	CE	3842.1000	EO Reagent Autocounter	1 liter	CE
3954	Diluid 590	20 liter	CE	3853.1000	CyMet H20	1 liter	CE
3969	Diluid 610	20 liter	CE	3968	CyMet III Diff	1 liter	CE
3430.9010	Diluid Abacus	10 liter	CE	3964	CyMet III Diff	5 liter	CE
3430.9020	Diluid Abacus	20 liter	CE	3972.1000	CyMet III Diff CN free	1 liter	CE
3996	Diluid AC 900	20 liter	CE	3972.5000	CyMet III Diff CN free	5 liter	CE
3996.9010PC	Diluid AC 900	10 liter	CE	3740.0500	CyMet KX CN Free	500 ml	CE
3476.9020PC	Diluid APR	20 liter	CE	3487.1000PE	CyMet MD(I)	1 liter	CE
3956	Diluid Azide free	5 liter	CE	3488.0500PE	CyMet MD(II)	500 ml	CE
3957	Diluid Azide free	20 liter	CE	3489.1000PE	CyMet MBA	1 liter	CE
3958	Diluid Azide free	10 liter	CE	3497.0500PE	CyMet MH	500 ml	CE
3963.9010	Diluid III Diff	10 liter	CE	3852.1000	CyMet Micro	1 liter	CE
3963	Diluid III Diff	20 liter	CE	3852.0500	CyMet Micro	500 ml	CE
3974	Diluid III Diff Seacontainer	20 liter	CE	3857.1000	CyMet Micro CN free	1 liter	CE
3459.9020	Diluid Erma	20 liter	CE	3857.0500	CyMet Micro CN free	500 ml	CE
3483.9020PC	Diluid NR	20 liter	CE	3863.1000	CyMet Micro CN free	1 l micros	CE
3439.9020PC	Diluid Mindray	20 liter	CE	3440.0500PE	CyMet Mindray CN Free	500 ml	CE
3496.9020PC	Diluid M5	20 liter	CE	3441.0500PE	CyMet Mindray	500 ml	CE
3832.9020	Diluid Sheath 3200-4000	20 liter	CE	3480.5000PC	CyMet SF Baso	5L	CE
3976	Diluid ST 1600/2000	20 liter	CE	3481.5000PC	CyMet SF Diff 1	5L	CE
3495.9010PC	Sheath D	10 liter	CE	3482.0500PE	CyMet SF Diff 2	500 ml	CE
3826	Sheath Fluid 3000/3500	20 liter	CE	3775.1000	CyMet ST 1600/2000	1 liter	CE
3826.5000	Sheath Fluid 3000/3500	5 liter	CE	3759	CyMet ST 1600/2000 CN free	5 liter	CE
3827.5000PC	LeucoLyse	5 liter	CE	3788	CyMet STX/STL	1 liter	CE
3998	CN-free Lyse Diff AC 900	5 liter	CE	3919	CyMet STX/STL	5 liter	CE
3744	CyMet 1000 CN free	5 liter	CE	3484.1000PE	CyMet NR III	1 liter	CE
3773.5000PC	CyMet 4500 CN free	5 liter	CE	3486.1000PE	CyMet NR III, CN Free	1 liter	CE
3824	CyMet 3000	10 liter	CE	3485.1000PE	CyMet NR V	1 liter	CE
3823.1000	CyMet 3200 CN free	1 liter	CE	3077	LyzerGlobin	500 ml	CE
3825	CyMet 3500 CN free	5 liter	CE	3769	LyzerGlobin	6 x 15 ml	CE
3839.5000PC	CyMet 3500	5 liter	CE	3771	LyzerGlobin PCE	6 x 15 ml	CE
3975	CyMet 530+ CN free	10 liter	CE	3770	LyzerGlobin II	10 x 10 ml	CE
3971	CyMet 590 CN free	5 liter	CE	3851.0500	LyzerGlobin CN free	500 ml	CE
3970	CyMet 610 CN free	10 liter	CE	3850	LyzerGlobin CN free	6 x 15 ml	CE
3977	CyMet 610 CN free	5 liter	CE	Cleaners			
3918.5000	CyMet 9000 CN free	5 liter	CE	3761	DetectoTerge conc. 20x	1 liter	CE
3431.1000	CyMet Abacus CN free	1 liter	CE	3766.0500	DetectoTerge	500 ml	CE
3444.1000PE	CyMet Abacus EO	1 liter	CE	3763	DetectoTerge	5 liter	CE
3445.1000PE	CyMet Abacus Baso	1 liter	CE	3766	DetectoTerge	1 liter	CE
3477.0500PE	CyMet APR CN free	500 ml	CE	3900	ProClean	5 liter	CE
3478.1000PE	CyMet APR EO	1 liter	CE	3768.1000	ProClean	1 l micros	CE
3479.1000PE	CyMet APR Baso II	1 liter	CE	3867.1000PE	ProClean Extra	1 l micros	CE
3755	CyMet Automated	5 liter	CE	3862.1000	ProClean Extra	1 liter	CE
3757	CyMet Automated	500 ml	CE	3862.5000	ProClean Extra	5 liter	CE
3780	CyMet Automated CN Free	1 liter	CE	3901	ProClean Plus	100 ml	CE
3460.0500	CyMet Erma	500 ml	CE	3902.0100PE	ProClean CD	100 ml	CE

Product list for hematology

Product Number	Product	Size	CE mark
3432.5000	ProClean Abacus	5 liter	CE
3498.1000PE	ProClean MX5	1 liter	CE
3946	Blanking Solution Hgb	20 liter	CE
3947	Blanking Solution 1600/2000	20 liter	CE
3917	Hypochlorite 0.5%	1liter	CE
3917.5000	Hypochlorite 0.5%	5 liter	CE
3442.5000PE	Rinse Mindray	5 liter	CE
3915	Rinsing Solution Serono 9000	20 liter	CE
3438.1000PE	Rinse VET	1 liter	CE
3438.5000PC	Rinse VET	5 liter	CE
3941.1000PE	Hypochlorite NR	1 liter	CE
3941.5000PC	Hypochlorite NR	5 liter	CE
Reagents for 5-part WBC diff. for Coulter instruments			
3938	RBClyse	1 liter	CE
3938G.1000PE	RBClyse G	1 liter	CE
3939	WBCStabilise	500 ml	CE
3492.0090	RetiCount MH	6 x 15 ml	CE
3493.0500PE	RetiClear MHG	500 ml	CE
3493.1000PE	RetiClear MHG	1 liter	CE
3494.0200PE	RetiCount G	200 ml	CE
Reagents for Reticulocyte determination			
3774	Reticount	30 ml	CE
3777	Reticount CD	15 x 3.5 ml	CE
Hematology Controls			
3619/3620/3621	8 PMC Low/Normal/High	1 ml	CE
3724/3725/3726	8 PMC Low/Normal/High	2.5 ml	CE
3701/3702/3703	8 PMC Low/Normal/High	4.5 ml	CE
3721/3722/3723	8 PMC Low/Normal/High	8 ml	CE
3922/3923/3924	8 PMC L/N/H Swelab	4.5 ml	CE
3746	8 PMC 1 x L, 1 x N, 1 x H	3 x 2.5 ml	CE
3747	8 PMC 4 x Normal	4 x 2.5 ml	CE
3748	8 PMC 4 x Normal	4 x 8 ml	CE
3749	8 PMC 4 x Low	4 x 2.5 ml	CE
3751	8 PMC 1x L, 4 x N, 1x H	6 x 2.5 ml	CE
3734/3735/3736	3 Diff Control L/N/H	2.5 ml	CE
3820/3821/3822	3 Diff Control L/N/H	4.5 ml	CE
3752	3 Diff Control 4 x Low	4 x 2.5 ml	CE
3753	3 Diff Control 4 x Norm	4 x 2.5 ml	CE

Product Number	Product	Size	CE mark
3754	3 Diff Control 4 x High	4 x 2.5 ml	CE
3782/3783/3784	CA Diff Control L/N/H	4.5 ml	CE
3607/3608/3609	CA Diff Control L/N/H	2.5 ml	CE
3610/3611/3612	DIA Diff 5 Control L/N/H	4.5 ml	CE
3622/3623/3624	DR Diff Control L/N/H	4.5 ml	CE
3731/3732/3733	XE Diff Control L/N/H	4.5 ml	CE
3693/3694/3695	SF Diff Control L/N/H	4.5 ml	CE
3613/3614/3615	BC Diff 5 Control L/N/H	3.0 ml	CE
3681/3682/3683	5D Control Low /N /H	5.0 ml	CE
3666/3667/3668	Retic 1/2/3	3.0 ml	CE
3684/3685/3686	ADV Diff Control L/N/H	3.5 ml	CE
3690/3691/3692	ADV Retic 1/2/3	4.0 ml	CE
3828/3829/3830	CD Diff Control	3.0 ml	CE
3687/3688	CD 4K Retic 1/2	3.0 ml	CE
3892/3893/3894	AC Diff Control	2.5 ml	CE
3896/3897/3898	K Diff Control	2.5 ml	CE
3696/3697	WBC reduced Plt Control L/H	3.0 ml	CE
3698/3699	WBC reduced RBC Control L/H	3.0 ml	CE
Laser controls and particle suspensions for Coulter MaxM, GenS and STKS			
3679.0090	Laser Primer	6 x 15 ml	
3680.0090	Laser Control	6 x 15 ml	
Calibration Set for Cell Analyzers.			
3940	Cal Set 1	2 x 2.5 ml	CE
3720	Platelet Control Ext. value	5 x 3 ml	CE
Phosphate Buffered Saline.			
3058.9010	Immuno PBS 20x conc	10 liter	CE
3059	PBS, diluting fluid	20 liter	CE
3059.9010PC	PBS, diluting fluid	10 liter	CE
Stains and Dyes			
3856.0500	Giemsa	0.5 liter	CE
3856.1000	Giemsa	1 liter	CE
3856.2500	Giemsa	2.5 liter	CE
3879.1000	Leishman	1 liter	CE
3855.0500	May Grünwald	0.5 liter	CE
3855.1000	May Grünwald	1 liter	CE
3855.2500	May Grünwald	2.5 liter	CE
3876.1000	Shorr	1 liter	CE
3878.1000	Wright	1 liter	CE

Download the brochure Hematology reagents and controls on www.avantormaterials.com for more detailed information.



Products By Application

Histopathology

Avantor Performance Materials supplies a variety of solvents, reagents and stains for use in histopathology, cytopathology and hematology laboratories.

Fixatives

Formaldehyde solutions

Effective and reproducible fixation requires buffered formaldehyde. Non-buffered formaldehyde solutions are acidic and therefore inconsistent for pH. When formaldehyde is acidic, formation of formaline-heme pigments may occur. These pigments appear as black deposits in the tissue. To obtain optimised fixation the buffer concentration is also very important. We offer formaldehyde fixatives as a ready-to-use solution or as a concentrated solution. All formaldehyde fixatives are phosphate buffered with an optimised buffer concentration.

Formalin Neutraliser

Avantor developed a product that facilitates the safe disposal of used or spilled formalin. Formalin Neutraliser is a powerful chemical capable of neutralising formalin.

Paraffin

UltraPar, 54 – 56°C Paraffin

UltraPar is a special particle-free paraffin intended for use in tissue embedding and sectioning in histopathology. When melted, UltraPar is a clear and bright solution. The solubility of UltraPar in UltraClear is extremely good.

UltraClear - Environmentally and human friendly solvents to replace Xylene and Toluene

UltraClear

UltraClear is an iso-paraffin based clearing reagent. UltraClear may be used as a Xylene replacement during tissue embedding,

deparaffination and staining processes.

UltraClear is less-toxic, less-carcinogenic, less-flammable, odourless and easy to adapt with existing procedures.

UltraKitt

UltraKitt is a mounting medium which is miscible with UltraClear, xylene and toluene. UltraKitt is:

- Unique, patent for Europe and USA is granted and filed
- Safe, as it does not contain dangerous aromatic solvents

High quality staining solutions

Staining May-Grünwald and Giemsa, Wright and Leishman

These stains are used for tissue sections, cytology smears and bone marrow. Our production methods and formulations are modified to the highest standards, resulting in optimised colour intensity of stained cells.

Staining Histology (H&E)

- Our hematoxyline is available according to Mayer or modified according to Gill II / Harris. Modern technology allows a time and temperature controlled manufacturing process. This process guarantees a final product with long stability and consistent, bright and clear staining of the cell nucleus. In addition we also offer a Scotch solution, which enables a stable and optimised

bluing of the cell nucleus.

- J.T.Baker Eosine Y stains are offered as an alcoholic or as an aqueous solution. Our Eosine Y counter stains are optimised in combination with our hematoxyline stains. For advice on staining procedures, we offer product information bulletins on request or on our website.

Staining Cytology (Papanicolaou)

- Experienced laboratory technicians claimed that results obtained with the J.T.Baker PAP stains are of superb colour intensity. All of our PAP staining solutions are purified and free from contamination. We offer Papanicolaou 1 (hematoxyline according to Gill II / Harris), Papanicolaou 2A (Orange G6), Papanicolaou 2B (Orange II) and Papanicolaou 3B (EA 50). For more details and recommended staining procedures, we offer product information bulletins on our website.

Alcohols and Solvents

Alcohols

A broad range of ready-to-use alcohols and mixtures are available in convenient and easy-to-carry HDPE cans.

Solvents

In addition to our widely used UltraClear, we offer both xylene and toluene in a Histo grade quality.



Download the brochure Histology and Cytology reagents on www.avantormaterials.com for more detailed information.

Product list for histology

Product	Grade	Product number	CE mark
Fixatives			
Bouins Fixative	Histology	3880	CE
Cervix Spray Fixative	Histology	3869	CE
Formaldehyde 10% v/v (4% w/v), Phosphate Buffered	Baker	7385	
Formaldehyde 10% v/v (4% w/v), Phosphate Buffered	Histology	3933	CE
Formaldehyde 10% w/v, Stabilized with Methanol	Baker Analyzed Reagent	7424	
Formaldehyde 13% v/v, Phosphate Buffered	Baker	7390	
Formaldehyde 19% w/v, Phosphate Buffered	Histology	3858	
Formaldehyde 37%, Stabilized with Methanol	Baker	7041	
Formaldehyde 37%, Stabilized with Methanol	Baker Analyzed Reagent	7040	
Formaldehyde 38% w/v, Phosphate Buffered	Histology	3859	
Formalin Neutralizer	Histology	3934	
Glyoxal, 40% in Water	Technical	M834-09	
Zinc Formaldehyde Solution	Histology	on request	
Alcohols and Solvents			
2-Propanol	Baker Analyzed Reagent	8067	
2-Propanol	Baker	8119	
2-Propanol	Histology	3401	
Acetone	Baker Analyzed Reagent	8002	
Acetone	Baker	8003	
Acetone	Histology	3403	
Benzyl Alcohol	Baker Analyzed Reagent	7010	
Benzyl Alcohol	Histology	3402	
Chloroform	Baker Analyzed Reagent	7152	
Ethanol 96%	Histology	3405	
Ethanol 96%, denatured with 5% Methanol	Histology	3407	
Ethanol 99%	Histology	3406	
Ethanol 99%, denatured with 5% Methanol	Histology	3408	
Methanol	Baker Analyzed Reagent	8045	
Methanol	Baker	8047	
Methanol	Histology	3400	
n-Amyl Alcohol	Baker Analyzed Reagent	8009	
tert-Butyl Alcohol	Baker Analyzed Reagent	8019	
Clearing agents			
MountingClear	Histology	3904	
Toluene	Baker Analyzed Reagent	8077	
Toluene	Baker	8078	
Toluene	Histology	3411	
UltraClear	Histology	3905	CE

Product	Grade	Product number	CE mark
Xylene	Baker Analyzed Reagent	8080	
Xylene	Baker	8118	
Xylene	Histology	3410	
Paraffin			
Paraffin (54-56C)	Histology	on request	
Paraffin Cleaner	Histology	3451	
UltraPar	Histology	3925	
Stains and Dyes			
Acid Fuchsin	Baker	1420	
Alizarin Red S	Baker Analyzed Reagent	1471	
Amido Black	Baker	A586-03	
Bromocresol Green	Baker Analyzed Reagent	1511	
Bromocresol Purple	Baker	1330	
Bromophenol Blue	Baker Analyzed Reagent	1369	
Bromophenol Blue, Sodium Salt	Baker Analyzed Reagent	1472	
Bromothymol Blue	Baker Analyzed Reagent	1513	
Coomassie Brilliant Blue G-250	Baker	1473	
Coomassie Brilliant Blue R-250	Baker	1474	
Crystal Violet	Baker Analyzed Reagent	1065	
Diamond Fuchsin	Baker Analyzed Reagent	0619	
Eosin B	Baker Analyzed Reagent	L083-03	
Eosin Y (yellowish)	Baker	1303	
Eosin-Y 0.2% Alcoholic	Histology	3871	CE
Eosin-Y 0.5% Aqueous	Histology	3801	CE
Eriochrome Black	Baker Analyzed Reagent	1107	
Fast Green FCF	Baker Analyzed Reagent	1476	
Fluorescein Disodium Salt	Baker	1314	
Giemsa	Histology	3856	CE
Hematoxyline (Mayers)	Histology	3870	CE
Hematoxyline (Papanicolaou)	Histology	3873	CE
Leishman	Histology	3879	CE
Malachite Green Oxalate	Baker Analyzed Reagent	1325	
May-Grünwald	Histology	3855	CE
Methylene Blue	Baker Analyzed Reagent	1329	
Papanicolaou Solution 2A	Histology	3864	CE
Papanicolaou Solution 2B	Histology	3865	CE
Papanicolaou Solution 3B	Histology	3866	CE
Phloxine B (C.I. 45410)	Baker Analyzed Reagent	1468	
Rhodamine B	Baker	1389	
Shorr	Histology	3876	CE
Sudan III	Baker	0707	
Toluidine Blue O	Baker Analyzed Reagent	0716	
Wright	Histology	3878	CE
Mounting media			
UltraKitt	Histology	3921	CE

Products By Application

Product list for histology

Product	Grade	Product number	CE mark	Product	Grade	Product number	CE mark
Others and accessories				Iodine	Baker Analyzed Reagent	1118	
Acetic Acid, 99-100%, glacial	Baker Analyzed Reagent	6052		Iron(II) Sulfate Heptahydrate	Baker Analyzed Reagent	0126	
Acetic Acid, 99-100%, glacial	Baker	6003		Iron(II) Sulfate Heptahydrate	Baker	0127	
Activated Carbon	Baker	1991		Iron(III) Chloride Anhydrous	Baker	9051	
Aniline	Baker Analyzed Reagent	7004		Iron(III) Chloride Hexahydrate	Baker Analyzed Reagent	0119	
Baker-Clear 12	Histology	7340		Periodic Acid	Baker Analyzed Reagent	1366	
Cedarwood Oil	Baker	7397		Phenol, liquefied	Baker Analyzed Reagent	1480	
Chromium(VI) Oxide	Baker Analyzed Reagent	0086		Phenol, white fused crystal	Baker UltraPure Bioreagent	4056	
Decalcifier, rapid	Histology	3930		Potassium Hexacyanoferrate	Baker Analyzed Reagent	0219	
Dimethyl Sulfoxide	Baker	7033		Propionaldehyde	Baker	8819	
Formic Acid, 98%	Baker Analyzed Reagent	6037		Scotch Solution	Histology	3872	
Formic Acid, 98%	Baker	6062		Silver Nitrate	Baker Analyzed Reagent	1182	
Glycerol	Baker Analyzed Reagent	7044		Sodium Benzoate	Baker	2021	
Glycine	Baker Analyzed Reagent	1504		Tungstophosphoric Acid		on request	
Hydrochloric Acid, 36-38%	Baker Analyzed Reagent	6081		Tween 80	Baker	7394	
Hydrochloric Acid, 36-38%	Baker	6012					
Immuno PBS, 20x concentrated	Histology	3058	CE				

Clinical and Immuno Chemistry

Superior quality and precision for instrumentation used in clinical and immuno chemistry analysis is key for Avantor Performance

Materials reagents. You get the right specificity and accuracy exactly as needed.

Near-flawless consistency and reproducibility are crucial attributes in detecting, analyzing and following the treatment of diseases. Avantor delivers these attributes through reagents and auxiliary products that clinical and immuno chemistry laboratories need with:

- Superior Diagnostic results within a broad portfolio
- Optimized specificity and accuracy for consistency
- Special products for special tests
- Availability of Controls and calibrators for all tests

Avantor general chemistry reagent products are based on the latest available technologies and utilize the most up-to-date formulations. The tests can be performed manually on basic photometric instrumentation as well as on most large and small automated chemistry

analyzer systems. Instrument application instructions are available on request. All kits are supplied with package inserts which show clearly the instructions for use. All calibrators and controls are supplied with Value Sheets providing detailed information about the target mean and applicable ranges.

Clinical Chemistry

Enzymatic reagents, reagents for Substrates, Electrolytes and lipids cover the range for Clinical Chemistry analysis. The products are supplied as stable liquids. Liquid stable reagents offer the convenience of being "ready-to-use" as well as avoiding the risk from water contamination and pipetting errors. In addition, these reagents are based on the latest liquid chemistry technology, which results in superior stability and performance. Applicable Standards are included in the kit.

Hematology

A complete list is offered for Hemoglobin characterization and determination. HbA1, HbA2 and Foetal Hemoglobin: manual test for rapid response (less than 10 minutes). HbA1c: one step, 2nd generation assay for the

automatization of Glicated Hemoglobin determination. The application for the most common analyzers is available.

The excellent performance, a wide linear range and superior reproducibility and stability ensure reliable test results.

Products By Application

Turbidimetry

Avantor Performance Materials offers liquid ready to use reagents for reliable turbidimetry. All our reagents, for rheumatology, plasmaproteins and Bence Jones protein, can be used without sample predilution. Besides the reagents we supply all necessary calibrators and controls which are liquid and ready to use. The kit contains bottles, which can be used on a wide range of automatic analyzers and are ready to go directly onboard of the analyzers. This avoids loss of time and possible contamination. The kit size is optimized for both small and large laboratories.

Fecal Occult Blood test

Avantor FOB Test is a simple, direct binding immunoassay for the rapid qualitative detection of human occult blood in feces. Presence of human hemoglobin in feces is an indication for internal bleeding associated to pathological states of the gastrointestinal tract (colon polyp, colon rectal carcinoma, ulcerative colitis, Crohn's disease). The product is designed to detect lower levels of

colon rectal bleeding than other biochemical detection methods. The test principle is an immune-chromatographic sandwich method, using two specific monoclonal antibodies to selectively identify hemoglobin in the test samples. The result is very specific and easy to interpret. The high sensitivity and the

accuracy of the test is not affected by interfering substances, and dietary restriction is not necessary.

Every day, in clinical laboratories around the world, our products as listed below are used:

Substrates

Parameter	Product Number	Size	Min. order
Albumin	4201	10 x 50 ml	50
Bilirubin Direct-L	4255	6 x 50 ml + 1 x 20 ml	50
Bilirubin Total-L	4230	8 x 50 ml + 1 x 22 ml	50
Creatinine Enzymatic	4420	1 x 45 ml + 1 x 15 ml	20
Creatinine	4420	5 x 50 ml + 5 x 50 ml	50
Glucose-L	4575	12 x 50 ml	50
Homocysteine Enzymatic	4410	2 x 25 ml + 2 x 7 ml	10
	4415	1 x 25 ml + 1 x 7 ml	10
Mucoproteins	0650	1 x 120 ml + 2 x 100 ml	25
Total Proteins	4710	10 x 50 ml	50
Proteins, Coomassie	0730	4 x 125 ml	30
Proteins Pyrogallol	0740	2 x 100 ml	30
Urea UV	4960	10 x 40 ml + 5 x 20 ml	50
Uric Acid-L	4865	12 x 50 ml	50

Electrolytes

Parameter	Product Number	Size	Min. order	Parameter	Product Number	Size	Min. order
Calcium OCP	4325	5 x 50 ml + 5 x 50 ml	50	Potassium Enzymatic	4280	1 x 20 ml + 1 x 5 ml	20
Calcium Arsenazo	4323	10 x 50 ml	30	TIBC Total Iron Binding Cap.	0521	For 100 tests	30
Chloride	4330	5 x 50 ml	50	Magnesium	4645	4 x 50 ml	50
Copper	0890	2 x 25 ml + 2 x 25 ml	30	Phosphorus UV	4560	5 x 50 ml	50
Iron Ferene	4886	5 x 40 ml + 1 x 50 ml	30	Sodium Enzymatic	4270	1 x 20 ml + 1 x 10 ml	20
Lithium Enzymatic	4290	1 x 20 ml + 1 x 10 ml	15	Zinc	0895	2 x 50 ml + 2 x 12.5 ml	30

Products By Application

Lipids

Parameter	Product Number	Size	Min. order
Cholesterol Total-L	4340	12 x 50 ml	50
HDL Precipitant	0371	4 x 50 ml	30
HDL Direct	4375	1 x 45 ml + 1 x 15 ml	50
	4377	2 x 45 ml + 2 x 15 ml	50
LDL Direct	4380	1 x 45 ml + 1 x 15 ml	30
Triglycerides-L	4815	12 x 50 ml	50

FOB products

Parameter	Product Number	Size	Min. order
Automation Latex FOB	8457	1 x 40 ml + 1 x 10 ml	25
Calibrator FOB	8458	2 x 1 ml	10
Controls FOB	8459	2 x 2 ml	10
Sample Collection Tube FOB	8456	100 tubes	40
Sample Collection Tube Automated FOB	A8456		

Enzymes

Parameter	Product Number	Size	Min. order
ALP-L	4933	5 x 40 ml + 1 x 50 ml	30
α-Amylase-L	4175	5 x 20 ml	30
Pancreatic Amylase	4177	1 x 20 ml + 1 x 5 ml	20
Cholinesterase-L	4975	2 x 40 ml + 1 x 20 ml	30
Dibucaine Reagent	0971	5 x 20 ml	30
γGT	4544	5 x 40 ml + 1 x 50 ml	30
GOT/AST-L	4910	5 x 40 ml + 1 x 20 ml	50
	4911	10 x 40 ml + 2 x 20 ml	50

Parameter	Product Number	Size	Min. order
GPT/ALT-L	4920	5 x 40 ml + 1 x 20 ml	50
	4921	10 x 40 ml + 2 x 20 ml	50
LDH-L	4546	5 x 40 ml + 1 x 20 ml	50
	4547	10 x 40 ml + 2 x 20 ml	50
Lipase-L	5897	4 x 10 ml + 1 x 8 ml	20
CK-MB	5430	1 x 20 ml + 1 x 5 ml	20
CK-NAC	5432	4 x 16 ml + 1 x 16 ml	30

Calibrators

Calibrator	Product Number	Size	Min. order
GD-CAL	8577	6 x 3 ml	30
HDL/LDL	0831	3 x 1 ml	30
GD-Norm	8580	5 x 5 ml	30
GD-Path	8582	5 x 5 ml	20

Hematology

Parameter	Product Number	Size	Min. order
Glycotest HbA1c	5424	1 x 30 ml + 1 x 10 ml + 1 x 125 ml	30
Glycotest HbA1c Calibrator	5426	4 levels x 0.5 ml	10
Glycotest HbA1c Control	5428	2 levels x 0.5 ml	10
Glycotest HbA1c	5415	25 analyses	30
	5405	100 analyses	30
Hemoglobin A2	1050	25 analyses	20
Hemoglobin Fetal	1020	30 analyses	20

Turbidimetry

Parameter	Product Number	Size
CRP Latex L	8427	1 x 40 ml + 1 x 10 ml
ASO Latex L	8422	1 x 40 ml + 1 x 10 ml
RF Latex L	8432	1 x 40 ml + 1 x 10 ml
Ferritin Latex L	8437	1 x 40 ml + 1 x 10 ml
Micoralbumin L	8439	1 x 40 ml + 1 x 10 ml
Kappa Light Chain L	8460	1 x 20 ml + 1 x 20 ml
Lambda Light Chain L	8465	1 x 20 ml + 1 x 20 ml

Parameter	Product Number	Size
C3	8485	2 x 20 ml
C4	8490	2 x 20 ml
IgA	8472	2 x 20 ml
IgG	8482	2 x 20 ml
IgM	8487	2 x 20 ml
Transferrin	8494	2 x 20 ml

Calibrators

Calibrator	Product Number	Size
CRP Calibrator L	8429	3 x 1 ml
ASO Calibrator L	8423	3 x 1 ml
RF Calibrator L	8433	3 x 2 ml
Ferritin Calibrator L	8434	3 x 1 ml
Microalbumin Cal. L	8562	3 x 1 ml
Plasma Protein Calibrator L	8469	2 x 2 ml

Controls

Control	Product Number	Size
Microalbumin Turb. Contr. L	8438	2 x 2 ml
Plasma Prot Norm. Contr.L	8461	2 x 2 ml
Plasma Protein Pathological Control L	8464	2 x 2 ml
Plasma Protein Normal & Path. Control L	8466	2 levels x 2 ml
KAPPA Light chains positive control	6802	1 x 1 ml
LAMBDA Light chains positive control	6803	1 x 1 ml

Besides the above list we have the possibility to offer tests for (Viral) Hepatitis, Retrovirus, TORCH, Epstein Barr, Helicobacter Pylori, Tumor Markers, Hormones, Autoimmunity and Related Disorder. Tests like Bence Jones Dipstick Rapid test, Helicobacter Pylori Antigen Rapid test, C.D.P.F. – Fecal Parasite Concentrator can also be an option.

Avantor Performance Materials supports laboratories with all kind of reagents and chemicals for clinical applications.

Molecular Diagnostics

Chemicals and Reagents

Molecular Biology and Molecular Diagnostics has been evolving for years. To achieve optimal results in the Life Science Research and Molecular Diagnostics Avantor offers a variety of high performance products. The Molecular Diagnostics Chemicals and Reagents ranges from different types of agarose, electrophoresis tracking dyes to molecular buffers and more. For more information we refer to the Life Science section, chapter Drug Discovery of this catalog.

Nucleic acid stabilization by means of a storage buffer

Preservation of nucleic acids and especially RNA is difficult in clinical specimens like whole blood and in low salt buffers for storage, shipping and handling. Storage of whole blood for a few days at 4 °C leads to breakdown of nucleic acids and clots formation which makes isolation of nucleic acids impossible.

Avantor has developed a buffer composition AngeroNA for storage and transportation of RNA and DNA standards and whole blood samples. This stabilization buffer is suitable for long term storage of RNA and DNA in solution to be stable at -80°C, -20°C, 4°C, and ambient temperatures for at least 6 months. When using AngeroNA with whole blood nucleic acids are stabilized for at least 15 days.

AngeroNA strongly reduces transportation and storage costs of nucleic acids in buffers and clinical specimens like whole blood. The buffer is easy to use and compatible with downstream extraction methods.

Infectious Diseases

Chemicals, cultures and high-purity reagents from Avantor deliver reliable laboratory performance for identifying and isolating pathogens. Our standards for precision, reproducibility and accuracy will meet your

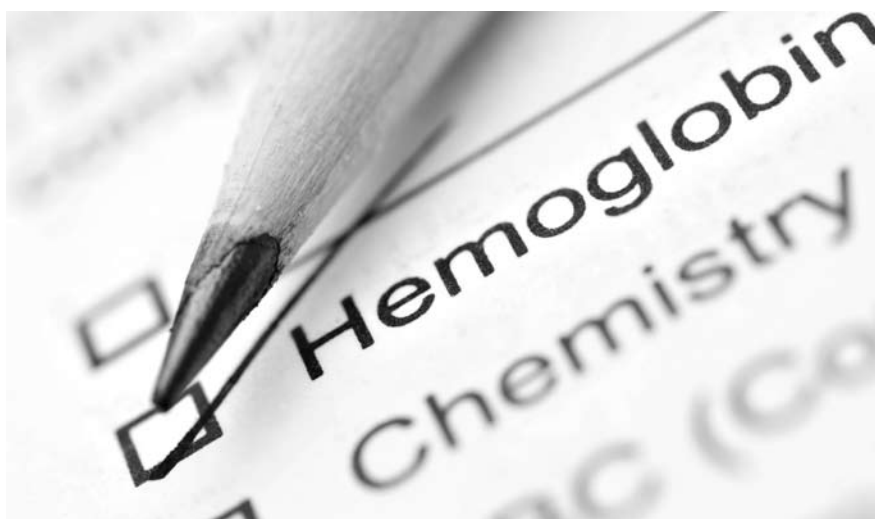
needs in every area: reagents, solvents, stains, fixatives and more.

Our laboratory chemicals are produced and packaged in ISO 9001:2000 certified facilities so you get the consistency for your applications requirements.

Some requirements are:

- Meet or exceed all the requirements outlined by the American Chemical Society (ACS)
- Offer lot to lot consistency
- Ensure consistent results
- Provide reproducible results time after time
- Are compatible with state-of-the art diagnostic equipment and methodology (e.g. PCR, CT/NG, sequencing)

Our complete range of solvents, solutions, stains and dyes are formulated for use in sample preparation for detection and analysis. Please see our products mentioned in our Catalog under Life Science.



Products By Application

Environmental Testing

The area of environmental testing is highly regulated with prescribed protocols testing for pollutants, such as heavy metals in all types of environmental samples—from groundwater to waste water streams to industrial waste. The test methods are rigorous and demanding, and suitable products need to be used throughout the protocols, from sample preparation to final analysis. J.T.Baker offers a range of products for environmental testing—from solvents to solid phase extraction disks to standards for instrument standardization and calibration. These products are of the highest purity and are specifically designed for use in environmental test methods.



Products for GC Analysis

J.T.Baker ULTRA RESI-ANALYZED grades of solvents are recommended for use in GC applications.

The rigorous demands of EPA extraction, concentration, and sample cleanup protocols drove the development of J.T.Baker solvents suitable for GC analysis. Our unique solvent stabilizer systems provide unmatched product stability and interference-free results. For more information on these products, please refer to the Analytical Chromatography section of this catalog, starting on page 23.

Liquid-Liquid Extraction

Liquid-liquid extraction is a method of separating sample components to isolate an analyte of interest. In environmental analyses, the process is typically done in a separation funnel with volumes of an aqueous sample and an organic, non-miscible solvent. Separation is accomplished by agitating the mixture and allowing it to settle into layers, then decanting the organic layer containing the desired analyte. Liquid-liquid extractions are generally done as sample preparation steps for further analysis.

The solvent used in the separation needs to be suitable for whatever instrument the further analysis is going to be done on. Generally, for environmental analyses, the methods call for analysis by gas chromatography (GC). J.T.Baker ULTRA RESI-ANALYZED are recommended for use in liquid-liquid extractions. For more information on these products, please refer to the Analytical Chromatography section of this catalog, starting on page 23.

Solid Phase Extraction

At one time, liquid-liquid extraction was the primary separation technique for environmental samples. In recent years, solid phase extraction (SPE) has taken over more and more of the separations of this type. The reasons are simple—speed, efficiency, and reproducibility are generally better with SPE. Far less solvent is used in the process, reducing costs and exposure of personnel to

hazardous solvent fumes. Separations are also done in a shorter time and multiple samples can easily be processed at one time on a vacuum processor. More detailed information on J.T.Baker solid-phase extraction products can be found within the chromatography section, starting on page 407.

J.T.Baker BAKERBOND Speedisk Extraction Disks

These patented 50 mm disks are designed specifically for environmental samples. The laminar configuration of the disks provides filtration capacity and inlet characteristics that maximize access of analyte molecules to the microparticulate sorbent. The design resists clogging and ensures high throughput, even when samples contain solids. Capacity, recovery, and precision are high due to the unique disk configuration and the performance of our BAKERBOND sorbents. These disks can be used with J.T.Baker extraction stations, or inexpensive adapters are available for use with other brands of extraction stations.

More detailed information on *Speedisk* Extraction Disks can be found within the chromatography section, starting on page 407.



J.T.Baker BAKERBOND Speedisk 50 mm Extraction Disks

Description	General application	Product number	Quantity per box
C ₁₈ (octadecyl) 50 mm disks for water samples	For Use in EPA Methods 500 Series, 608, SW 846/3535 and with slightly polar to non-polar industrial samples	8055-06	20
C ₁₈ (octadecyl) 50 mm disks for water samples, High capacity		8055-07	20
C ₁₈ Polar Plus 50 mm disks for water samples containing slightly polar to non-polar analytes	For extraction of slightly polar to moderately polar compounds such as sulfonylureas, phenols, chlorophenoxy acids and urones	8061-06	20
C ₁₈ XF (Extra filter) 50 mm disks for crude and dirty samples	For dirty samples: EPA method 608, 846 and slightly polar to non-polar industrial samples	8056-06	20
C ₈ (octyl) 50 mm disks for diquat/paraquat	For diquat, paraquat, EPA method 549.1	8057-06	20
H ₂ O Phobic DVB (DiVinylBenzene) 50 mm disks for chlorinated acids	For chlorinated acids, EPA Method 515.2. Slightly polar to non-polar analytes	8068-06	20
H ₂ O Phobic DVB (DiVinylBenzene) 50 mm disks, High capacity*		8068-07	20
H ₂ O Philic DVB (DiVinylBenzene) 50 mm disks for chlorinated acids	For SW846 hydrophobis to slightly hydrophilic compounds	8072-06	20
H ₂ O Philic DVB (DiVinylBenzene) 50 mm disks, High capacity*		8072-07	20
Oil & Grease 50 mm disks for hydrocarbons / Oil & Grease	For extraction of slightly polar to non-polar hydrocarbons, EPA method 1664, Rev.A	8060-06	20
SAX (strong Anion Exchanger) 50 mm disks for haloacetic acids / Dalapon	For EPA Method 552.1, haloacetic acids and Dalapon	8058-06	20

* High capacity: higher sorbent mass

Processors, Extraction Station and Accessories:

We offer a variety of J.T.Baker processors to meet your extraction needs in three ways:

- standard vacuum processors for flexibility of processing different SPE devices in the same experiment
- 48 and 96 positive pressure processors for exceptional precision, control, and reliability and
- *Speedisk* Extraction Station

For further information on these processors and available accessories, please see the Analytical Chromatography section of this catalog starting on page 23

EPA Methods for SPE and BAKERBOND Products

EPA Method	Analytes	Sorbent	Product Number
506	Phthalate and Adipate Esters	C ₁₈	8055-06
508.1	Organochlorine Pesticides, Herbicides, and Organohalides	C ₁₈ High Capacity	8055-07
515.2	Chlorinated Acids	H ₂ O-Phobic DVB	8068-06
525.2	Organic Compounds	C ₁₈	8055-06
526.1	Selected Semivolatile Organics	H ₂ O-Phobic DVB	8068-06
532.1	Phenylurea	C ₁₈	8055-06
549.2	Diquat and Paraquat	C ₈	8057-06
550.1	PAH's	C ₁₈	8055-06
552.1	Haloacetic Acids and Dalapon	SAX	8058-06
553.1	Benzidines and Nitrogen Pesticides	C ₁₈	8055-06
1664	Oil and Grease	Oil and Grease	8060-06
1668	PCB's	C ₁₈	8055-06
8041	Phenols	H ₂ O-Philic DVB	8072-07
8061A	Phthalate and Adipate Esters	C ₁₈	8055-06
8081A/8082	Organochlorine Pesticides and PCB's	C ₁₈ XF or H ₂ O-Phobic DVB	8056-06 or 8068-06
8100	PAH's	C ₁₈	8055-06
8141A	Organophosphorous Compounds	H ₂ O-Phobic DVB	8068-06
8270C	Semivolatile Organic Compounds	H ₂ O-Philic DVB	8072-07

For product specifications, packaging, and prices, please see the J.T.Baker brand A to Z section (pages 91-405) of this catalog or visit our web site at www.avantormaterials.com

Products By Application

Products for Trace Metal Analysis

One of the most frequent types of environmental analysis is trace metal determination in environmental samples. In order to conduct trace metal analyses by AA or ICP, the sample must generally be digested in acid first. J.T.Baker has a reputation for high-purity acids based on years of quality, consistency, and innovation. These products are part of the broadest acid portfolio available from any basic manufacturer of acids. Trace metal analysis also requires standards for creation of calibration curves and for instrument standardization. J.T.Baker offers a wide range of single and multi-element standards, many designed specifically for environmental applications. For further information on acids for trace metal analysis, please see the Spectrometry/Element Analysis section of this catalog. For information on standards for use in trace metal applications, please see the Analytical Standards section of this catalog.

Purge and Trap

Purge and Trap or headspace analysis is a sample preparation technique for gas chromatography (GC) applications used when preconcentration or purification are required for a sample prior to injection into the GC. The Purge and Trap process separates and concentrates volatile sample components in a sorbent trap, which is then heated rapidly to desorb the volatile components onto the GC instrument.

J.T.Baker ULTRA RESI-ANALYZED Methanol (Product Number 9077) was designed specifically for use in Purge and Trap analysis applications. In addition to the usual specifications for GC applications (high assay, low residue, titratable acid, titratable base, water), this product is tested for volatile organic traces that could interfere with the purge and trap analysis. The product is tested to be below the required EPA quantitation limit (CRQL) by both photoionization and electroconductivity detection methods.

For product specifications, and packaging, please see the A to Z section of this catalog or visit our web site at www.avantormaterials.com

Sodium Sulfate

Pesticide residue analysis methods require the use of high quality sodium sulfate.

J.T.Baker ULTRA RESI-ANALYZED Sodium Sulfate (Product Number 3375) is recommen-

ded. This product is ideally suited for this use and is tested for hexane extractable impurities

Environmental Reference Standards

The availability of reliable, accurate standards is critical to the success of many quantitative instrumental analyses. Avantor Performance Materials provides an array of J.T.Baker single element and multi-element standards for AA and ICP applications. We offer single element AA standards and single and multi-element Plasma standards for your convenience, including many standards specifically for EPA protocols and the EPA Contract Laboratory Program (CLP). For more information on standards for trace element analysis, please see the Analytical Standards section of this catalog.

Other Products for Environmental Testing

Product Line	Full Description Location
HPLC Solvents	Analytical Chromatography section starting on page 23
LC/MS Solvents	Analytical Chromatography section starting on page 23
UHPLC Solvents	Analytical Chromatography section starting on page 23
HPLC Columns	Analytical Chromatography section starting on page 23

Academic

Academic institutions have unique requirements for chemicals and reagents. Academic researchers may require the highest purity products, while the chemistry classrooms may need standard reagent grades of chemicals. Tightly controlled budgets require getting the best value for the lowest cost. Chemicals need to be of outstanding quality and work as expected. Known chemical impurities need to be identified and quantified. Safety is always a critical concern because inexperienced students are often handling chemical bottles. For this reason, academic institutions often place a premium on safety information that accompanies chemical products.

J.T.Baker chemicals fit the needs of academic institutions very well. When the highest purity products are needed for research applications, J.T.Baker salts, solvents, acids, and specialty products provide very high characterization and purity. J.T.Baker chemical products brands offer enhanced safety via packaging options.

Research Products

Academic researchers demand a lot from their chemicals as they are putting their personal reputation on the line with each project. They need to control variables in their experiments. They need lot-to-lot consistency so that their reagents perform the same way over extended periods of time. They need to know what impurities are in their reagents, and at what levels. They may also need reagents with minimal impurities, such as water or peroxides.

Analytical Products

J.T.Baker products have a long history of excellence in product quality, consistency, and innovation making it the brand that research scientists around the world turn to for critical applications. J.T.Baker products are specifically designed, manufactured, highly characterized, and function-tested to provide the highest levels of performance. We have

special packaging to protect the purity of our products from time of packaging through delivery to your lab bench.

Please see the Analytical Chromatography section of this catalog starting on page 23 for more information about these solvents.

For additional information about products used in specific methods, please see the Analytical Methods section in the front of this catalog. For a complete listing of available J.T.Baker products, please see the A to Z section of this catalog, or visit our web site at www.avantormaterials.com.

Discovery Products

J.T.Baker has provided researchers with the tools to enable discovery in multiple disciplines for decades. Products used in drug discovery, such as the J.T.Baker line of ULTRAPURE BIOREAGENTS, which deliver crucial parameters to molecular biologists, including assay purity ranging from 98% to above 99.9%, no detectable DNase, RNase and Protease, low heavy metal content, and

low insolubles. The product line also includes biological buffers that are non-toxic to cells and are not absorbed through cell membranes. For a complete list of products, please see the Drug Discovery section of this catalog starting on page 53 or visit our web site at www.avantormaterials.com.



Products By Application

General Reagents

We also offer a complete line of J.T.Baker BAKER ANALYZED ACS reagents. ACS products are tested to standards set by the American Chemical Society and many of our reagents surpass these requirements J.T.Baker

ACS reagents offer the best value for the money. Our reagents are designed and manufactured to perform consistently time after time and packaged in a variety of options, which enhance safety and promote green initiatives.

BAKER ANALYZED ACS REAGENTS

Product	Product Number
Acetic Anhydride	6004
Acetone	9006
Acetonitrile	8004
Alcohol, Anhydrous, iso-Amyl Alcohol	9401
	8010
Aniline	7004
1-Butanol	8017
tert-Butyl Alcohol	9056
Chloroform	9180
Cyclohexane	8026
1,2-Dichloroethane	8042
Dimethylformamide	7032
Dimethyl Sulfoxide	9224
p-Dioxane	8031
Ether, Anhydrous	8254
Ether	8033
Ethyl Acetate	8037
Formaldehyde, 37% Solution	7040
Formamide	7042
Glycerol, Anhydrous	2136
Hexanes	8205
Hexanes	8044
Isobutyl Alcohol	9044
Methanol	9070
Methanol, Anhydrous	9049
Methylene Chloride	9324
Monoethanolamine	9314
2-Propanol	9084
Pyridine	8073
Toluene	9460
2,2,4-Trimethylpentane	8217
Xylenes	8080

For packaging and specifications, refer to the individual product listings found on pages 91-405

Instrument Calibration and Standards

The availability of reliable, accurate standards is critical to the success of your instrumental analyses. Analytical standards are needed to create calibration curves for quantitative analysis and for standardization of instruments used in a variety of elemental analysis applications. Standards must be stable and contain highly accurate concentrations of the element being tested for.

J.T.Baker understands your needs and provides an array of J.T.Baker standards for atomic absorption and ICP applications. We offer single element AA standards and single

and multi-element plasma standards for your convenience, including many standards specifically for EPA protocols and the EPA Contract Laboratory Program (CLP).

Atomic Absorption Standards

J.T.Baker atomic absorption standards are prepared from metals and salts of 99.99% spectral purity in specially selected matrices. Standards are available for 35 elements in 1,000 µg/ml concentrations packaged in 100 ml bottles. All standards are verified against

standards traceable to the National Institute of Standards and Technology (NIST) Standard Reference Material (SRM) numbers, which are printed on the label.

J.T.Baker Atomic Absorption Standards

Description	Concentration	Solute	Size	Product Number
Aluminum	1,000 µg/ml	Al	100 ml	6801
Antimony	1,000 µg/ml	Sb	100 ml	6802
Arsenic	1,000 µg/ml	As	100 ml	6803
Barium	1,000 µg/ml	Ba(NO ₃) ₂	100 ml	6804
Beryllium	1,000 µg/ml	Be	100 ml	6805
Bismuth	1,000 µg/ml	Bi	100 ml	6806
Cadmium	1,000 µg/ml	Cd	100 ml	6807
Calcium	1,000 µg/ml	CaCO ₃	100 ml	6808
Chromium	1,000 µg/ml	Cr	100 ml	6809
Cobalt	1,000 µg/ml	Co	100 ml	6810
Copper	1,000 µg/ml	Cu	100 ml	6811
Iron	1,000 µg/ml	Fe	100 ml	6812
Lead	1,000 µg/ml	Pb	100 ml	6813
Lithium	1,000 µg/ml	Li ₂ CO ₃	100 ml	6814
Magnesium	1,000 µg/ml	Mg	100 ml	6815
Manganese	1,000 µg/ml	Mn	100 ml	6816
Mercury	1,000 µg/ml	Hg	100 ml	6817
Molybdenum	1,000 µg/ml	Mo	100 ml	6818
Nickel	1,000 µg/ml	Ni	100 ml	6819
Potassium	1,000 µg/ml	KNO ₃	100 ml	6820
Silver	1,000 µg/ml	Ag	100 ml	6821
Sodium	1,000 µg/ml	Na ₂ CO ₃	100 ml	6822
Strontium	1,000 µg/ml	Sr(NO ₃) ₂	100 ml	6823
Tin	1,000 µg/ml	Sn	100 ml	6824
Titanium	1,000 µg/ml	(NH ₄) ₂ TiF ₆	100 ml	6825
Vanadium	1,000 µg/ml	V ₂ O ₅	100 ml	6826
Zinc	1,000 µg/ml	Zn	100 ml	6827

Products By Application

Single Element Plasma Standards

Produced from raw materials with greater than 99.999% spectral purity, these J.T.Baker

standards are packaged in 100 ml bottles that are acid leached and triple rinsed. Each standard is analyzed for the calibrating element, as well as trace impurities of over

70 additional elements. All solutions are NIST traceable. Products are available in concentrations of 1,000 µg/ml or 10,000 µg/ml in 100 ml bottles.

J.T.Baker Single Element Plasma Standards

Description	Concentration	Solute	Matrix	Size	Product Number
Aluminum	1,000 µg/ml	Al	2% HNO ₃	100 ml	5701
	10,000 µg/ml			100 ml	5716
Antimony	1,000 µg/ml	Sb	2% HNO ₃	100 ml	5703
	10,000 µg/ml			100 ml	5717
Arsenic	1,000 µg/ml	As	2% HNO ₃	100 ml	5704
	10,000 µg/ml			100 ml	5718
Barium	1,000 µg/ml	Ba(NO ₃) ₂	2% HNO ₃	100 ml	5705
	10,000 µg/ml			100 ml	5719
Beryllium	1,000 µg/ml	Be ₂ O(C ₂ H ₃ O ₂) ₆	2% HNO ₃	100 ml	5706
	10,000 µg/ml			100 ml	5720
Bismuth	1,000 µg/ml	Bi	2 % HNO ₃	100 ml	5707
	10,000 µg/ml		10 % HNO ₃	100 ml	5721
Boron	1,000 µg/ml	H ₃ BO ₃	2% NH ₄ OH	100 ml	5708
	10,000 µg/ml			100 ml	5722
Cadmium	1,000 µg/ml	Cd	2% HNO ₃	100 ml	5709
	10,000 µg/ml			100 ml	5723
Calcium	1,000 µg/ml	CaCO ₃	2% HNO ₃	100 ml	5710
	10,000 µg/ml		5% HNO ₃	100 ml	5724
Chromium	1,000 µg/ml	Cr	2% HNO ₃	100 ml	5711
	10,000 µg/ml			100 ml	5727
Cobalt	1,000 µg/ml	Co	2% HNO ₃	100 ml	5712
	10,000 µg/ml			100 ml	5728
Copper	1,000 µg/ml	Cu	2% HNO ₃	100 ml	5713
	10,000 µg/ml			500 ml	5729
Gallium	1,000 µg/ml	Ga	1% HNO ₃	100 ml	5714
	10,000 µg/ml			100 ml	5758
Germanium	1,000 µg/ml	Ge	H ₂ O/ Trace HF	100 ml	5762
	10,000 µg/ml			100 ml	5759
Gold	1,000 µg/ml	Au	5% HCl	100 ml	5763
	10,000 µg/ml			100 ml	5730
Iron	1,000 µg/ml	Fe	2% HNO ₃	100 ml	5764
	10,000 µg/ml			100 ml	5731
Lead	1,000 µg/ml	Pb	2% HNO ₃	100 ml	5765
	10,000 µg/ml			100 ml	5732
Lithium	1,000 µg/ml	Li ₂ CO ₃	2% HNO ₃	100 ml	5766
	10,000 µg/ml		7% HNO ₃	100 ml	5733
Magnesium	1,000 µg/ml	Mg	2% HNO ₃	100 ml	5767
	10,000 µg/ml			100 ml	5734
Manganese	1,000 µg/ml	Mn	2% HNO ₃	100 ml	5793
	10,000 µg/ml			100 ml	5735
Mercury	1,000 µg/ml	Hg	2% HNO ₃	100 ml	5768
	10,000 µg/ml			100 ml	5736

J.T.Baker Single Element Plasma Standards

Description	Concentration	Solute	Matrix	Size	Product Number
Molybdenum	1,000 µg/ml	Mo	2% NH ₄ OH	100 ml	5769
	10,000 µg/ml			100 ml	5737
Nickel	1,000 µg/ml	Ni	2% HNO ₃	100 ml	5770
	10,000 µg/ml			100 ml	5738
Niobium	1,000 µg/ml	NbCl ₅	H ₂ O/Trace HF	100 ml	5771
	10,000 µg/ml			100 ml	5760
Palladium	1,000 µg/ml	Pd	2% HNO ₃	100 ml	5772
	10,000 µg/ml			100 ml	5739
Platinum	1,000 µg/ml	Pt	5% HCl	100 ml	5773
	10,000 µg/ml		10% HCl	100 ml	5740
Potassium	1,000 µg/ml	KNO ₃	2% HNO ₃	100 ml	5774
	10,000 µg/ml			100 ml	5741
Scandium	1,000 µg/ml	ScO ₃	2% HNO ₃	100 ml	5776
	10,000 µg/ml		7% HNO ₃	100 ml	5742
Selenium	1,000 µg/ml	Se	2% HNO ₃	100 ml	5777
	10,000 µg/ml			100 ml	5743
Silicon	1,000 µg/ml	Si	2% HNO ₃	100 ml	5778
	10,000 µg/ml			100 ml	5744
Silver	1,000 µg/ml	Ag	2% HNO ₃	100 ml	5779
	10,000 µg/ml			100 ml	5745
Sodium	1,000 µg/ml	Na ₂ CO ₃	2% HNO ₃	100 ml	5780
	10,000 µg/ml			100 ml	5746
Strontium	1,000 µg/ml	Sr(NO ₃) ₂	2% HNO ₃	100 ml	5781
	10,000 µg/ml			100 ml	5747
Tantalum	1,000 µg/ml	TaCl ₅	H ₂ O/Trace HF	100 ml	5782
	10,000 µg/ml		1% HF	100 ml	5748
Tellurium	1,000 µg/ml	Te	10% HCl	100 ml	5783
	10,000 µg/ml:		40% HCl	100 ml	5749
Thallium	1,000 µg/ml	Tl	2% HNO ₃	100 ml	5784
	10,000 µg/ml			100 ml	5761
Thorium	1,000 µg/ml	Th(NO ₃) ₄	2% HNO ₃	100 ml	5785
	10,000 µg/ml		5% HNO ₃	100 ml	5750
Tin	1,000 µg/ml	Sn	2% HNO ₃ /Trace HF	100 ml	5786
	10,000 µg/ml			100 ml	5751
Titanium	1,000 µg/ml	Ti	2% HNO ₃ /HF	100 ml	5787
	10,000 µg/ml			100 ml	5752
Uranium	1,000 µg/ml	U ₃ O ₈	1% HNO ₃	100 ml	5788
	10,000 µg/ml			100 ml	5753
Vanadium	1,000 µg/ml	V ₂ O ₅	2% HNO ₃	100 ml	5789
	10,000 µg/ml		10% HNO ₃	100 ml	5754
Yttrium	1,000 µg/ml	Y ₂ O ₃	1% HNO ₃	100 ml	5790
	10,000 µg/ml			100 ml	5755
Zinc	1,000 µg/ml	Zn	2% HNO ₃	100 ml	5791
	10,000 µg/ml			100 ml	5756
Zirconium	1,000 µg/ml	ZrCl ₂ O	1% HNO ₃	100 ml	5792
	10,000 µg/ml			100 ml	5757

Products By Application

Multi-Element Plasma Standards

These J.T.Baker standards are available for water and solid waste analysis for use in

conjunction with EPA SW-846 Methods 6010 and 200.7, as well as Manual 600/7-79-020, Methods for Chemical Analysis of Water and Waste Water. The accompanying Certificate of

Analysis lists actual concentrations of each element to help control your analysis. All standards are traceable to NIST.

J.T.Baker Multi-Element Plasma Standards

Description	Concentration		Size	Product Number
	Elements	(µg/ml)		
Mixed Calibration Standard III EPA Method: SW-846; 6010 Section 5.4; 200.7 Section 7.4 (Matrix: 2% HNO ₃)	Arsenic	500	100 ml	6003-01
	Molybdenum	100		
	Silicon	100		
Mixed Calibration Standard IV EPA Method: SW-846; 6010 Section 5.4; 200.7 Section 7.4 (Matrix: 5% HNO ₃)	Aluminum	200	100 ml	6004-01
	Calcium	1,000		
	Chromium	20		
	Nickel	20		
	Potassium	400		
	Sodium	200		
Mixed Calibration Standard V EPA Method: SW-846; 6010 Section 5.4; 200.7 Section 7.4 (Matrix: 5% HNO ₃ and a trace of tartaric acid)	Antimony	200	100 ml	6005-01
	Boron	100		
	Magnesium	1,000		
	Silver	50		
	Thallium	200		
Interference Check Standard I EPA Method: SW-846; 6010 Section 5.4; 200.7 Section 7.4 (Matrix: 5% HNO ₃)	Arsenic	1,000	100 ml	6011-01
	Barium	300		
	Beryllium	100		
	Cadmium	300		
	Chromium	300		
	Cobalt	300		
	Copper	300		
	Lead	1,000		
	Manganese	200		
	Mercury	50		
	Nickel	300		
	Potassium	20,000		
	Selenium	500		
	Silver	300		
	Thallium	1,000		
	Vanadium	300		
	Zinc	300		
Interference Check Standard II EPA Method: SW-846; 6010 Section 5.7; 200.7 Section 7.6.2 (Matrix: 5% HNO ₃ and a trace of HF)	Boron	500	100 ml	6012-01
	Molybdenum	300		
	Silicon	230		
	Titanium	1,000		
Interference Check Standard IV EPA Method: SW-846; 6010 Section 5.7; 200.7 Section 7.6.2 (Matrix: 5% HNO ₃)	Aluminum	1,200	100 ml	6014-01
	Calcium	6,000		
	Iron	5,000		
	Magnesium	3,000		
	Sodium	1,000		

J.T.Baker Multi-Element Plasma Standards

Description	Concentration		Size	Product Number
	Elements	(µg/ml)		
Primary Drinking Water Standard I EPA Method: SW-846; 1310 and 40 CFR Part 141 (Matrix: 2% HNO ₃)	Arsenic	10	100 ml	6021-01
	Barium	100		
	Cadmium	5		
	Chromium	10		
	Lead	10		
	Selenium	5		
	Silver	10		
Trace Metal Standard I EPA Method: Manual 600/4-79-020 Methods for Chemical Analysis of Water and Wastewater (Matrix: 5% HNO ₃)	Aluminum	500	100 ml	6031-01
	Arsenic	100		
	Beryllium	100		
	Cadmium	25		
	Chromium	100		
	Cobalt	100		
	Copper	100		
	Iron	100		
	Lead	100		
	Manganese	100		
	Mercury	5		
	Nickel	100		
	Selenium	25		
	Vanadium	250		
	Zinc	100		
Trace Metal Standard III EPA Method: Manual 600/4-79-020 Methods for Chemical Analysis of Water and Wastewater (Matrix: 2% HNO ₃)	Barium	500	100 ml	6033-01
	Calcium	500		
	Magnesium	100		
	Molybdenum	500		
	Potassium	100		
	Sodium	500		

Products By Application

CLP Plasma Standards

These J.T.Baker standard kits are designed for the EPA Contract Laboratory Program (CLP).

All standards are traceable to NIST and include only the elements required for strict adherence to the CLP program.

CLP PLASMA STANDARDS

Description	Elements Concentration (µg/ml)				Product Number
	Solution I		Solution II		
ICV Solution I & II Solution 1 Matrix: 5% HNO ₃ Solution 2 Matrix: 20% HCl Kit Contents: 100 ml of each solution	Barium	100	Aluminum	100	6103-01
	Beryllium	40	Antimony	100	
	Cadmium	50	Arsenic	100	
	Cobalt	100	Calcium	1,000	
	Copper	100	Chromium	100	
	Iron	100	Magnesium	1,000	
	Lead	100	Potassium	1,000	
	Manganese	100	Selenium	100	
	Nickel	100	Sodium	1,000	
	Silver	20	Vanadium	100	
	Thallium	100			
	Zinc	100			
CCV Solution I & II Solution 1 Matrix: 5% HNO ₃ Solution 2 Matrix: 20% HCl Kit Contents: 100 ml of each solution	Barium	500	Aluminum	500	6106-01
	Beryllium	200	Antimony	500	
	Cadmium	250	Arsenic	500	
	Cobalt	500	Calcium	5,000	
	Copper	500	Chromium	500	
	Iron	500	Magnesium	5,000	
	Lead	500	Potassium	5,000	
	Manganese	500	Selenium	500	
	Nickel	500	Sodium	5,000	
	Silver	100	Vanadium	500	
	Thallium	500			
	Zinc	500			
ICS Solutions AB-1 and AB-2 Solution 1 Matrix: 5% HNO ₃ Solution 2 Matrix: 20% HCl Kit Contents: 100 ml of each solution	Beryllium	50	Barium	50	6119-01
	Cadmium	100	Chromium	50	
	Cobalt	50	Vanadium	50	
	Copper	50			
	Lead	100			
	Manganese	50			
	Nickel	100			
	Silver	100			
	Zinc	100			
Water Standard I & II Solution 1 Matrix: 5% HNO ₃ Solution 2 Matrix: 20% HCl Kit Contents: 100 ml of each solution	Beryllium	5	Aluminum	200	6122-01
	Cadmium	5	Antimony	50	
	Cobalt	50	Arsenic	200	
	Copper	25	Barium	200	
	Iron	100	Chromium	20	
	Lead	50	Selenium	200	
	Manganese	50	Vanadium	50	
	Nickel	50			
	Silver	5			
	Thallium	200			
	Zinc	50			

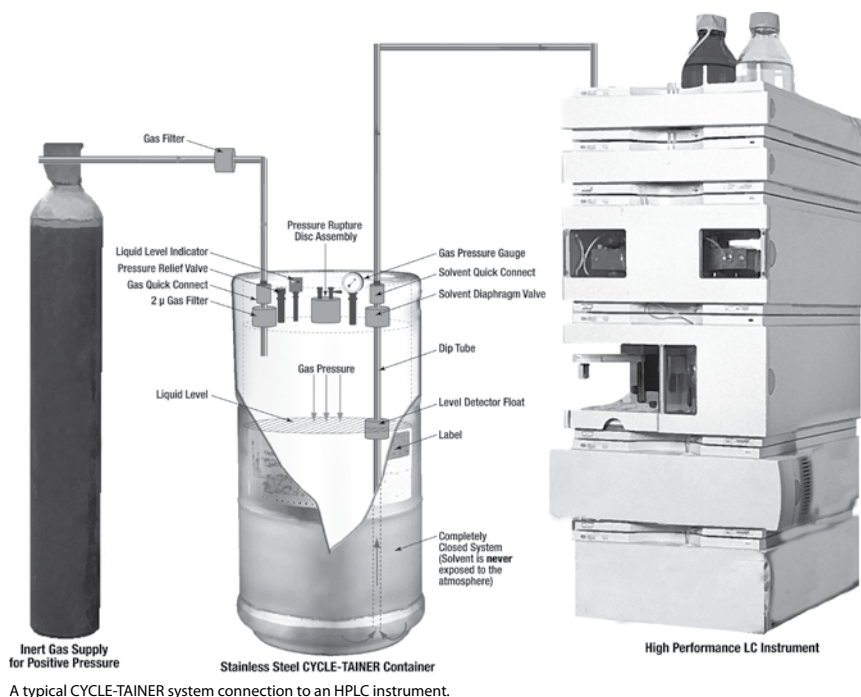
Solvent and Reagent Delivery Systems

J.T.Baker CYCLE-TAINER Solvent Delivery System

If you want to increase productivity and you routinely use high purity solvents in your work, you should consider the J.T.Baker CYCLE-TAINER solvent delivery system for your solvent needs. The CYCLE-TAINER system is a customer dedicated, 100% reusable, positive-pressure, closed dispensing system for J.T.Baker high purity solvents and reagents.

There are four primary reasons why the J.T.Baker CYCLE-TAINER solvent delivery system is a better solution than purchasing your solvents in bottles or one way drums.

Solvent quality is completely protected to your point of use with the closed CYCLE-TAINER system. An inert gas blanket and positive-pressure dispensing prevent solvent contact with possible contaminants such as air and water. Improve your productivity by eliminating frequent solvent testing due to opened bottles or multiple lots of solvent. The reproducibility of your applications may also be improved with consistent solvent quality.



Green initiatives are enhanced. The J.T.Baker CYCLE-TAINER solvent delivery system is the greenest packaging available, since it is 100% reusable and generates no solid waste. It eliminates the need for additional packaging, which reduces storage space requirements and greatly reduces your solid waste stream. Eliminating bottle rinsing improves productivity and prevents addition of solvent residues to your waste water.

Safety is enhanced by the stainless steel construction and built in safety features of the J.T.Baker CYCLE-TAINER solvent delivery system. Breakage and spills of glass bottles are eliminated. Employee exposure to hazardous solvent vapors is greatly reduced by delivering solvent directly to the point of use. Positive-pressure dispensing enables direct connection to instruments or solvent networks. Eliminating bottle rinsing prevents employee exposure to hazardous solvent vapors, improves productivity, and prevents addition of solvent residues to your waste water.

Scale up is made easy with our innovative Beaker to Bulk approach. Using the J.T.Baker CYCLE-TAINER solvent delivery system for your solvents ensures quality in the laboratory, consistency during the scale up process, and the volume requirements of production, since we provide identical product in all sizes. Improve your productivity by eliminating variables with consistent solvent quality at all stages of your application.



The CYCLE-TAINER system is available in a size to fit any application.

Solvent and Reagent Delivery Systems

CYCLE-TAINER System Container Features

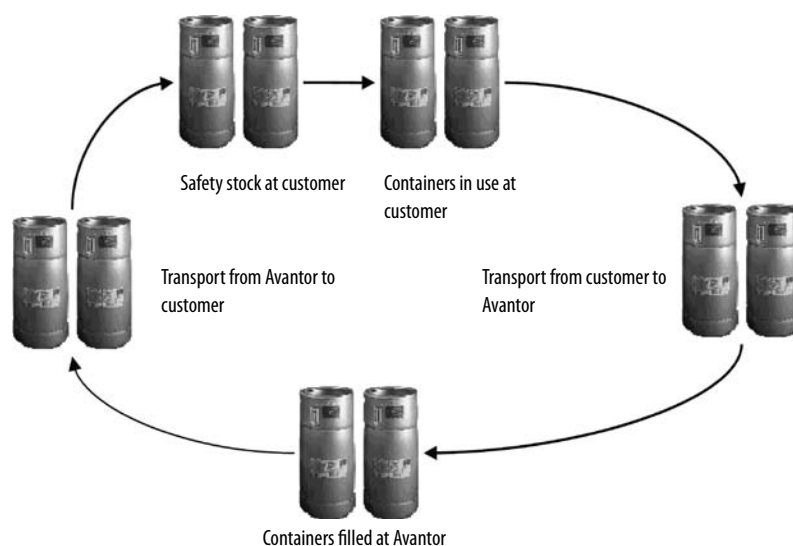
The J.T.Baker CYCLE-TAINER solvent delivery system is designed with built-in safety features that strengthen the system and provide error-free connections and maximum container control during operation.

A pressure relief valve to handle minor pressure excursions during operation and a pressure rupture disc to handle major pressure excursions provide the utmost safety in your lab.

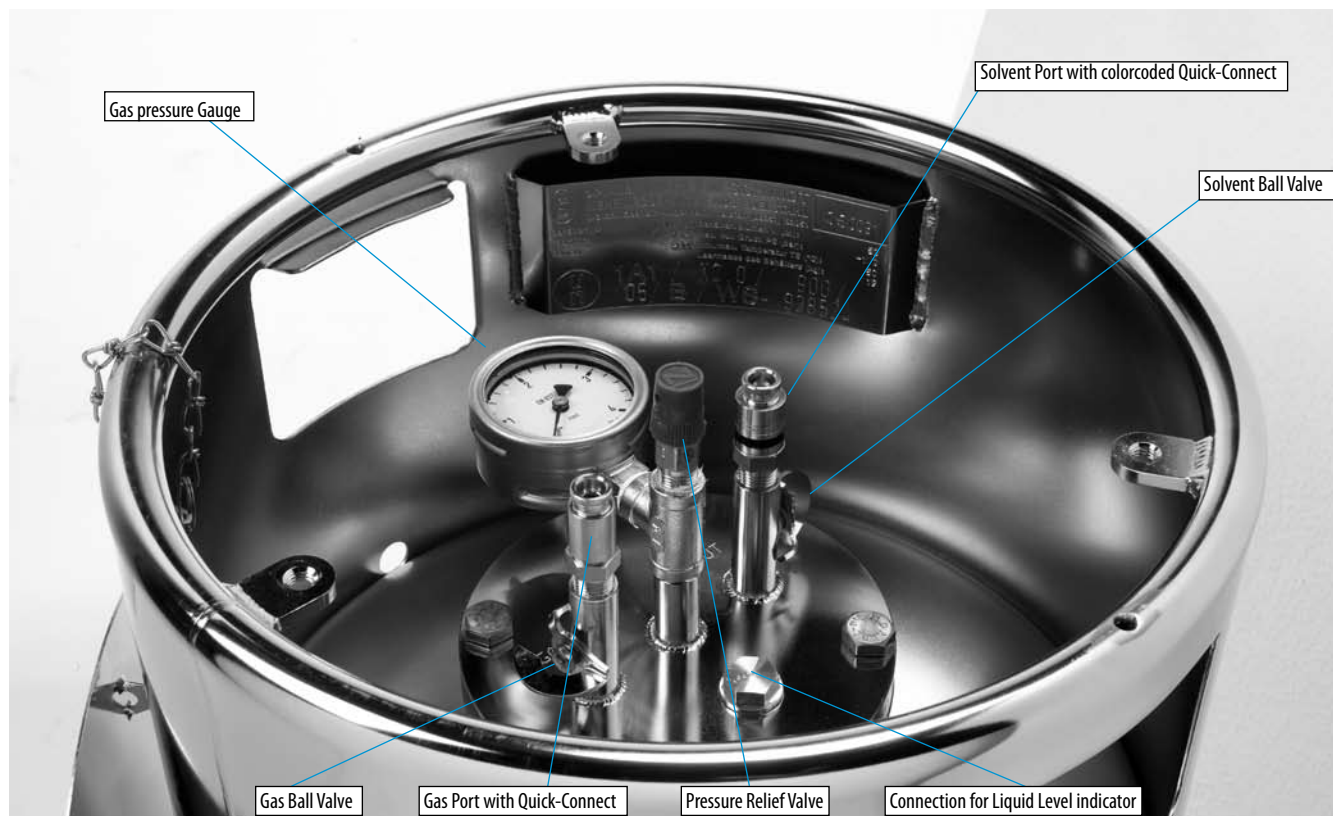
Two color-coded, keyed quick-connects prevent improper hook-ups and automatically shut off solvent flow once disconnected.

A pressure gauge monitors the container pressure.

The J.T.Baker CYCLE-TAINER solvent delivery system is designed and certified with your safety in mind.



Flow chart CYCLE-TAINER system loop from Avantor to customer and back.



CYCLE-TAINER design.

CYCLE-TAINER Specifications

Volume	20 l	50 l	200 l	1000 l	1400 l
Diameter (mm)	363	363	600	1200	1200
Height (mm)	466	755	1060	1610	1830
Weight (kg)	14.0	19.1	52.0	215	247
Max capacity L	24.5	53	225	1120	1500
Max working pressure (Bar)	3	3	3	3	3
Fusing plate	not present	not present	not present	present	present
Pressure Relief (Bar)	3,4	3,4	3,4	3,4	3,4
(External) testing	UN / CE	UN / CE	UN / CE	UN / CE	UN / CE

CYCLE-TAINER System Dispense Options and Accessories

We offer the Cycle-tap dispenser which allows unmeted dispensing of solvents through a thumb operated toggle valve, which regulates solvent flow by pressing or releasing.

CYCLE-TAINER System Accessories

In addition to dispense options, we offer a range of high quality accessories for use with the J.T.Baker CYCLE-TAINER solvent delivery system, as gas and solvent quick connectors, liquid level indicator etc. For more information please contact us through your Avantor Performance Materials sales representative.





Alphabetical Product Listing

Acetdimethylamide

See Dimethylacetamide

Acetic Acid

6903 99-100%, glacial / ULTREX II Ultrapure Reagent

► CH₃COOH

M = 60.05 g/mol

1 l = 1.05 kg

FLASHPOINT 40 °C

CAS NO. 64-19-7

EINECS 200-580-7

NC CODE 2915 21 000

EC INDEX NO. 607 002 00 6

UN/ID NO. 2789

ADR/RID 8 CF1

IMDG 8/II

H: H226-H314

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay (CH₃COOH)

min. 99.0%

Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 50
Antimony (Sb)	max. 50
Arsenic (As)	max. 50
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 50
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 10
Cobalt (Co)	max. 10
Copper (Cu)	max. 50
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 50
Lanthanum (La)	max. 1
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 50
Manganese (Mn)	max. 10
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 50

Platinum (Pt)	max. 50
Potassium (K)	max. 50
Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 50
Rubidium (Rb)	max. 10
Ruthenium (Ru)	max. 50
Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 50
Sodium (Na)	max. 100
Strontium (Sr)	max. 10
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 50
Titanium (Ti)	max. 10
Tungsten (W)	max. 10
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 50
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6903.0500	500 ml Teflon	

IMPORTANT: Material will freeze if stored below 17°C (63°F).

Acetic Acid

9515-03 99-100%, glacial / 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

► CH₃COOH

M = 60.05 g/mol

1 l = 1.05 kg

FLASHPOINT 40 °C

CAS NO. 64-19-7

EINECS 200-580-7

NC CODE 2915 21 000

EC INDEX NO. 607 002 00 6

UN/ID NO. 2789

ADR/RID 8 CF1

IMDG 8/II

H: H226-H314

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay (by GC) (corrected for water)

min. 99.7%

Residue after Evaporation

max. 0.0005%

Water (H₂O) (by Karl Fischer titrn.)

max. 0.1%

Physical Data (not specifications):

Density (g/ml) at 20°C	1.049
Elutropic Value (on Al ₂ O ₃), °	1.0
Polarity Index ¹	6.2
Solvent Group ¹	4

Ultraviolet Absorbance (1.00-cm path vs water):

at 280 nm	max. 0.05
at 350 nm	max. 0.01

¹ Snyder, L.R., J.Chromatography, 92, 223-230 (1974)

PRODUCT NO.	PACKING	CONT. BOX
9515-03	2.5 l Glass	4

IMPORTANT: Material will freeze if stored below 17°C (63°F).

Acetic Acid

99-100%, glacial / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis / ACS

9524

► CH₃COOH

M = 60.05 g/mol

1 l = 1.05 kg

FLASHPOINT 40 °C

CAS NO. 64-19-7

EINECS 200-580-7

NC CODE 2915 21 000

EC INDEX NO. 607 002 00 6

UN/ID NO. 2789

ADR/RID 8 CF1

IMDG 8/II

H: H226-H314

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets ACS Specifications

Assay (by GC) (corrected for water)	min. 99.9%
Acetaldehyde	max. 0.005%
Acetic anhydride ((CH ₃ CO) ₂ O)	max. 0.01%
Color (APHA)	max. 10
Dilution Test	passes test
Residue after Evaporation	max. 5 ppm
Solubility in Water	passes test
Specific Gravity at 20°C/20°C	min. 1.048
Substances Reducing Dichromate	passes test
Substances Reducing KMnO ₄	passes test
Titrate Base (meq/g)	max. 0.0004

Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Arsenic and Antimony (as As)	max. 5
Barium (Ba)	max. 20
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 50
Boron (B)	max. 10
Cadmium (Cd)	max. 5
Calcium (Ca)	max. 100
Chromium (Cr)	max. 50
Cobalt (Co)	max. 10
Copper (Cu)	max. 10
Germanium (Ge)	max. 50
Heavy Metals (as Pb)	max. 300
Iron (Fe)	max. 50
Lead (Pb)	max. 10
Lithium (Li)	max. 50
Magnesium (Mg)	max. 50
Manganese (Mn)	max. 5
Mercury (Hg)	max. 5
Nickel (Ni)	max. 10
Potassium (K)	max. 200
Silicon (Si)	max. 50
Silver (Ag)	max. 5

Sodium (Na)	max. 500
Strontium (Sr)	max. 5
Tin (Sn)	max. 10
Titanium (Ti)	max. 300
Zinc (Zn)	max. 10

Trace Impurities (in ppm):

Chloride (Cl)	max. 0.5
Phosphate (PO ₄)	max. 0.5
Sulfate (SO ₄)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
9524.0500	500 ml	6
9524.2500	2.5 l	6

About 174N.

IMPORTANT: Material will freeze if stored below 17°C (63°F).

Acetic Acid

99-100%, glacial / 'BAKER ANALYZED' / ACS

6052

► CH₃COOH

M = 60.05 g/mol

1 l = 1.05 kg

FLASHPOINT 40 °C

CAS NO. 64-19-7

EINECS 200-580-7

NC CODE 2915 21 000

EC INDEX NO. 607 002 00 6

UN/ID NO. 2789

ADR/RID 8 CF1

IMDG 8/II

H: H226-H314

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Exceeds ACS Specifications

Assay	min. 99.7%
Acetic anhydride ((CH ₃ CO) ₂ O)	max. 0.01%
Color (APHA)	max. 10
Dilution Test	passes test
Residue after Evaporation	max. 0.001%
Substances Reducing Dichromate	passes test
Substances Reducing KMnO ₄	passes test
Titrate Base (meq/g)	max. 0.0004

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.1
Arsenic (As)	max. 0.05
Chloride (Cl)	max. 1
Copper (Cu)	max. 0.1
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.2
Nickel (Ni)	max. 0.1
Sulfate (SO ₄)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
6052.1000	1 l	6
6052.1000PE	1 l HDPE	6
6052.2500	2.5 l	4
6052.2500PE	2.5 l HDPE	4
6052.9025	25 l	

Acetic Acid

6003 99-100%, glacial / 'BAKER'

► CH₃COOH

M = 60.05 g/mol

1 l = 1.05 kg

FLASHPOINT 40 °C

CAS NO. 64-19-7

EINECS 200-580-7

NC CODE 2915 21 000

EC INDEX NO. 607 002 00 6

UN/ID NO. 2789

ADR/RID 8 CF1

IMDG 8/II

H: H226-H314

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets Reagent Specifications for testing Ph. Eur.

monographs

Assay	99.6-100.5%
Appearance	passes test
Chlorides (as Cl)	max. 25 mg/l
Freezing Point	min. 15.8 °C
Heavy Metals (as Pb)	max. 5 ppm
Identification	passes test
Iron (Fe)	max. 5 ppm
Reducing Substances	passes test
Residue on Evaporation	max. 0.005%
Sulfates (as SO ₄)	max. 50 mg/l

Additional Specification(s):

Substances Reducing Dichromate	passes test
Water (H ₂ O)	max. 0.4%

PRODUCT NO.	PACKING	CONT. BOX
6003.1000	1 l	6
6003.2500	2.5 l	4

Stored in an airtight container.

Acetic Anhydride

6004 97% / 'BAKER ANALYZED' / ACS

► (CH₃CO)₂O

M = 102.09 g/mol

1 l = 1.08 kg

FLASHPOINT 49 °C

CAS NO. 108-24-7

EINECS 203-564-8

NC CODE 2915 24 000

EC INDEX NO. 607 008 00 9

UN/ID NO. 1715

ADR/RID 8 CF1

IMDG 8/II

H: H226-H302-H314-H332

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets ACS Specifications

Assay	min. 97.0%
Phosphate (PO ₄)	max. 0.001%
Residue after Evaporation	max. 0.003%
Substances Reducing KMnO ₄	passes test

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 2
Iron (Fe)	max. 5
Sulfate (SO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
6004.1000	1 l	6
6004.2500	2.5 l	4
6004.9025	25 l	

Acetone

9254 'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

► (CH₃)₂CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 000

EC INDEX NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC) (corrected for water)	min. 99.4%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Reducing KMnO ₄	passes test
Titration Acid (µeq/g)	0.3
Titration Base (µeq/g)	0.6
Water (H ₂ O)	max. 0.5%

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml)	max. 10

FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9254.1000	1 l	6
9254.2500	2.5 l	4

Acetone

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

8142

▶ (CH₃)₂CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 000

EC INDEX NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC) (corrected for water)	min. 99.7%
Residue after Evaporation	max. 2 ppm
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0006
Water (H ₂ O)	max. 0.2%

Physical Data (not specifications):

Density (g/ml) at 20°C 0.791

Ultraviolet Absorbance (1.00-cm path vs water):

at 350 nm max. 0.01

at 400 nm max. 0.01

UV Cut-off, nm max. 330

PRODUCT NO.	PACKING	CONT. BOX
8142.1000	1 l	6
8142.2500	2.5 l	4

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Acetone

'BAKER ANALYZED' / ACS

8002

▶ (CH₃)₂CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 000

EC INDEX NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Exceeds ACS Specifications

Assay (by GC)	min. 99.5%
Aldehyde (as HCHO)	max. 0.002%
Color (APHA)	max. 10
Diisopropylether((CH ₃) ₂ CHOCH(CH ₃) ₂)	max. 0.05%
Isopropyl Alcohol	max. 0.05%
Methanol (CH ₃ OH)	max. 0.05%
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Substances Reducing KMnO ₄	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0006
Water (H ₂ O)	max. 0.5%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8002.1000	1 l	6
8002.2500	2.5 l	4
8002.2500PE	2.5 l HDPE	4
8002.5000	5 l EcoTainer	4
8002.9025	25 l	
8002.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.
For safe handling of 25 l tin cans, see Self-closing tap.

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Acetone
'BAKER'

8003

▶ (CH₃)₂CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 000

EC INDEX NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-

P305+P351+P338-P405-P501a



Danger

Meets Reagent Specifications for testing Ph. Eur.

monographs

Acidity or Alkalinity	passes test
Appearance of solution	passes test
Identification	passes test
Matter Insoluble in Water	passes test
Reducing Substances	passes test
Relative Density	0.790-0.793
Residue on Evaporation	max. 50 ppm
Water (H ₂ O)	max. 3 g/l

Additional Specification(s):

Assay (by GC) min. 99.0%

Related Substances:

2-Propanol (CH ₃ CHOHCH ₃)	max. 0.05% (v/v)
Benzene	max. 2 ppm (v/v)
Methanol (CH ₃ OH)	max. 0.05% (v/v)
Other Impurities	passes test

PRODUCT NO.	PACKING	CONT. BOX

8003.1000	1 l	6
8003.2500	2.5 l	4
8003.5000	5 l EcoTainer	4
8003.9010	10 l Jerrycan	
8003.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

3403

Acetone
99% / HISTO GRADE▶ (CH₃)₂CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 000

EC INDEX NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-

P305+P351+P338-P405-P501a



Danger

PRODUCT NO.	PACKING	CONT. BOX

3403.5000	5 l Jerrycan	
3403.9010	10 l Jerrycan	
3403.9025	25 l Jerrycan	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

9255

Acetonitrile
'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis▶ CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Assay (by GC) (corrected for water)	min. 99.8%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Titration Acid (µeq/g)	max. 0.3
Titration Base (µeq/g)	max. 0.6
Water (H ₂ O) (by Coulometry)	max. 0.05%

Trace Organic Residues:

ECD-Sensitive Impurities (as Heptachlor Epoxide) Single Impurity Peak (pg/ml)	max. 10
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/ml)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

9255.1000	1 l	6

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Acetonitrile

BAKER Ultra LCMS ANALYZED Reagent / For Use in Liquid Chromatography and Mass Spectrometry

9853

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Assay	min. 99.9%
Appearance	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.8 ppm
Water (H ₂ O)	max. 100 ppm

Fluorescence Trace Impurities (as quinine base), ppb:

at 450 nm Emission	max. 0.3
at Emission Maximum for Impurities	max. 1.0

Gradient Elution Test (a.u.):

at 210 nm	max. 0.002
at 254 nm	max. 0.0005

LC-MS Suitability

Largest Response on ESI-Negative Mode (as 4-Nitrophenol)	max. 25 ppb
Largest Response on ESI-Positive Mode (as Reserpine)	max. 25 ppb

Trace Impurities (in ppb):

Aluminium (Al)	max. 25
Calcium (Ca)	max. 25
Chromium (Cr)	max. 5
Cobalt (Co)	max. 5
Copper (Cu)	max. 5
Iron (Fe)	max. 5
Lead (Pb)	max. 5
Lithium (Li)	max. 5
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 5
Nickel (Ni)	max. 5
Potassium (K)	max. 10
Sodium (Na)	max. 50
Tin (Sn)	max. 5
Zinc (Zn)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
9853.1000	1 l	6

Filtered through a 0.1 micron filter.

Acetonitrile

BAKER ANALYZED LC-MS Reagent

9821

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Assay (by GC)	min. 99.9%
Residue after Evaporation	max. 1 ppm
Water (H ₂ O)	max. 0.01 %

LC-Gradient-Diode Array Detection (a.u.), test solution is modified with 0.1%(v/v) formic acid:

at 220 nm	max. 0.002
at 254 nm	max. 0.001

LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:

Positive ESI-MS Sensitive Impurities (as Reserpine)	max. 50 ng/ml

Product Information (not specifications):

Density (g/ml) at 20°C	0.78
Refractive Index n _D ²⁰	1.344

Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

Ultraviolet Absorbance (1.00-cm path vs water):

at 200 nm	max. 0.05
at 220 nm	max. 0.01
at 254 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9821.1000GL	1 l Glass	6
9821.2500GL	2.5 l Glass	4

Element concentrations are at time of lot release.

Acetonitrile

9017 'BAKER HPLC ANALYZED' / Ultra Gradient HPLC Grade

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Meets Chromatography Reagent Specifications for testing Ph. Eur. monographs

Assay (by GC)	min. 99.9%
Appearance	passes test
Distilling Range 80-82°C	min. 95%
Identity (by IR)	passes test
Transmittance 240 nm - 420 nm	min. 98%
Water (H ₂ O)	max. 0.01%

Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm	max. 0.3
Measured at Emission Maximum for Solvent Impurities	max. 1.0

Gradient Elution Test (PAH Suitability test)**Ultraviolet Absorbance (a.u.):**

at 210 nm	max. 0.002
at 254 nm	max. 0.0005

Fluorescence (in ppb, measured as Benzo(a)

Pyrene at EX/Em=280nm/Total Emission max. 0.5

Limits of Impurities:

Residue after Evaporation	max. 1 ppm
Titration Acid (meq/g)	max. 0.0008
Titration Base (meq/g)	max. 0.0006

Physical Data (not specifications):

Density (g/ml) at 20°C	0.786
Refractive Index n _D ²⁰	1.344

Ultraviolet Absorbance (1.00-cm path vs water):

at 200 nm	max. 0.05
at 220 nm	max. 0.01
at 254-400 nm	max. 0.01
UV Cut-off, nm	max. 190

PRODUCT NO.	PACKING	CONT. BOX

9017.1000	1 l	6
9017.2500	2.5 l	4
9017.4000GL	4 l Glass	4
9017.5000	5 l EcoTainer	4

[EcoTainer, the metal solvent can for more safety in the lab.](#)

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Acetonitrile

9012 'BAKER HPLC ANALYZED' / HPLC Far UV / Gradient Grade

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Assay (by GC)	min. 99.8%
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0008
Titration Base (meq/g)	max. 0.0006
Water (H ₂ O)	max. 0.02%

Fluorescence Trace Impurities (as quinine base), ppb:

at Emission Maximum for Impurities	max. 1.0
Measured at 450 nm	max. 0.3

Gradient Elution Test (PAH Suitability test)**Ultraviolet Absorbance (a.u.):**

at 254 nm	max. 0.001

Physical Data (not specifications):

Refractive Index n _D ²⁰	1.344

Ultraviolet Absorbance (1.00-cm path vs water):

at 200 nm	max. 0.10
at 210 nm	max. 0.05
at 220 nm	max. 0.03
at 254 nm	max. 0.01
at 280 nm	max. 0.01
at 350 nm	max. 0.01
at 400 nm	max. 0.01
UV Cut-off, nm	max. 190

PRODUCT NO.	PACKING	CONT. BOX

9012.1000GL	1 l Glass	6
9012.2500GL	2.5 l Glass	4
9012.5000EC	5 l EcoTainer	4
9012.9010RC	10 l Returnable Container	
9012.9030RC	30 l Returnable Container	

[EcoTainer, the metal solvent can for more safety in the lab.](#)

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Acetonitrile

'BAKER HPLC ANALYZED' / HPLC Isocratic Grade

8257

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Assay (by GC)

min. 99.8%

Residue after Evaporation

max. 0.0005%

Water (H₂O)

max. 0.1%

Physical Data (not specifications):

Refractive Index n_D²⁰

1.344

Ultraviolet Absorbance (1.00-cm path vs water):

at 200 nm

max. 0.5

at 210 nm

max. 0.3

at 220 nm

max. 0.2

at 254 nm

max. 0.05

at 280 nm

max. 0.01

UV Cut-off, nm

value on certificate

PRODUCT
NO.

PACKING

CONT.
BOX

8257.1000

1 l

6

8257.2500

2.5 l

4

8257.5000

5 l EcoTainer

4

8257.9010RC

10 l Returnable Container

8257.9030RC

30 l Returnable Container

8257.9200RC

200 l Returnable Container

EcoTainer, the metal solvent can for more safety in the lab.

Acetonitrile

Ultra Low Water / BakerDRY / Low Water Solvent / ACS

9035

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Meets ACS Specifications

Assay (by GC) (corrected for water)

min. 99.5%

Appearance

passes test

Color (APHA)

max. 10

Residue after Evaporation

max. 1 ppm

Titration Acid (μeq/g)

max. 0.8

Titration Base (μeq/g)

max. 0.6

Water (by KF, coulometric)

max. 10 ppm

Product Information (not specifications):

Boiling Point (typical)

81.6°C

Density (g/ml) at 25°C (typical)

0.778

PRODUCT
NO.

PACKING

CONT.
BOX

9035.1000

1 l

Acetonitrile

'BAKER BIO-ANALYZED' / For DNA/RNA synthesis

8134

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Assay (by GC)

min. 99.9%

Residue after Evaporation

max. 1 ppm

Titration Acid (μeq/g)

max. 0.5

Titration Base (μeq/g)

max. 0.6

Water (H₂O)

max. 10 ppm

Fluorescence Trace Impurities (as quinine base), ppb:

at Emission Maximum for Impurities

max. 1.0

Measured at 450 nm

max. 0.3

Ultraviolet Absorbance (1.00-cm path vs water):

at 200 nm

max. 0.05

at 220 nm

max. 0.01

at 254-400 nm

max. 0.01

UV Cut-off, nm

max. 190

PRODUCT
NO.

PACKING

CONT.
BOX

8134

20 l Cycletainer

8134

50 l Cycletainer

8134

200 l Returnable Container

Acetonitrile

8144

'BAKER BIO-ANALYZED' / For DNA/RNA synthesis

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Assay (corrected for H₂O) min. 99.9%

Residue after Evaporation max. 1 ppm

Titrable Acid (µeq/g) max. 0.5

Titrable Base (µeq/g) max. 0.6

Water (H₂O) max. 30 ppm**Fluorescence Trace Impurities (as quinine base), ppb:**

Measured at 450 nm max. 0.3

Measured at Emission Maximum for Solvent

Impurities max. 1.0

Ultraviolet Absorbance (1.00-cm path vs water):

at 200 nm max. 0.05

at 220 nm max. 0.01

at 254-400 nm max. 0.01

UV Cut-off, nm max. 190

PRODUCT NO.	PACKING	CONT. BOX
8144.4000	4 l Glass	

Acetonitrile

8004

'BAKER ANALYZED' / ACS

► CH₃CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 950

EC INDEX NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H319-H332

P: P210-P241-P261-

P303+P361+P353-

P305+P351+P338-P501a



Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water) min. 99.5%

Appearance passes test

Color (APHA) max. 10

Residue after Evaporation max. 0.005%

Titrable Acid (µeq/g) max. 8

Titrable Base (µeq/g) max. 0.6

Water (H₂O) max. 0.3%**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg) max. 0.1

Manganese (Mn) max. 0.02

Nickel (Ni) max. 0.02

Tin (Sn) max. 0.1

Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8004.1000	1 l	6
8004.2500	2.5 l	4
8004.9200	200 l	

Acid Blue 90

See COOMASSIE Brilliant Blue R-250

Acid Fuchsin

1420

'BAKER'

► C₂₀H₁₇N₃Na₂O₉S₃

M = 585.54 g/mol

CAS NO. 3244-88-0

EINECS 221-816-5

NC CODE 3204 12 000

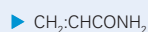
Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
1420.0025	25 g Glass	

Acrylamide

'BAKER ULTRAPURE BIOREAGENT' / Purified for Electrophoresis

4081



M = 71.08 g/mol

CAS NO. 79-06-1

EINECS 201-173-7

NC CODE 2924 19 000

EC INDEX NO. 616 003 00 0

UN/ID NO. 2074

ADR/RID 6.1 T2

IMDG 6.1/III

H: H301-H312-H315-H317-H319-

H332-H340-H350-H361f-H372

P: P260-P261-P301+P310-

P305+P351+P338-P405-P501a



Danger

Assay	min. 99.9%
Absorbance of a 1% Solution at 290 nm (1-cm path vs water)(au)	max. 0.1
Acrylic acid ($\text{CH}_2\text{:CHCOOH}$)	max. 0.001%
Conductivity of 35% Solution	max. 2.5 μmho
DNase Activity	none detected
Heavy Metals (as Pb)	max. 1 ppm
Insoluble in Methanol	max. 0.005%
Insoluble in Water	max. 0.005%
Iron (Fe)	max. 1 ppm
pH of 10% Solution in 0.1 M NaCl	6.0-7.0
Protease Activity	none detected
RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4081.0100	100 g	
4081.0500	500 g	
4081.2500	2.5 kg	

Store between 18 and 26°C.

Activated Carbon

Acid-Washed, Steam-Activated / Powder / (DARCO G-60)

E343



M = 12.01 g/mol

CAS NO. 7440-44-0

EINECS 231-153-3

NC CODE 3802 10 000

IMDG 4.2/III

Iron (Fe)	max. 200 ppm
Methylene Blue Adsorption, g/100g	min. 15
Moisture	max. 12%
Water Solubles	max. 0.5%
Mesh:	
Thru U.S. No. 100 Sieve	% 85 - % 95
Thru U.S. No. 325 Sieve	% 45 - % 55
Physical Data (not specifications):	
pH of Water Extract	5.5-8.0

PRODUCT NO.	PACKING	CONT. BOX
E343.0500	500 g	

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Activated Carbon

'BAKER ANALYZED'

1991



M = 12.01 g/mol

CAS NO. 7440-44-0

EINECS 231-153-3

NC CODE 3802 10 000

Iron (Fe)	max. 0.03%
Lead (Pb)	max. 0.001%
Loss on Drying	max. 10%
Residue after Ignition (600°C)	max. 1%
Substances soluble in Ethanol	max. 0.2%
Substances soluble in Nitric Acid	max. 1%
Substances soluble in Water	max. 0.5%
Sulfate (SO_4)	max. 0.01%
Zinc (Zn)	max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
1991.0500	500 g	

Activator DCI

'BAKER ANALYZED' / For DNA/RNA synthesis

9479

1 l = 0.80 kg

FLASHPOINT 5 °C

NC CODE 2926 90 950

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H311-H332-H319

P: P210-P241-P303+P361+P353-
P305+P351+P338-P361-P405

Danger

Appearance: clear, colorless solution free from visible particulates	passes test
Molarity (Dicyano-imidazole)	0.24-0.26
Water (H_2O)	max. 30 ppm

PRODUCT NO.	PACKING	CONT. BOX
9479.2500	2.5 l Glass	

Suitable for Oligonucleotide synthesis.

Activator ETT

9478 'BAKER ANALYZED' / For DNA/RNA synthesis

FLASHPOINT	5 °C	Appearance:	clear, colorless solution free from visible particulates	passes test
CAS NO.	75-05-8	Molarity (5-Ethylthio-1H-Tetrazole)		0.28-0.32
NC CODE	2926 90 950	Water (H ₂ O)		max. 50 ppm
UN/ID NO.	1648			
ADR/RID	3 F1			
IMDG	3/II			
H:	H225-H312-H332-H319			
P:	P210-P241-P261-P280-P303+P361+P353-P305+P351+P338			



Danger

PRODUCT NO.	PACKING	CONT. BOX
9478.0200	200 ml Glass	
9478.0450GL	450 ml Glass	
9478.2000GL	2 l Glass	
9478.4000GL	4 l Glass	

Suitable for Oligonucleotide synthesis.

Agarose, standard

A426 Low Electroendosmosis (EEO) / 'BAKER ULTRAPURE BIOREAGENT' / For Electrophoresis

CAS NO.	9012-36-6	DNase Activity	none detected
EINECS	232-731-8	Electroendosmosis (EEO)(-Mr)	max. 0.13
NC CODE	3913 90 000	Gel strength (g/cm ²)(MCl, 1.0%)	min. 1200
		Gelling Temperature of 1.5% (w/w) solution	34.5-37.5°C
		Loss on Drying at 70°C (in Vacuo)	max. 7%
		Melting Temperature of 1.5% (w/w) solution	86.5-89.5°C
		Protease Activity	none detected
		RNase Activity	none detected
		Sulfate (SO ₄)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
A426.0100	100 g	

Albumin, Egg

1002 powder / Purified

NC CODE	3502 90 900	Identification	passes test

PRODUCT NO.	PACKING	CONT. BOX
1002.0500	500 g	

Albumin (Bovine) Fraction V

0604 'BAKER ANALYZED'

CAS NO.	9048-46-8	Total Protein (based on N)	min. 95%
EINECS	232-936-2	Water (H ₂ O)	max. 5%
NC CODE	3502 90 700		
EC INDEX NO.	90 604 29 8		

PRODUCT NO.	PACKING	CONT. BOX
0604.0010	10 g	

Alcohol Absolute

See Ethanol

Alizarin Red S

1471 'BAKER ANALYZED'

► C ₁₄ H ₇ NaO ₇ S	Visual Transition Interval:	
M = 342.26 g/mol	pH 4.0	yellow
CAS NO. 130-22-3	pH 6.0	red
EINECS 204-981-8		
NC CODE 2914 70 000		

PRODUCT NO.	PACKING	CONT. BOX
1471.0025	25 g Glass	
C.I. 58005.		

Alizarin Sulfonic Acid Sodium Salt

See Alizarin Red S

Alum Iron

See Ammonium Iron(III) Sulfate Dodecahydrate

Aluminium

Shot / Purified

1003

▶ AI

Assay

min. 95%

M = 26.98 g/mol
CAS NO. 7429-90-5
EINECS 231-072-3
NC CODE 7601 10 000
H: H228-H261
P: P210-P231+P232-P233-P240-P241-P280



Danger

PRODUCT NO.	PACKING	CONT. BOX
1003.0500	500 g	

Aluminium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5701

▶ AI

Aluminium (Al)

998-1002 µg/ml

M = 27.00 g/mol
NC CODE 3822 00 000
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
5701.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Aluminium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6917

▶ AI

Aluminium (Al)

998-1002 µg/ml

M = 26.98 g/mol
NC CODE 3822 00 000
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
6917.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Aluminium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6801

▶ AI

Aluminium (Al)

998-1002 µg/ml

M = 27.00 g/mol
NC CODE 3822 00 000
H: H315
P: P264-P280-P302+P352-P321-P332+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
6801.0100	100 ml	

Aluminium Nitrate in Nitric Acid 0.5 mol/l.



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X
Y
Z

Aluminium 10000 µg/ml

5716 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Al

M = 27.00 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Aluminium (Al)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5716.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Aluminium Oxide

0007 'BAKER ANALYZED'

▶ Al₂O₃

M = 101.96 g/mol

CAS NO. 1344-28-1

EINECS 215-691-6

NC CODE 2818 20 000

Assay

min. 98.5%

Chloride (Cl)

max. 0.005%

Heavy Metals (as Pb)

max. 0.001%

Iron (Fe)

max. 0.02%

Loss on Ignition

max. 1.0%

Sulfate (SO₄)

max. 0.005%

PRODUCT
NO.

PACKING

CONT.
BOX

0007.0500

500 g

Aluminium Oxide

0008 powder / 'BAKER ANALYZED' / For Chromatography

▶ Al₂O₃

M = 101.96 g/mol

CAS NO. 1344-28-1

EINECS 215-691-6

NC CODE 2818 20 000

Adsorption (mg o-nitroaniline/g)

min. 1.0

pH of 5% Slurry at 20°C

7.0-7.8

Physical Data (not specifications):

Average Particle Diameter, µm (APD)

50-200

Bulk Density (g/cc)

0.9

Mean Pore Diameter, A

60

PRODUCT
NO.

PACKING

CONT.
BOX

0008.0500

500 g

Neutral, Brockmann Activity Grade I.

Aluminium Oxide

0537 powder / 'BAKER ANALYZED' / For Chromatography

▶ Al₂O₃

M = 101.96 g/mol

CAS NO. 1344-28-1

EINECS 215-691-6

NC CODE 2818 20 000

Adsorption (mg o-nitroaniline/g)

min. 0.05

Loss on Drying

max. 5%

pH of 5% Slurry at 20°C

7.0-7.8

Physical Data (not specifications):

Average Particle Diameter, µm (APD)

50-200

Bulk Density (g/cc)

0.9

Mean Pore Diameter, A

60

PRODUCT
NO.

PACKING

CONT.
BOX

0537.0500

500 g

Aluminium Oxide

1848 powder / 'BAKER ANALYZED' / For Chromatography

▶ Al₂O₃

M = 101.96 g/mol

CAS NO. 1344-28-1

EINECS 215-691-6

NC CODE 2818 20 000

Adsorption (mg o-nitroaniline/g)

min 1.0

pH of 3% Slurry at 20°C

8.5-10.0

Physical Data (not specifications):

Average Particle Diameter, µm (APD)

50-200

Bulk Density (g/cc)

0.9

Mean Pore Diameter, A

60

PRODUCT
NO.

PACKING

CONT.
BOX

1848.0500

500 g

Basic, Brockmann Activity Grade I.

Aluminium Sulfate Octadecahydrate

0564-01 crystal / 'BAKER ANALYZED' / ACS

▶ Al₂(SO₄)₃·18H₂O

M = 666.42 g/mol

CAS NO. 7784-31-8

EINECS 233-135-0

NC CODE 2833 22 000

H: H318

P: P280-P305+P351+P338-P310



Danger

Meets ACS Specifications

Assay (by EDTA titrn.)

98.0-102.0%

Calcium (Ca)

max. 0.01%

Chloride (Cl)

max. 0.005%

Heavy Metals (as Pb)

max. 0.001%

Insoluble Matter

max. 0.005%

Iron (Fe)

max. 0.002%

Magnesium (Mg)

max. 0.002%

Potassium (K)

max. 0.005%

Sodium (Na)

max. 0.02%

PRODUCT
NO.

PACKING

CONT.
BOX

0564-01

500 g HDPE

4

Amidosulfonic Acid

See Sulfamic Acid

Aminoacetic Acid

See Glycine

p-Aminobenzenesulfonamide

See Sulfanilamide

p-Aminobenzenesulfonic Acid

See Sulfanilic Acid Anhydrous

2-Aminoethanol

See Ethanolamine

2-Amino-2-methyl-1-propanol

'BAKER ANALYZED'

3321

▶ $\text{CH}_3\text{C}(\text{NH}_2)(\text{CH}_3)\text{CH}_2\text{OH}$ **M** = 89.14 g/mol**1 l** = 0.93 kg**FLASHPOINT** 67 °C**CAS NO.** 124-68-5**EINECS** 204-709-8**NC CODE** 2922 19 800**EC INDEX NO.** 603 070 00 6**H:** H315-H319-H412**P:** P273-P280-P305+P351+P338-

P332+P313-P362-P501a



Warning

Assay	93-97%
Appearance	passes test
Boiling Point	165°C
Freezing Point	24-28°C
pH of 0.1 M Solution at 25°C	11-12
Water (H ₂ O)	max. 1.0%

PRODUCT NO.	PACKING	CONT. BOX
3321.1000	1 kg	

Ammonium Acetate

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

0390

▶ $\text{CH}_3\text{COONH}_4$ **M** = 77.08 g/mol**CAS NO.** 631-61-8**EINECS** 211-162-9**NC CODE** 2915 29 000

Insoluble Matter	max. 0.005%
Nitrate (NO ₃)	max. 0.001%
pH of 5% Solution at 25°C	6.7-7.3
Residue after Ignition	max. 0.01%
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

Ultraviolet Absorbance, (1M Aqueous Solution; 1.00-cm path vs water):

at 254 nm	max. 0.02
at 280 nm	max. 0.01
at 350 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0390.1000	1 kg	

Ammonium Acetate

'BAKER ANALYZED' / ACS

0011

▶ $\text{CH}_3\text{COONH}_4$ **M** = 77.08 g/mol**CAS NO.** 631-61-8**EINECS** 211-162-9**NC CODE** 2915 29 000**Meets ACS Specifications**

Assay	min. 97%
Insoluble Matter	max. 0.005%
Nitrate (NO ₃)	max. 0.001%
pH of 5% Solution at 25°C	6.7-7.3
Residue after Ignition	max. 0.01%
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0011.1000	1 kg	6
0011.9025	25 kg	

Ammonium Bicarbonate

See Ammonium Hydrogen Carbonate

Ammonium Bifluoride

See Ammonium Hydrogen Fluoride

Ammonium Biphosphate

See Ammonium Dihydrogen Phosphate

Ammonium Carbonate

0391 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

CAS NO.	10361-29-2	Assay (NH ₃)	min. 30.0%
EINECS	233-786-0	Insoluble Matter	max. 0.005%
NC CODE	2836 10 000	Non-volatile Matter	max. 0.01%
H:	H302-H319-H335	Sulfur Compounds (as SO ₄)	max. 0.002%
P:	P261-P280-P301+P312- P305+P351+P338-P405-P501a	Trace Impurities (in ppm):	
	Warning	Chloride (Cl)	max. 5
		Heavy Metals (as Pb)	max. 5
		Iron (Fe)	max. 3
		Ultraviolet Absorbance:	
		at 254 nm	max. 0.02
		at 280 nm	max. 0.01
		at 350 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0391.1000	1 kg	

IMPORTANT: Store material below 30°C (86°F) to avoid possible decomposition.

Ammonium Carbonate

0015 Powder / 'BAKER ANALYZED' / ACS

CAS NO.	10361-29-2	Meets ACS Specifications	
EINECS	233-786-0	Assay (NH ₃)	min. 30.0%
NC CODE	2836 10 000	Additional Specification(s):	
H:	H302-H319-H335	Insoluble Matter	max. 0.005%
P:	P261-P280-P301+P312- P305+P351+P338-P405-P501a	Non-volatile Matter	max. 0.01%
	Warning	Sulfur Compounds (as SO ₄)	max. 0.002%
		Trace Impurities (in ppm):	
		Chloride (Cl)	max. 5
		Heavy Metals (as Pb)	max. 5
		Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0015.1000	1 kg	

Ammonium Cerium(IV) Nitrate

1050 crystal / 'BAKER ANALYZED' / ACS

▶ (NH ₄) ₂ Ce(NO ₃) ₆		Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs	
M = 548.23 g/mol		Assay	min. 98.5%
CAS NO.	16774-21-3	Chloride (Cl)	max. 0.01%
EINECS	240-827-6	Insoluble in Dilute H ₂ SO ₄	max. 0.05%
NC CODE	2846 10 000	Iron (Fe)	max. 0.005%
UN/ID NO.	1477	Phosphate (PO ₄)	max. 0.02%
ADR/RID	5.1 O2		
IMDG	5.1/II		
H:	H272-H318		
P:	P210-P220-P221-P305+P351+P338-P310-P501a		



Danger

PRODUCT NO.	PACKING	CONT. BOX
1050.0500GL	500 g Glass	

Ammonium Chloride

0018 'BAKER ANALYZED' / ACS

▶ NH ₄ Cl		Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs	
M = 53.49 g/mol		Assay (argentometric titrn.)	min. 99.5%
CAS NO.	12125-02-9	Calcium (Ca)	max. 0.001%
EINECS	235-186-4	Insoluble Matter	max. 0.005%
NC CODE	2827 10 000	pH of 5% Solution at 25°C	4.5-5.5
EC INDEX NO.	17 014 00 8	Residue after Ignition	max. 0.01%
H:	H302-H319	Sulfate (SO ₄)	max. 0.002%
P:	P264-P280-P301+P312-P305+P351+P338-P337+P313-P501a	Trace Impurities (in ppm):	
	Warning	Heavy Metals (as Pb)	max. 5
		Iron (Fe)	max. 2
		Magnesium (Mg)	max. 5
		Phosphate (PO ₄)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0018.0500	500 g	6
0018.1000	1 kg	6

Ammonium Chloride

'BAKER'

0019

▶ NH₄Cl

M = 53.49 g/mol

CAS NO. 12125-02-9

EINECS 235-186-4

NC CODE 2827 10 000

EC INDEX NO. 17 014 00 8

H: H302-H319

P: P264-P280-P301+P312-

P305+P351+P338-P337+P313-

P501a



Warning

Assay (dry basis)	99.5-100.5%
Acid or alkaline reacting substances	passes test
Appearance of solution	passes test
Bromide/Iodide	passes test
Calcium (Ca)	max. 200 ppm
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iron (Fe)	max. 20 ppm
Limit of thiocyanate (SCN)	passes test
Loss on Drying	max. 0.5%
pH of 5% Solution at 25°C	4.6-6.0
Residue on Ignition	max. 0.1%
Sulfate (SO ₄)	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
0019.1000	1 kg	6
0019.5000	5 kg	4
0019.9050	50 kg	

Ammonium Citrate, Dibasic

See Ammonium Hydrogen Citrate

Ammonium Dichromate

'BAKER ANALYZED' / ACS

0021

▶ (NH₄)₂Cr₂O₇

M = 252.06 g/mol

CAS NO. 7789-09-5

EINECS 232-143-1

NC CODE 2841 50 000

EC INDEX NO. 24 003 00 1

UN/ID NO. 1439

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272-H301-H312-H314-H317-

H330-H334-H340-H350-H360FD-

H372-H400-H410

P: P221-P301+P310-

P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Exceeds ACS Specifications

Assay (dried)	min. 99.5%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.002%
Loss on Drying at 105°C	max. 3.0%
pH of 5% Solution at 25°C	3.5-5.0
Sodium (Na)	max. 0.005%
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0021.0100	100 g	

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 PERFORMANCE MATERIALS

Ammonium Dihydrogen Phosphate

4931

ULTREX Ultrapure Reagent

▶ $\text{NH}_4\text{H}_2\text{PO}_4$

M = 115.03 g/mol

CAS NO. 7722-76-1

EINECS 231-764-5

NC CODE 3105 40 000

Actual Lot Analysis Lot. No. J31H10

Assay ($\text{NH}_4\text{H}_2\text{PO}_4$)	99.6%
Particulate Matter	0.004%
pH of 5% Solution at 25°C	4.4
Metallic Impurities in parts per million (µg/g):	
Aluminium (Al)	< 0.2
Barium (Ba)	< 0.2
Bismuth (Bi)	< 2.2
Cadmium (Cd)	< 0.1
Calcium (Ca)	0.3
Chromium (Cr)	0.2
Cobalt (Co)	< 0.2
Copper (Cu)	< 0.1
Iron (Fe)	0.9
Lead (Pb)	0.3
Magnesium (Mg)	< 0.1
Manganese (Mn)	< 0.1
Mercury (Hg)	< 0.3
Molybdenum (Mo)	0.2
Nickel (Ni)	< 0.2
Niobium (Nb)	< 0.1
Potassium (K)	0.6
Silver (Ag)	< 0.3
Sodium (Na)	1.2
Strontium (Sr)	< 0.2
Tin (Sn)	0.5

Titanium (Ti)	< 0.2
Vanadium (V)	< 0.1
Zinc (Zn)	0.4
Zirconium (Zr)	< 0.2

Non-Metallic Impurities in parts per million (µg/g):

Arsenic (As)	< 0.1
Fluoride (F)	0.003
Halide (as Cl)	< 5
Nitrate (NO_3)	< 2
Silicon (Si)	1.0
Sulfur Compounds (as SO_4)	< 0.005

Ultraviolet Absorbance (1.00-cm path vs water):

at 215 nm	0.06
at 220 nm	0.05
at 254 nm	0.03
at 260 nm	0.03
at 280 nm	0.03

PRODUCT NO.	PACKING	CONT. BOX
4931.0050	50 g	
4931.0500	500 g	

For Laboratory, Research or Manufacturing Use.

Ammonium Dihydrogen Phosphate

0392

crystal / 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

▶ $\text{NH}_4\text{H}_2\text{PO}_4$

M = 115.03 g/mol

CAS NO. 7722-76-1

EINECS 231-764-5

NC CODE 3105 40 000

Assay	min. 98.0%
Ammonium Hydroxide Precipitate	max. 0.005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Nitrate (NO_3)	max. 0.001%
pH of 5% Solution at 25°C	3.8-4.4
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Sulfur Compounds (as SO_4)	max. 0.005%
Trace Impurities (in ppm):	
Arsenic (As)	max. 0.5
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Ultraviolet Absorbance (1.00-cm path vs water):	
at 254 nm	max. 0.03
at 280 nm	max. 0.02
at 350 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0392.1000	1 kg	

Ammonium Dihydrogen Phosphate

0029

'BAKER ANALYZED' / ACS

▶ $\text{NH}_4\text{H}_2\text{PO}_4$

M = 115.03 g/mol

CAS NO. 7722-76-1

EINECS 231-764-5

NC CODE 3105 40 000

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay	min. 98.0%
Calcium (Ca)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Magnesium (Mg)	max. 0.0005%
Nitrate (NO_3)	max. 0.001%
pH of 5% Solution at 25°C	3.8-4.4
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Sulfate (SO_4)	max. 0.01%
Trace Impurities (in ppm):	
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0029.1000	1 kg	6

Ammonium Fluoride

'BAKER ANALYZED' / ACS

0023

▶ NH₄F

M = 37.04 g/mol

CAS NO. 12125-01-8

EINECS 235-185-9

NC CODE 2826 11 000

EC INDEX NO. 9 006 00 8

UN/ID NO. 2505

ADR/RID 6.1 T5

IMDG 6.1/III

H: H301-H311-H331

P: P261-P280-P301+P310-P361-P405-P501a



Danger

Meets ACS Specifications

Assay	min. 98.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Residue after Ignition	max. 0.01%
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0023.0250	250 g	6

Ammonium Hydrogen Carbonate

'BAKER ANALYZED'

0013

▶ NH₄HCO₃

M = 79.06 g/mol

CAS NO. 1066-33-7

EINECS 213-911-5

NC CODE 2836 10 000

H: H302-H319-H335

P: P261-P280-P301+P312-P305+P351+P338-P405-P501a



Warning

Assay	99.0-101.0%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	7.0-8.0
Residue after Ignition	max. 0.005%
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0013.1000	1 kg	
0013.9025	25 kg	

Ammonium Hydrogen Citrate

'BAKER ANALYZED' / ACS

0020

▶ (NH₄)₂HC₆H₅O₇

M = 226.19 g/mol

CAS NO. 3012-65-5

EINECS 221-146-3

NC CODE 2918 15 000

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

Meets ACS Specifications

Assay (by formal method)	98.0-103.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.0005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Oxalate (C ₂ O ₄)	passes test
Phosphate (PO ₄)	max. 0.0005%
Residue after Ignition	max. 0.01%
Sulfur Compounds (as SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0020.1000	1 kg	
0020.9025	25 kg	

Ammonium Hydrogen Fluoride

'BAKER ANALYZED'

0014

▶ NH₄F·HF

M = 57.04 g/mol

CAS NO. 1341-49-7

EINECS 215-676-4

NC CODE 2826 11 000

EC INDEX NO. 9 009 00 4

UN/ID NO. 1727

ADR/RID 8 C2

IMDG 8/II

H: H301-H314

P: P301+P310-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Assay	min. 96.0%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.02%
Moisture (as H ₂ O)	max. 0.4%
pH of 5% Solution at 25°C	4.0-6.5

PRODUCT NO.	PACKING	CONT. BOX
0014.5000	5 kg	4

Product may contain black specks that is indigenous to product.

Ammonium Hydrogen Phosphate

0031

'BAKER ANALYZED' / ACS

▶ (NH₄)₂HPO₄

M = 132.06 g/mol

CAS NO. 7783-28-0

EINECS 231-987-8

NC CODE 3105 30 000

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay	min. 98.0%
Calcium (Ca)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Magnesium (Mg)	max. 0.0005%
Nitrate (NO ₃)	max. 0.003%
pH of 5% Solution at 25°C	7.7-8.1
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Sulfate (SO ₄)	max. 0.01%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

0031.1000 1 kg

6125

Ammonium Hydroxide

33% / 'BAKER'

▶ NH₄OH

M = 35.05 g/mol

1 l = 0.88 kg

CAS NO. 1336-21-6

EINECS 215-647-6

NC CODE 2814 20 000

EC INDEX NO. 7 001 01 2

UN/ID NO. 2672

ADR/RID 8 C5

IMDG 8/III

H: H314-H400

P: P260-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Assay (as NH ₃) (acidimetric)	30-33%
Chloride (Cl)	max. 0.002%
Residue after Ignition	max. 0.003%
Substances Reducing KMnO ₄	max. 0.0008%
Sulfate (SO ₄)	max. 0.003%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

6125.1000 1 l 6

6125.2500 2.5 l 4

6162

Ammonium Hydroxide

30% / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis

▶ NH₄OH

M = 35.05 g/mol

1 l = 0.90 kg

CAS NO. 1336-21-6

EINECS 215-647-6

NC CODE 2814 20 000

EC INDEX NO. 7 001 01 2

UN/ID NO. 2672

ADR/RID 8 C5

IMDG 8/III

H: H314-H400

P: P260-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Assay (NH ₃)	28.0-30.0%
Appearance	passes test
Color (APHA)	max. 10
Residue after Ignition	max. 3 ppm
Specific Gravity at 60°/60°F	0.896-0.902
Substances Reducing KMnO ₄	passes test

Trace Impurities (in ppb):

Aluminium (Al)	max. 20
Arsenic and Antimony (as As)	max. 50
Barium (Ba)	max. 10
Boron (B)	max. 20
Cadmium (Cd)	max. 5
Calcium (Ca)	max. 200
Chromium (Cr)	max. 5
Cobalt (Co)	max. 1
Copper (Cu)	max. 20
Heavy Metals (as Pb)	max. 200
Iron (Fe)	max. 10
Lead (Pb)	max. 5
Lithium (Li)	max. 20

Magnesium (Mg)	max. 20
Manganese (Mn)	max. 5
Mercury (Hg)	max. 5
Nickel (Ni)	max. 5
Potassium (K)	max. 500
Silicon (Si)	max. 1000
Silver (Ag)	max. 5
Sodium (Na)	max. 300
Strontium (Sr)	max. 10
Tin (Sn)	max. 10
Zinc (Zn)	max. 5

Trace Impurities (in ppm):

Chloride (Cl)	max. 0.5
Phosphate (PO ₄)	max. 0.4
Total Sulfur (as SO ₄)	max. 1

PRODUCT NO.	PACKING	CONT. BOX

6162.0500 500 ml 12

6162.4000 4 l Glass 4

Ammonium Hydroxide

28-30% / 'BAKER ANALYZED' / ACS

6005

▶ NH₄OH

M = 35.05 g/mol

1 l = 0.90 kg

CAS NO. 1336-21-6

EINECS 215-647-6

NC CODE 2814 20 000

EC INDEX NO. 7 001 01 2

UN/ID NO. 2672

ADR/RID 8 C5

IMDG 8/III

H: H314-H400

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Exceeds ACS Specifications

Assay (as NH ₃) (acidimetric)	28.0-30.0%
Appearance	passes test
Carbon Dioxide (CO ₂)	max. 0.002%
Chloride (Cl)	max. 0.5 ppm
Color (APHA)	max. 5
Residue after Ignition	max. 0.001%
Specific Gravity at 60°/60°F	0.896-0.902
Substances Reducing KMnO ₄	passes test

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.2
Arsenic and Antimony (as As)	max. 3
Barium (Ba)	max. 0.3
Boron (B)	max. 0.05
Chromium (Cr)	max. 0.1
Copper (Cu)	max. 0.1
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.2
Magnesium (Mg)	max. 0.2
Manganese (Mn)	max. 0.1
Nickel (Ni)	max. 0.1
Nitrate (NO ₃)	max. 2
Phosphate (PO ₄)	max. 0.4
Sulfate (SO ₄)	max. 2
Tin (Sn)	max. 0.1
Titanium (Ti)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6005.1000	1 l	6
6005.2500	2.5 l	4

Ammonium Hydroxide

25% / 'BAKER ANALYZED'

6051

▶ NH₄OH

M = 35.05 g/mol

1 l = 0.91 kg

CAS NO. 1336-21-6

EINECS 215-647-6

NC CODE 2814 20 000

EC INDEX NO. 7 001 01 2

UN/ID NO. 2672

ADR/RID 8 C5

IMDG 8/III

H: H314-H335+H336-H400

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay (NH ₃)	24.0-26.0%
Carbon Dioxide (CO ₂)	max. 0.003%
Chloride (Cl)	max. 0.5 ppm
Phosphate (PO ₄)	max. 1 ppm
Residue after Ignition	max. 0.003%
Substances Reducing KMnO ₄	passes test
Total Sulfur (as SO ₄)	max. 5 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.1
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6051.1000	1 l	6
6051.2500	2.5 l	4
6051.9025	25 l	

Ammonium Hydroxide

4807

20% / ULTREX II Ultrapure Reagent

▶ NH₄OH

M = 35.05 g/mol

CAS NO. 1336-21-6

EINECS 215-647-6

NC CODE 2814 20 000

EC INDEX NO. 7 001 01 2

UN/ID NO. 2672

ADR/RID 8 C5

IMDG 8/III

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay (NH₃)

20-22%

Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 20
Antimony (Sb)	max. 10
Arsenic (As)	max. 10
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 10
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 10
Erbium (Er)	max. 10
Europium (Eu)	max. 10
Gadolinium (Gd)	max. 10
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Gold (Au)	max. 10
Hafnium (Hf)	act. value reported
Holmium (Ho)	max. 10
Indium (In)	max. 10
Iron (Fe)	max. 20
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 20
Manganese (Mn)	max. 10
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 10

Nickel (Ni)	max. 10
Niobium (Nb)	max. 10
Palladium (Pd)	act. value reported
Platinum (Pt)	act. value reported
Potassium (K)	max. 20
Praseodymium (Pr)	max. 10
Rhenium (Re)	act. value reported
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Ruthenium (Ru)	act. value reported
Samarium (Sm)	max. 10
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 20
Strontium (Sr)	max. 10
Tellurium (Te)	max. 10
Terbium (Tb)	max. 10
Thallium (Tl)	max. 10
Thorium (Th)	max. 10
Thulium (Tm)	max. 10
Tin (Sn)	max. 10
Titanium (Ti)	max. 10
Tungsten (W)	max. 10
Uranium (U)	max. 10
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 10
Yttrium (Y)	act. value reported
Zinc (Zn)	max. 10
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
4807.0490	490 ml PE	

Ammonium Iron(III) Citrate

1110

green / 'BAKER'

CAS NO. 1185-57-5

EINECS 214-686-6

NC CODE 2918 15 000

Assay (as Fe)

14.5-16.0%

PRODUCT NO.	PACKING	CONT. BOX
1110.1000	1 kg	

Ammonium Iron(II) Sulfate Hexahydrate

0124

'BAKER ANALYZED' / ACS

▶ (NH₄)₂Fe(SO₄)₂·6H₂O

M = 392.14 g/mol

CAS NO. 7783-85-9

EINECS 233-151-8

NC CODE 2842 90 900

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

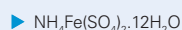
Assay (by KMnO ₄ titrn.)	98.5-101.5%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.003%
Ferric Iron (Fe ³⁺)	max. 0.01%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.002%
Manganese (Mn)	max. 0.01%
pH of 5% Solution at 25°C	3.0-5.0
Phosphate (PO ₄)	max. 0.003%
Potassium (K)	max. 0.002%
Sodium (Na)	max. 0.02%
Zinc (Zn)	max. 0.003%

PRODUCT NO.	PACKING	CONT. BOX
0124.0250	250 g	
0124.1000	1 kg	6

Ammonium Iron(III) Sulfate Dodecahydrate

'BAKER ANALYZED' / ACS

0118



M = 482.19 g/mol

CAS NO. 7783-83-7

EINECS 233-382-4

NC CODE 2833 30 000

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay (by Iodometry)	98.5-102.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.003%
Ferrous Iron (Fe^{++})	passes test
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.005%
Nitrate (NO_3)	max. 0.01%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.02%
Zinc (Zn)	max. 0.003%

PRODUCT NO.	PACKING	CONT. BOX
0118.0100	100 g	
0118.1000	1 kg	

Ammonium Metavanadate

Powder / 'BAKER ANALYZED' / ACS

1010



M = 116.98 g/mol

CAS NO. 7803-55-6

EINECS 232-261-3

NC CODE 2841 90 300

UN/ID NO. 2859

ADR/RID 6.1 T5

IMDG 6.1/II

H: H301-H315-H319-H335

P: P261-P280-P301+P310-

P305+P351+P338-P405-P501a



Danger

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay	min. 99.0%
Appearance	passes test
Carbonate (CO_3)	passes test
Chloride (Cl)	max. 0.2%
Solubility in Ammonium Hydroxide	passes test
Sulfate (SO_4)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1010.0125	125 g	

Product may contain off-color particles of V_2O_5 .

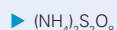
Ammonium Monovanadate

See Ammonium Metavanadate

Ammonium Peroxodisulfate

'BAKER ANALYZED' / ACS

0028



M = 228.20 g/mol

CAS NO. 7727-54-0

EINECS 231-786-5

NC CODE 2833 40 000

EC INDEX NO. 16 060 00 6

UN/ID NO. 1444

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272-H302-H315-H317-H319-H334-H335

P: P210-P221-P285-

P305+P351+P338-P405-P501a



Danger

Meets ACS Specifications

Assay	min. 98.0%
Chloride and Chlorate (as Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.05%
Titration Acid (meq/g)	max. 0.04
Trace Impurities (in ppm):	
Manganese (Mn)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
0028.1000	1 kg	6

WWW.AVANTORMATERIALS.COM

Ammonium Peroxodisulfate

1899

'BAKER'

▶ (NH₄)₂S₂O₈

M = 228.20 g/mol

CAS NO. 7727-54-0

EINECS 231-786-5

NC CODE 2833 40 000

EC INDEX NO. 16 060 00 6

UN/ID NO. 1444

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272-H302-H315-H317-H319-
H334-H335P: P210-P221-P285-
P305+P351+P338-P405-P501a

Danger

Assay	min. 98.0%
Chloride and Chlorate (as Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.003%
Iron (Fe)	max. 0.003%

Trace Impurities (in ppm):

Manganese (Mn)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
1899.9050	50 kg	

▶ Ammonium Persulfate

See Ammonium Peroxodisulfate

▶ Ammonium Phosphate, Dibasic

See Ammonium Hydrogen Phosphate

▶ Ammonium Phosphate, Monobasic

See Ammonium Dihydrogen Phosphate

▶ Ammonium Purpurate

See Murexide

▶ Ammonium Reineckate

See Reinecke Salt

▶ Ammonium Rhodanide

See Ammonium Thiocyanate

Ammonium Sulfate

4027

'BAKER ULTRAPURE BIOREAGENT' / For Protein Precipitation and Liquid Chromatography

▶ (NH₄)₂SO₄

M = 132.14 g/mol

CAS NO. 7783-20-2

EINECS 231-984-1

NC CODE 3102 21 000

Assay	min. 99.5%
DNase Activity	none detected
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	max. 6.0
Protease Activity	none detected
Residue after Ignition	max. 0.005%
RNase Activity	none detected
Solution Test	passes test

Absorbance of a 1M Solution:

at 260 nm	max. 0.04
at 280 nm	max. 0.04

Trace Impurities (in ppm):

Arsenic (As)	max. 0.2
Cadmium (Cd)	max. 2
Calcium (Ca)	max. 2
Chloride (Cl)	max. 3
Copper (Cu)	max. 0.2
Iron (Fe)	max. 1
Lead (Pb)	max. 0.1
Lithium (Li)	max. 2
Magnesium (Mg)	max. 2
Manganese (Mn)	max. 0.6
Nitrate (NO ₃)	max. 10
Phosphate (PO ₄)	max. 3
Potassium (K)	max. 2
Zinc (Zn)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
4027.1000	1 kg	
4027.5000	5 kg	

Ammonium Sulfate

'BAKER ANALYZED' / ACS

0032

▶ (NH₄)₂SO₄

M = 132.14 g/mol
CAS NO. 7783-20-2
EINECS 231-984-1
NC CODE 3102 21 000

Meets ACS Specifications

Assay	min. 99.0%
Insoluble Matter	max. 0.005%
Nitrate (NO ₃)	max. 0.001%
pH of 5% Solution at 25°C	5.0-6.0
Residue after Ignition	max. 0.005%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0032.1000	1 kg	6
0032.5000	5 kg	4
0032.9025BB	25 kg Bag-in-Box	
0032.9050	50 kg	

Ammonium Sulfide

20% / 'BAKER ANALYZED'

7003

▶ (NH₄)₂S

M = 68.14 g/mol
1 l = 1.00 kg
FLASHPOINT 15 °C
CAS NO. 12135-76-1
EINECS 235-223-4
NC CODE 2830 90 800
UN/ID NO. 2683
ADR/RID 8 CFT
IMDG 8/II
H: H314-H226-EUH031
P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a



Danger

Assay	min. 20.0%
Calcium (Ca)	max. 0.003%
Carbonate (CO ₃)	max. 0.005%
Chloride (Cl)	max. 0.05%
Potassium (K)	max. 0.001%
Residue after Ignition	max. 0.05%
Sodium (Na)	max. 0.005%

Trace Impurities (in ppm):

Copper (Cu)	max. 5
Iron (Fe)	max. 5
Magnesium (Mg)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7003.1000	1 l	

Ammonium Thiocyanate

'BAKER ANALYZED' / ACS

0034

▶ NH₄SCN

M = 76.12 g/mol
CAS NO. 1762-95-4
EINECS 217-175-6
NC CODE 2838 00 000
EC INDEX NO. 615 004 00 3
H: EUH032-H302-H312-H332
P: P261-P280-P301+P312-
P304+P340-P312-P501a



Warning

Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs

Assay (argentometric titr.)	min. 97.5%
Appearance	passes test
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Iodine-consuming Substances (as Na ₂ S ₂ O ₃) (meq/g)	max. 0.004
pH of 5% Solution at 25°C	4.5-6.0
Residue after Ignition	max. 0.01%
Sulfate (SO ₄)	max. 0.005%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0034.0100	100 g	

Ammonium Thiocyanate

'BAKER'

2662

▶ NH₄SCN

M = 76.12 g/mol
CAS NO. 1762-95-4
EINECS 217-175-6
NC CODE 2838 00 000
EC INDEX NO. 615 004 00 3
H: EUH032-H302-H312-H332
P: P261-P280-P301+P312-
P304+P340-P312-P501a



Warning

Assay	min. 99.0%
Iron (Fe)	max. 3 ppm
pH of 5% Solution at 25°C	4.0-6.0

PRODUCT NO.	PACKING	CONT. BOX
2662.9025	25 kg	

Ammonium Thiocyanate

7122

0.1 mol/l / 'BAKER ANALYZED'

▶ NH₄SCN

M = 76.12 g/mol

CAS NO. 1762-95-4

EINECS 217-175-6

NC CODE 2838 00 000

Titer (mol/l)

0.0995-0.1005

PRODUCT
NO.

PACKING

CONT.
BOX

7122.1000

1 l

Volumetric Solution, ready for use.

Ammonium Thiocyanate

4650

0.1 mol/l / DILUT-IT

▶ NH₄SCN

M = 76.12 g/mol

CAS NO. 1762-95-4

EINECS 217-175-6

NC CODE 2838 00 000

H: EUH032

PRODUCT
NO.

PACKING

CONT.
BOX

4650

1 Amp.

Volumetric Concentrate, for dilution to 1 l.

Ammoniummeta-Vanadate

See Ammonium Metavanadate

n-Amyl Alcohol

8009

'BAKER ANALYZED'

▶ CH₃(CH₂)₄OH

M = 88.15 g/mol

1 l = 0.82 kg

FLASHPOINT 33 °C

CAS NO. 71-41-0

EINECS 200-752-1

NC CODE 2905 15 000

EC INDEX NO. 603 006 00 7

UN/ID NO. 1105

ADR/RID 3 F1

IMDG 3/III

H: H226-H315-H332-H335

P: P210-P241-P261-

P303+P361+P353-P405-P501a



Warning

Assay (by GC)

min. 98%

Acids and Esters (as Amyl Acetate)

max. 0.01%

Aldehydes

passes test

Boiling Range

135-138°C

Color (APHA)

max. 5

Residue after Evaporation

max. 0.003%

Water (H₂O)

max. 0.2%

PRODUCT
NO.

PACKING

CONT.
BOX

8009.1000

1 l

6

tert-Amyl Alcohol

8012

'BAKER ANALYZED'

▶ CH₃CH₂C(CH₃)₂OH

M = 88.15 g/mol

1 l = 0.81 kg

FLASHPOINT 19 °C

CAS NO. 75-85-4

EINECS 200-908-9

NC CODE 2905 15 000

EC INDEX NO. 603 007 00 2

UN/ID NO. 1105

ADR/RID 3 F1

IMDG 3/II

H: H225-H315-H332-H335

P: P210-P241-P261-

P303+P361+P353-P405-P501a



Danger

Assay (by GC)

min. 99.0%

Acids and Esters (as Amyl Acetate)

max. 1.0%

Aldehydes

passes test

Residue after Evaporation

max. 0.004%

PRODUCT
NO.

PACKING

CONT.
BOX

8012.0100

100 ml

Anhydron

'BAKER ANALYZED' / For Drying / ACS

0035

▶ $\text{Mg}(\text{ClO}_4)_2$

M = 223.21 g/mol

CAS NO. 10034-81-8

EINECS 233-108-3

NC CODE 2829 90 100

UN/ID NO. 1475

ADR/RID 5.1 O2

IMDG 5.1/II

H: H271-H315-H319-H335

P: P210-P221-P283-
P305+P351+P338-P405-P501a

Danger

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Loss on Drying at 190°C max. 8%

Suitability for Moisture Absorption passes test

Titrable Base (meq/g) max. 0.025

Titrable Free Acid (meq/g) max. 0.005

PRODUCT
NO.

PACKING

CONT.
BOX

0035.0500

500 g

Magnesium Perchlorate, desiccant

Anthrone

'BAKER ANALYZED' / Suitable for the Detection and Determination of Carbohydrates / ACS

1231

▶ $\text{C}_{14}\text{H}_8\text{COC}_6\text{H}_4\text{CH}_2$

M = 194.24 g/mol

CAS NO. 90-44-8

EINECS 201-994-0

NC CODE 2914 39 000

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Absorbance of reagent solution passes test

Appearance passes test

Melting range, within a 5°C range,
including 156°C passes test

Sensitivity to Carbohydrates passes test

Solubility in Ethyl Acetate passes test

PRODUCT
NO.

PACKING

CONT.
BOX

1231.0025

25 g Glass

Antifoam B

Silicone emulsion

7356

1 l = 1.00 kg

NC CODE 3822 00 000

H: EUH210-H318

P: P280-P305+P351+P338-P310



Danger

PRODUCT
NO.

PACKING

CONT.
BOX

7356.0500

500 ml

Antimony 1000 µg/ml

(Matrix: 2% nitric acid plus a trace of tartaric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5703

▶ Sb

Antimony (Sb)

998-1002 µg/ml

M = 121.74 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT
NO.

PACKING

CONT.
BOX

5703.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Antimony 1000 µg/ml

(Matrix: 20% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6968

M = 121.74 g/mol

CAS NO. 28300-74-5

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Antimony (Sb)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6968.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Antimony 1000 µg/ml

6802 'BAKER ANALYZED' / Atomic Absorption Standard



Antimony (Sb)

998-1002 µg/ml

M = 121.74 g/mol
NC CODE 3822 00 000
UN/ID NO. 1789
ADR/RID 8 C1
IMDG 8/II
H: H315-H319-H335+H336
P: P261-P280-P304+P340-P305+P351+P338-P362-P405



Warning

PRODUCT NO.	PACKING	CONT. BOX
6802.0100	100 ml	

Antimony Trichloride in Hydrochloric Acid 5 mol/l.

Antimony 10000 µg/ml

5717 (Matrix: 2% nitric acid plus a trace of tartaric acid) / 'BAKER INSTRALYZED' / Plasma standard



Antimony (Sb)

9980-10020 µg/ml

M = 121.74 g/mol
NC CODE 3822 00 000
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
5717.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Antimony(III) Chloride

See Antimony Trichloride

Antimony Trichloride

0037 'BAKER ANALYZED' / ACS



Meets ACS Specifications

M = 228.11 g/mol
CAS NO. 10025-91-9
EINECS 233-047-2
NC CODE 2827 39 800
EC INDEX NO. 51 001 00 8
UN/ID NO. 1733
ADR/RID 8 C2
IMDG 8/II
H: H314-H411
P: P260-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Assay	min. 99.0%
Arsenic (As)	max. 0.02%
Calcium (Ca)	max. 0.005%
Copper (Cu)	max. 0.001%
Insoluble in Chloroform	max. 0.05%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.005%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02 %
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0037.0100	100 g	

Arsenic 1000 µg/ml

5704 (Matrix: 2% nitric acid) / 'BAKER INSTRALYZED' / Plasma standard



Arsenic (As)

998-1002 µg/ml

M = 74.92 g/mol
NC CODE 3822 00 000
EC INDEX NO. 33 001 00 0
H: H315-H319-H350
P: P280-P281-P305+P351+P338-P308+P313-P362-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
5704.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Arsenic 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6919

► As

M = 74.92 g/mol

NC CODE 3822 00 000

EC INDEX NO. 33 001 00 0

H: H315-H319-H350

P: P280-P281-P305+P351+P338-
P308+P313-P362-P405



Danger

Arsenic (As)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6919.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Arsenic 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6803

► As

M = 74.92 g/mol

NC CODE 3822 00 000

H: H315-H350

P: P280-P281-P308+P313-
P332+P313-P362-P405



Danger

Arsenic (As)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6803.0100

100 ml

Arsenic Trioxide in Nitric Acid 0.5 mol/l.

Arsenic 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5718

► As

M = 74.92 g/mol

NC CODE 3822 00 000

EC INDEX NO. 33 001 00 0

H: H350-H302-H315-H319-H412

P: P280-P281-P305+P351+P338-
P362-P301+P312-P405



Danger

Arsenic (As)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5718.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

L(+)-Ascorbic Acid

'BAKER ANALYZED' Biochemical

1018

► HOCH₂CH(OH)CHC(OH):C(OH)COO

M = 176.13 g/mol

CAS NO. 50-81-7

EINECS 200-066-2

NC CODE 2936 27 000

Assay (dried)

min. 99.5%

Heavy Metals (as Pb)

max. 0.001%

Iron (Fe)

max. 5

Loss on Drying at 105°C

max. 0.1%

Residue on Ignition

max. 0.05%

Specific Rotation [α]_D²⁰ (dried basis),
c=10 in water)

+20.5° to +21.5°

Water Insoluble Material

passes test

PRODUCT
NO.

PACKING

CONT.
BOX

1018.0100

100 g

1018.0500

500 g

L(+)-Ascorbic Acid

'BAKER'

1914

► HOCH₂CH(OH)CHC(OH):C(OH)COO

M = 176.13 g/mol

CAS NO. 50-81-7

EINECS 200-066-2

NC CODE 2936 27 000

Appearance of solution

passes test

Assay

99.0 - 100.5%

Copper (Cu)

max. 5 ppm

Heavy Metals (as Pb)

max. 10 ppm

Identification

passes test

Iron (Fe)

max. 2 ppm

Oxalic acid

passes test

Specific Optical Rotation

+20.5 - +21.5°

Sulfated Ash

max. 0.1%

PRODUCT
NO.

PACKING

CONT.
BOX

1914.0100

100 g

1914.0500

500 g

Stored in an airtight non-metallic container.

Stored protected from light.

Baker-Clear 12

7340 'BAKER' / Cleaning solution (pH 12) for general purpose

NC CODE 3822 00 000
 UN/ID NO. 1760
 ADR/RID 8 C9
 IMDG 8/III
 H: H315-H318
 P: P264-P280-P305+P351+P338-
 P310-P332+P313-P362



Danger

PRODUCT NO.	PACKING	CONT. BOX
7340.5000	5 l Jerrycan	

Use a 2% dilution for general use, 5% for intensive use or 20% for a strong cleaning effect (dilute with water).

Barbituric Acid, Anhydrous

1547 'BAKER'

▶ NHCONHCOCH2CO Assay (acidimetric) min. 99%
 M = 128.09 g/mol Heavy Metals (as Pb) max. 20 ppm
 CAS NO. 67-52-7 Iron (Fe) max. 0.002%
 EINECS 200-658-0 Loss on Drying at 105°C max. 0.5%
 NC CODE 2933 54 000

PRODUCT NO.	PACKING	CONT. BOX
1547.0100	100 g	6

Barium 1000 µg/ml

5705 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Ba Barium (Ba) 998-1002 µg/ml
 M = 137.33 g/mol
 NC CODE 3822 00 000
 EC INDEX NO. 7 004 00 1
 H: H315-H319
 P: P264-P280-P305+P351+P338-
 P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
5705.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Barium 1000 µg/ml

6920 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Ba Barium (Ba) 998-1002 µg/ml
 M = 137.33 g/mol
 NC CODE 3822 00 000
 H: H315-H319
 P: P264-P280-P305+P351+P338-
 P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
6920.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Barium 1000 µg/ml

6804 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Ba Barium (Ba) 998-1002 µg/ml
 M = 137.33 g/mol
 NC CODE 3822 00 000
 H: H315
 P: P264-P280-P302+P352-P321-
 P332+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
6804.0100	100 ml	

Barium Nitrate in Nitric Acid 0.5 mol/l.

Barium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5719

► Ba

Barium (Ba)

9980-10020 µg/ml

M = 137.33 g/mol

NC CODE 3822 00 000

EC INDEX NO. 7 004 00 1

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT
NO.

PACKING

CONT.
BOX

5719.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Barium Chloride Dihydrate

'BAKER ANALYZED' / ACS

0045

► BaCl₂·2H₂O

Exceeds ACS Specifications

M = 244.28 g/mol

CAS NO. 10326-27-9

EINECS 233-788-1

NC CODE 2827 39 800

EC INDEX NO. 56 002 00 7

UN/ID NO. 1564

ADR/RID 6.1 T5

IMDG 6.1/III

H: H301-H332

P: P261-P301+P310-P304+P340-
P312-P405-P501a

Danger

Assay

99.0 - 101.0%

Calcium (Ca)

max. 0.05%

Heavy Metals (as Pb)

max. 5 ppm

Insoluble Matter

max. 0.005%

Iron (Fe)

max. 2 ppm

Loss on Drying at 150°C

14.0-16.0%

Oxidizing Substances (as NO₂)

max. 0.005%

pH of 5% Solution at 25°C

5.2-8.2

Potassium (K)

max. 0.0025%

Sodium (Na)

max. 0.005%

Strontium (Sr)

max. 0.1%

PRODUCT
NO.

PACKING

CONT.
BOX

0045.0100

100 g

0045.1000

1 kg

6

Barium Chloride

0.5 mol/l / 'BAKER ANALYZED'

7248

► BaCl₂

Titer (mol/l)

0.495-0.505

M = 208.25 g/mol

CAS NO. 10326-27-9

NC CODE 2827 39 800

EC INDEX NO. 56 002 00 7

UN/ID NO. 3287

ADR/RID 6.1 T4

IMDG 6.1/III

H: H302-H332

P: P261-P264-P270-P301+P312-
P304+P340-P312

Warning

PRODUCT
NO.

PACKING

CONT.
BOX

7248.9010

10 l

Barium Chloride

0.05 mol/l / 'BAKER ANALYZED'

7645

► BaCl₂

Molarity (M)

0.0495-0.0505

M = 208.25 g/mol

CAS NO. 10326-27-9

NC CODE 2827 39 800

UN/ID NO. 3287

ADR/RID 6.1 T4

IMDG 6.1/III

H: EUH210

pH at 20°C

2.95-3.05

PRODUCT
NO.

PACKING

CONT.
BOX

7645.1000

1 l

▶ **Basic Fuchsin**

See Diamond Fuchsin

▶ **Bathophenanthroline**

See Diphenyl-1,10-phenanthroline

Benzene

8014

'BAKER ANALYZED' / ACS

▶ C₆H₆**M** = 78.11 g/mol**1 l** = 0.88 kg**FLASHPOINT** -11 °C**CAS NO.** 71-43-2**EINECS** 200-753-7**NC CODE** 2902 20 000**EC INDEX NO.** 601 020 00 8**UN/ID NO.** 1114**ADR/RID** 3 F1**IMDG** 3/II**H:** H225-H304-H315-H319-H340-H350-H372**P:** P210-P301+P310-P303+P361+P353-P305+P351+P338-P405-P501a

Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.0%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Substances Darkened by H ₂ SO ₄	passes test
Sulfur Compounds (as S)	max. 0.005%
Thiophene (limit about 1 ppm)	passes test
Water (H ₂ O)	max. 0.05%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8014.1000	1 l	6
8014.2500	2.5 l	4
8014.9025	25 l	

Thiophene Free.

▶ **1,2,3-Benzenetriol**

See Pyrogallol

Benzyl Alcohol

7010

'BAKER ANALYZED'

▶ C₆H₅CH₂OH**M** = 108.14 g/mol**1 l** = 1.04 kg**FLASHPOINT** 101 °C**CAS NO.** 100-51-6**EINECS** 202-859-9**NC CODE** 2906 21 000**EC INDEX NO.** 603 057 00 5**H:** H302-H332**P:** P261-P264-P301+P312-P304+P340-P312-P501a

Warning

Assay (by GC)	min. 99%
Boiling Range	202.5-206.5°C
Chloride Compounds (as Cl)	max. 0.02%
Density (g/ml) at 25°C	1.038-1.042
Residue after Ignition	max. 0.005%
Solubility in Water	passes test

PRODUCT NO.	PACKING	CONT. BOX
7010.1000	1 l	
7010.2500	2.5 l	

WWW.AVANTORMATERIALS.COM

AVANTOR™
PERFORMANCE MATERIALS

Benzyl Alcohol

99% / HISTO GRADE

3402

► C ₆ H ₅ CH ₂ OH	Assay (by GC)	min. 99%
M = 108.14 g/mol		
1 l = 1.04 kg		
FLASHPOINT 101 °C		
CAS NO. 100-51-6		
EINECS 202-859-9		
NC CODE 2906 21 000		
EC INDEX NO. 603 057 00 5		
H: H302-H332		
P: P261-P264-P301+P312-P304+P340-P312-P501a		



Warning

PRODUCT NO.	PACKING	CONT. BOX
3402.9025	25 l Jerrycan	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Beryllium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5706

► Be	Beryllium (Be)	998-1002 µg/ml
M = 9.01 g/mol		
NC CODE 3822 00 000		
EC INDEX NO. 4 002 00 2		
H: H350i-H315-H319-EUH208		
P: P280-P281-P305+P351+P338-P362-P308+P313-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
5706.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Beryllium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6921

► Be	Beryllium (Be)	998-1002 µg/ml
M = 9.01 g/mol		
NC CODE 3822 00 000		
EC INDEX NO. 4 002 00 2		
H: H350i-H315-H319-EUH208		
P: P280-P281-P305+P351+P338-P362-P308+P313-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
6921.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Beryllium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6805

► Be	Beryllium (Be)	995 - 1005 µg/ml
M = 9.01 g/mol		
NC CODE 3822 00 000		
H: H350i-H315-EUH208		
P: P280-P281-P362-P308+P313-P332+P313-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
6805.0100	100 ml	

Basic Beryllium Acetate in Nitric Acid 0.5 mol/l.

Beryllium 10000 µg/ml

5720

(Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

► Be

Beryllium (Be)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

M = 9.01 g/mol

NC CODE 3822 00 000

EC INDEX NO. 4 002 00 2

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H331-H350i-H373-H314-
H302-H317-H412P: P221-P210-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Bismuth 1000 µg/ml

5707

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

► Bi

Bismuth (Bi)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

M = 208.98 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2 %. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Bismuth 1000 µg/ml

6922

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

► Bi

Bismuth (Bi)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

M = 208.98 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Bismuth 1000 µg/ml

6806

'BAKER ANALYZED' / Atomic Absorption Standard

► Bi

Bismuth (Bi)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

M = 208.98 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-
P332+P313-P362

Warning

Bismuth(III)nitrate in Nitric Acid 0.5 mol/l.

Bismuth 10000 µg/ml

(Matrix: 10% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5721

► Bi

M = 208.98 g/mol
NC CODE 3822 00 000
UN/ID NO. 2031
ADR/RID 8 CO1
IMDG 8/II
H: H272-H314
P: P210-P221-P303+P361+P353-P305+P351+P338-P310-P405



Danger

Bismuth (Bi) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5721.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Bismuth(III) Nitrate Pentahydrate

'BAKER ANALYZED'

1029

► Bi(NO₃)₃·5H₂O

M = 485.07 g/mol
CAS NO. 10035-06-0
EINECS 233-791-8
NC CODE 2834 29 800
UN/ID NO. 1477
ADR/RID 5.1 O2
IMDG 5.1/II
H: H272
P: P210-P220-P221-P280-P370+P378a-P501a



Danger

Assay (by EDTA titrn.)	min. 99.0%
Arsenic (As)	max. 0.001%
Chloride (Cl)	max. 0.001%
Copper (Cu) (by AAS)	max. 0.002%
Insoluble in HNO ₃	max. 0.005%
Iron (Fe) (by AAS)	max. 0.001%
Lead (Pb) (by AAS)	max. 0.002%
Silver (Ag)	max. 0.001%
Sulfate (SO ₄)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
1029.0500	500 g	

Bismuth(III) Oxide

'BAKER ANALYZED'

1032

► Bi₂O₃

M = 465.96 g/mol
CAS NO. 1304-76-3
EINECS 215-134-7
NC CODE 2825 90 800

Assay (by EDTA titrn.)	min. 99.0%
Chloride (Cl)	max. 0.001%
Iron (Fe) (by AAS)	max. 0.005%
Lead (Pb) (by AAS)	max. 0.003%
Nitrate (NO ₃)	max. 0.03%
Sulfur Compounds (as SO ₄)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
1032.0100	100 g	

Borax

See Disodium Tetraborate Decahydrate

Boric Acid

ULTREX Ultrapure Reagent / For applications in Fiber Optics Manufacture

5168

► H₃BO₃

M = 61.83 g/mol
CAS NO. 10043-35-3
EINECS 233-139-2
NC CODE 2810 00 900
H: H360FD
P: P201-P202-P281-P308+P313-P405-P501a



Danger

Actual Lot Analysis Lot No. J40634

Assay (by acid-base titration)	99.9%
Nonvolatile with Methanol	< 0.0004%
Particulate Matter	< 0.002%

Metallic Impurities in parts per million (µg/g):

Aluminium (Al)	< 0.2
Barium (Ba)	< 0.2
Calcium (Ca)	< 0.1
Chromium (Cr)	< 0.2
Cobalt (Co)	< 0.2
Copper (Cu)	< 0.1
Iron (Fe)	< 0.2
Manganese (Mn)	< 0.1
Nickel (Ni)	< 0.1
Tin (Sn)	< 0.2
Titanium (Ti)	< 0.2
Vanadium (V)	< 0.1
Zirconium (Zr)	< 0.2

Non-Metallic Impurities in parts per million (µg/g):

Arsenic (As)	< 0.04
Halide (as Cl)	< 2
Phosphate (PO ₄)	< 0.4
Sulfur Compounds (as SO ₄)	< 0.4

PRODUCT NO.	PACKING	CONT. BOX
5168.0100	100 g PE	

Boric

Boric Acid

4035 'BAKER ULTRAPURE BIOREAGENT' / For Molecular Biology Buffers

▶ H_3BO_3

M = 61.83 g/mol

CAS NO. 10043-35-3

EINECS 233-139-2

NC CODE 2810 00 900

H: H360FD

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Assay	min. 99.5%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
DNAase	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble in Methanol	max. 0.005%
Iron (Fe)	max. 0.001%
Phosphate (PO_4)	max. 0.001%
Protease	none detected
RNAase	none detected
Sulfate (SO_4)	max. 0.005%

Trace Impurities (in ppm):

Arsenic (As)	max. 1
Magnesium (Mg)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4035.0500	500 g	
4035.2500	2.5 kg	

Boric Acid

0055 'BAKER ANALYZED' / ACS

▶ H_3BO_3

M = 61.83 g/mol

CAS NO. 10043-35-3

EINECS 233-139-2

NC CODE 2810 00 900

H: H360FD

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Exceeds ACS Specifications

Assay	min. 99.5%
Arsenic (As)	max. 1 ppm
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble in Methanol	max. 0.005%
Iron (Fe)	max. 0.001%
Nonvolatile with Methanol	max. 0.05%
Phosphate (PO_4)	max. 0.001%
Sulfate (SO_4)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0055.0500	500 g	6
0055.1000	1 kg	6
0055.9025	25 kg	

Boric Acid

0501 'BAKER'

▶ H_3BO_3

M = 61.83 g/mol

CAS NO. 10043-35-3

EINECS 233-139-2

NC CODE 2810 00 900

H: H360FD

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Assay	99.0-100.5%
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 15 ppm
Identification	passes test
Loss on Drying	max. 0.5%
Organic Matter	passes test
pH	3.8-4.8
Solubility in Alcohol	passes test
Sulfates (as SO_4)	max. 450 ppm

PRODUCT NO.	PACKING	CONT. BOX
0501.1000	1 kg	6

Stored in a well closed container.

Boric Anhydride

1176 'BAKER'

▶ B_2O_3

M = 69.62 g/mol

CAS NO. 1303-86-2

EINECS 215-125-8

NC CODE 2810 00 100

H: H360FD

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Assay (B_2O_3) (ignited basis)	min. 98.0%
Loss on Ignition	max. 10.0%
Sulfate (SO_4)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1176.0500	500 g	

Boron 1000 µg/ml

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5708

► B

M = 10.81 g/mol

NC CODE 3822 00 000

H: EUH210-H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Boron (B)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5708.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Boron 1000 µg/ml

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6923

► B

M = 10.81 g/mol

NC CODE 3822 00 000

H: EUH210-H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Boron (B)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6923.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Boron 10000 µg/ml

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5722

► B

M = 10.81 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P280-P264-P305+P351+P338-
P362-P332+P313-P337+P313

Warning

Boron (B)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5722.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Bouin's Fixative

HISTO GRADE

3880

NC CODE 3822 00 000

H: H351-H302-H315-H319-H317-
H335+H336P: P261-P280-P281-
P305+P351+P338-P362-P405

Warning

Fixative according to Bouin

PRODUCT
NO.

PACKING

CONT.
BOX

3880.1000

1 l Glass

Ready to use Fixative for use in Histo-Pathology applications.

Bovine Albumin, Fraction V

See Albumin (Bovine) Fraction V



Brij 35

1240

'BAKER'

CAS NO. 9002-92-0

Appearance of solution

passes test

NC CODE 3402 13 000

H: H302-H319

P: P264-P280-P301+P312-

P305+P351+P338-P337+P313-

P501a



Warning

PRODUCT
NO.

PACKING

CONT.
BOX

1240.0250

250 g

7123

Bromine (Bromide-Bromate) 0.05 mol Br₂/l

'BAKER ANALYZED'

▶ Br₂

NC CODE 2801 30 900

H: H350

P: P201-P202-P281-P308+P313-

P405-P501a



Danger

PRODUCT
NO.

PACKING

CONT.
BOX

7123.1000

1 l

Volumetric Solution, ready for use.

4708

Bromine (Bromide-Bromate) 0.05 mol Br₂/l

1/10 equiv. = 7.99 g; 0.1N / DILUT-IT

▶ Br₂

NC CODE 2801 30 900

H: H350

P: P201-P202-P281-P308+P313-

P405-P501a



Danger

PRODUCT
NO.

PACKING

CONT.
BOX

4708

1 Amp.

Volumetric Concentrate, for dilution to 1 l.

1511

Bromocresol Green

'BAKER ANALYZED' / ACS

▶ $C_6H_4SO_2OC(C_6H_2-3,5-Br_2-4-OH)_2$

M = 698.02 g/mol

CAS NO. 76-60-8

EINECS 200-972-8

NC CODE 2934 99 900

Meets ACS Specifications

Clarity of Solution

passes test

Visual Transition Interval:

pH 3.8

yellow

pH 5.4

blue

PRODUCT
NO.

PACKING

CONT.
BOX

1511.0005

5 g

1330

Bromocresol Purple

'BAKER'

▶ $C_6H_4SO_2OC(C_6H_2-3-CH_3-4-OH-5-Br)_2$

M = 540.23 g/mol

CAS NO. 115-40-2

EINECS 204-087-8

NC CODE 2934 99 900

Insoluble Matter

passes test

Visual Transition Interval:

pH 5.2

yellow

pH 6.8

purple

PRODUCT
NO.

PACKING

CONT.
BOX

1330.0005

5 g

1369

Bromophenol Blue

'BAKER ANALYZED' / ACS

▶ $C_6H_4SO_2OC(C_6H_2-3,5-Br_2-4-OH)_2$

M = 669.97 g/mol

CAS NO. 115-39-9

EINECS 204-086-2

NC CODE 2934 99 900

Meets ACS Specifications

Clarity of Solution

passes test

Visual Transition Interval:

pH 3.0

yellow

pH 4.6

blue

PRODUCT
NO.

PACKING

CONT.
BOX

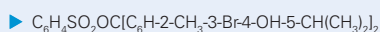
1369.0005

5 g

Bromothymol Blue

'BAKER ANALYZED' / ACS

1513



M = 624.39 g/mol

CAS NO. 76-59-5

EINECS 200-971-2

NC CODE 2934 99 900

Meets ACS Specifications

Clarity of Solution passes test

Visual Transition Interval:

pH 6.0 yellow

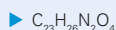
pH 7.6 blue

PRODUCT NO.	PACKING	CONT. BOX
1513.0005	5 g	
1513.0025	25 g Glass	

Brucine

'BAKER'

2459



M = 394.48 g/mol

CAS NO. 357-57-3

EINECS 206-614-7

NC CODE 2939 99 000

EC INDEX NO. 614 006 00 1

UN/ID NO. 1570

ADR/RID 6.1 T2

IMDG 6.1/I

H: H300-H330-H412

P: P260-P284-P301+P310-P310-

P405-P501a



Danger

Assay (by Perchloric Acid titrn.) min. 99.5%

Melting Point 176-179°C

Nitrate (NO₃) passes test

Sensitivity to Nitrate passes test

Specific Rotation [α]_D²⁰ -83 to -86°

Sulfated Ash max. 0.1%

Water (H₂O) max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
2459.0010	10 g	

Buffer

See Scotch Buffer

Buffer Concentrate

pH 1 / DILUT-IT

4850

NC CODE 3822 00 000

H: EUH210

pH at 20°C 1.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4850	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Potassium Chloride / Hydrochloric Acid.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

pH 2 / DILUT-IT

4851

NC CODE 3822 00 000

pH at 20°C 2.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4851	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Citric Acid / Hydrochloric Acid.

This buffer is traceable to NIST Standard Reference Buffer.

4852 Buffer Concentrate
pH 3 / DILUT-IT
NC CODE 3822 00 000 pH at 20°C 3.00 ± 0.02
H: H315-H319**P:** P264-P280-P305+P351+P338-P332+P313-P337+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
4852	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Citric Acid / Sodium Hydroxide / Sodium Chloride.

This buffer is traceable to NIST Standard Reference Buffer.

4795 Buffer Concentrate
pH 4 / DILUT-IT
NC CODE 3822 00 000 pH at 25°C 4.00 ± 0.01
H: H315-H319**P:** P264-P280-P305+P351+P338-P332+P313-P337+P313-P362

Warning

Composition:

Buffer Capacity, B 0.016

Dilution value, $\Delta \text{pH}^{1/2}$ +0.05

Ionic Strength, I 0.05

NaOOC.C₆H₄COOH 0.05 M

Temperature Coefficient, d (pH)/dT (25°C) +0.001

Useful Buffer Range, pH 3.0-5.0

PRODUCT NO.	PACKING	CONT. BOX
4795	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Phthalic Acid / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

4860 Buffer Concentrate
pH 4 RED / DILUT-IT
NC CODE 3822 00 000 pH at 20°C 4.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4860	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Potassium Hydrogen Phthalate / Coloring Agent.

This buffer is traceable to NIST Standard Reference Buffer.

4853 Buffer Concentrate
pH 5 / DILUT-IT
NC CODE 3822 00 000 pH at 20°C 5.00 ± 0.02
H: H314**P:** P260-P280-P303+P361+P353-P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4853	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Citric Acid / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

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Buffer Concentrate

pH 6 / DILUT-IT

4854

NC CODE 3822 00 000 pH at 20°C 6.00 ± 0.02

H: H314

P: P260-P280-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
4854	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Citric Acid / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

pH 7 / DILUT-IT

4796

NC CODE 3822 00 000 pH at 25°C 7.00 ± 0.01

Composition:

Buffer Capacity, B 0.028

Dilution value, Δ pH_{1/2} +0.08

Ionic Strength, I 0.1

Na₂HPO₄ 0.029 M

NaH₂PO₄ 0.021 M

Temperature Coefficient, d (pH)/dT (25°C) -0.002

Useful Buffer Range, pH 6.5-7.5

PRODUCT NO.	PACKING	CONT. BOX
4796	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Sodium Dihydrogen Phosphate / Disodium Hydrogen Phosphate.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

pH 7 GREEN / DILUT-IT

4861

NC CODE 3822 00 000 pH at 20°C 7.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4861	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Potassium Dihydrogen Phosphate / Disodiumhydrogen Phosphate / Coloring Agent.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

pH 7.20, according to Weise / DILUT-IT

4863

NC CODE 3822 00 000 pH at 20°C 7.20 ± 0.05

PRODUCT NO.	PACKING	CONT. BOX
4863	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l

Contains Potassium Dihydrogen Phosphate / Disodium Hydrogen Phosphate.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

4856 pH 8 / DILUT-IT

NC CODE 3822 00 000

pH at 20°C

8.00 ± 0.02

H: EUH210

PRODUCT NO.	PACKING	CONT. BOX
4856	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Sodium Tetraborate / Hydrochloric Acid.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

4878 pH 9 / DILUT-IT

NC CODE 3822 00 000

pH at 20°C

9.00 ± 0.02

H: EUH210

PRODUCT NO.	PACKING	CONT. BOX
4878	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Hydrochloric Acid / Disodium Tetraborate.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

4862 pH 9 BLUE / DILUT-IT

NC CODE 3822 00 000

pH at 20°C

9.00 ± 0.02

H: H315-H319

P: P280-P264-P305+P351+P338-P362-P332+P313-P337+P313



Warning

PRODUCT NO.	PACKING	CONT. BOX
4862	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Sodium Hydroxide / Potassium Chloride / Boric Acid / Coloring Agent.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

4797 pH 10 / DILUT-IT

NC CODE 3822 00 000

pH at 25°C

10.00 ± 0.01

H: EUH210

Composition:

Buffer Capacity, B	0.030
Dilution value, $\Delta \text{pH}/2$	+0.08
Ionic Strength, I	0.1
Na_2CO_3	0.025 M
NaHCO_3	0.025 M
Temperature Coefficient, d (pH)/dT (25°C)	-0.010
Useful Buffer Range, pH	9.5-10.5

PRODUCT NO.	PACKING	CONT. BOX
4797	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Sodium Carbonate / Sodium Hydrogen Carbonate.

This buffer is traceable to NIST Standard Reference Buffer.



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PERFORMANCE MATERIALS

Buffer Concentrate

pH 11 / DILUT-IT

4857

NC CODE 3822 00 000 pH at 20°C 11.00 ± 0.02
H: H314-H360
P: P260-P280-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
4857	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Sodium Hydroxide / Potassium Chloride / Boric Acid.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Concentrate

pH 12 / DILUT-IT

4858

NC CODE 3822 00 000 pH at 20°C 12.00 ± 0.02
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
4858	1 Amp.	6

Volumetric concentrate, for dilution to 500 ml.

Contains Sodium Hydroxide / Disodium Hydrogen Phosphate.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 1.00 [KCl/HCl] / 'BAKER ANALYZED'

7261

NC CODE 3822 00 000 pH at 20°C 1.00 ± 0.02
Temperature (°C):
 0 pH 0.94
 10 pH 0.99
 20 pH 1.00
 30 pH 1.00
 40 pH 1.01
 50 pH 1.01
 60 pH 1.01
 70 pH 1.01
 80 pH 1.02
 90 pH 1.02

PRODUCT NO.	PACKING	CONT. BOX
7261.1000	1 l	

Contains Potassium Chloride / Hydrochloric Acid.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 2.00 [Citrate/HCl] / 'BAKER ANALYZED'

7144

NC CODE 3822 00 000 pH at 20°C 2.00 ± 0.02
Temperature (°C):
 0 pH 1.99
 10 pH 1.99
 20 pH 2.00
 30 pH 2.00
 40 pH 2.00
 50 pH 2.00
 60 pH 2.00
 70 pH 2.00
 80 pH 2.00
 90 pH 2.00

PRODUCT NO.	PACKING	CONT. BOX
7144.1000	1 l	6

Contains 0.01 % Sodium Benzoate.

Contains Sodium Citrate / Hydrochloric Acid.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

7159 pH 3.00 [Citrate/HCl] / 'BAKER ANALYZED'

NC CODE	3822 00 000	pH at 20°C	3.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
		Temperature (°C):		7159.1000	1 l	6
		0	pH 3.03	Contains 0.01 % Sodium Benzoate.		
		10	pH 3.02			
		20	pH 3.00			
		30	pH 3.00			
		40	pH 2.99			
		50	pH 2.98	Contains Sodium Citrate / Hydrochloric Acid.		
		60	pH 2.98			
		70	pH 2.98			
		80	pH 2.98			
		90	pH 2.97			
				This buffer is traceable to NIST Standard Reference Buffer.		

Buffer Solution

7262 pH 4.00 [Citrate/HCl] / 'BAKER ANALYZED'

NC CODE	3822 00 000	pH at 20°C	4.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
		Temperature (°C):		7262.1000	1 l	6
		0	pH 4.03	Contains 0.01 % Sodium Benzoate.		
		10	pH 4.02			
		20	pH 4.00			
		30	pH 4.00			
		40	pH 4.00			
		50	pH 4.00	Contains Sodium Citrate / Hydrochloric Acid.		
		60	pH 4.00			
		70	pH 4.00			
		80	pH 4.00			
		90	pH 4.00			
				This buffer is traceable to NIST Standard Reference Buffer.		

Buffer Solution

5657 pH 4.00 [Phthalate] / 'BAKER ANALYZED'

NC CODE	3822 00 000	pH at 25°C	4.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
		Temperature (°C):		5657.0500	500 ml	6
		0	pH 4.00	5657.1000	1 l	6
		10	pH 4.00	5657.2500PE	2.5 l HDPE	4
		20	pH 4.00	5657.5000PE	5 l HDPE	4
		30	pH 4.01	5657.9010	10 l Polycube	
		40	pH 4.03	Contains 0.01 % Sodium Benzoate.		
		50	pH 4.05			
		60	pH 4.08			
		70	pH 4.12			
		80	pH 4.16			
		90	pH 4.21	Contains Potassium Hydrogen Phthalate.		
				This buffer is traceable to NIST Standard Reference Buffer.		

Buffer Solution

5654 pH 4.00 [Phthalate] RED / 'BAKER ANALYZED'

NC CODE	3822 00 000	pH at 20°C	4.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
		Temperature (°C):		5654.0500	500 ml	6
		0	pH 4.00	5654.1000	1 l HDPE	6
		10	pH 4.00	5654.9010	10 l	
		20	pH 4.00	Contains 0.01 % Sodium Benzoate.		
		30	pH 4.01			
		40	pH 4.03			
		50	pH 4.05			
		60	pH 4.08			
		70	pH 4.12	Contains Potassium Hydrogen Phthalate.		
		80	pH 4.16			
		90	pH 4.21	This buffer is traceable to NIST Standard Reference Buffer.		

Buffer Solution

pH 5.00 [Citrate] / 'BAKER ANALYZED'

7263

NC CODE 3822 00 000

pH at 20°C

5.00 ± 0.05

Temperature (°C):

0	pH 5.05
10	pH 5.02
20	pH 5.00
30	pH 5.00
40	pH 5.00
50	pH 5.02
60	pH 5.04
70	pH 5.07
80	pH 5.10
90	pH 5.13

PRODUCT NO.

PACKING

CONT. BOX

7263.1000	1 l	6

Contains Citric Acid / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 6.00 [Citrate] / 'BAKER ANALYZED'

7264

NC CODE 3822 00 000

pH at 20°C

6.00 ± 0.05

Temperature (°C):

0	pH 6.03
10	pH 6.01
20	pH 6.00
30	pH 6.02
40	pH 6.04
50	pH 6.06
60	pH 6.09
70	pH 6.13
80	pH 6.18
90	pH 6.24

H: H315-H319

P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

PRODUCT NO.

PACKING

CONT. BOX

7264.1000	1 l	6

Contains Citric Acid / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 7.00 [Phosphate] / 'BAKER ANALYZED'

5656

NC CODE 3822 00 000

pH at 20°C

7.00 ± 0.02

Temperature (°C):

0	pH 7.13
10	pH 7.05
20	pH 7.00
25	pH 6.98
30	pH 6.98
40	pH 6.97
50	pH 6.96
60	pH 6.96
70	pH 6.97
80	pH 6.98
90	pH 7.00

PRODUCT NO.

PACKING

CONT. BOX

5656.0500	500 ml	6
5656.1000	1 l	6
5656.2500PE	2.5 l HDPE	4
5656.5000PE	5 l HDPE	4
5656.9010	10 l Polycube	

Contains 0.01 % Sodium Benzoate.

Contains Potassium Dihydrogen Phosphate / Disodium Hydrogen Phosphate.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 7.00 [Phosphate] GREEN / 'BAKER ANALYZED'

5653

NC CODE 3822 00 000

pH at 20°C

7.00 ± 0.02

Temperature (°C):

0	pH 7.13
10	pH 7.05
20	pH 7.00
25	pH 6.98
30	pH 6.98
40	pH 6.97
50	pH 6.96
60	pH 6.96
70	pH 6.97
80	pH 6.98
90	pH 7.00

PRODUCT NO.

PACKING

CONT. BOX

5653.0500	500 ml	6
5653.1000	1 l HDPE	6
5653.9010	10 l	

Contains 0.01 % Sodium Benzoate.

Contains Potassium Dihydrogen Phosphate / Disodium Hydrogen Phosphate.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

7265 pH 8.00 [Phosphate] / 'BAKER ANALYZED'

NC CODE 3822 00 000

pH at 20°C

8.00 ± 0.05

Temperature (°C):

0	pH 8.15
10	pH 8.10
20	pH 8.00
30	pH 7.94
40	pH 7.90
50	pH 7.85
60	pH 7.83
70	pH 7.80
80	pH 7.78
90	pH 7.75

PRODUCT
NO.

PACKING

CONT.
BOX

7265.1000

1 l

6

Contains Potassium Dihydrogen Phosphate / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

7145 pH 9.00 [Borate] / 'BAKER ANALYZED'

NC CODE 3822 00 000

pH at 20°C

9.00 ± 0.02

H: H315-H319

P: P280-P264-P305+P351+P338-
P362-P332+P313-P337+P313

Warning

Temperature (°C):

0	pH 9.23
10	pH 9.10
20	pH 9.00
30	pH 8.91
40	pH 8.84
50	pH 8.78
60	pH 8.73
70	pH 8.69
80	pH 8.66
90	pH 8.62

PRODUCT
NO.

PACKING

CONT.
BOX

7145.1000

1 l

6

Contains 0.01 % Sodium Benzoate.

Contains Boric Acid / Potassium Chloride / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

5652 pH 9.00 [Borate] BLUE / 'BAKER ANALYZED'

NC CODE 3822 00 000

pH at 20°C

9.00 ± 0.02

H: EUH210

Temperature (°C):

0	pH 9.23
10	pH 9.10
20	pH 9.00
30	pH 8.91
40	pH 8.84
50	pH 8.78
60	pH 8.73
70	pH 8.69
80	pH 8.66
90	pH 8.62

PRODUCT
NO.

PACKING

CONT.
BOX

5652.0500

500 ml

6

5652.1000

1 l HDPE

6

5652.9010

10 l

Contains 0.01 % Sodium Benzoate.

Contains Boric Acid / Potassium Chloride / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

5655 pH 10.00 [Borate] / 'BAKER ANALYZED'

NC CODE 3822 00 000

pH at 25°C

10.00 ± 0.05

H: EUH210

Temperature (°C):

0	pH 10.30
10	pH 10.17
20	pH 10.05
25	pH 10.00
30	pH 9.96
40	pH 9.89
50	pH 9.82
60	pH 9.76
70	pH 9.72
80	pH 9.68
90	pH 9.64

PRODUCT
NO.

PACKING

CONT.
BOX

5655.0500

500 ml

6

5655.1000

1 l

6

5655.9010

10 l Polycube

Contains 0.01 % Sodium Benzoate.

Contains Boric Acid / Potassium Chloride / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 10.00 [Borate] BLUE / 'BAKER ANALYZED'

5651

NC CODE 3822 00 000

H: EUH210

pH at 25°C

10.00 ± 0.05

Temperature (°C):

0	pH 10.30
10	pH 10.17
20	pH 10.05
25	pH 10.00
30	pH 9.96
40	pH 9.89
50	pH 9.82
60	pH 9.76
70	pH 9.72
80	pH 9.68
90	pH 9.64

PRODUCT

NO.

PACKING

CONT.

BOX

5651.0500	500 ml	6
5651.1000	1 l HDPE	6
5651.9010	10 l	

Contains 0.01 % Sodium Benzoate.

Contains Boric Acid / Potassium Chloride / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 10-11 (NH₄Cl/NH₄OH) / 'BAKER ANALYZED'

7268

NC CODE 3822 00 000

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405



Danger

pH at 20°C

10-11

PRODUCT

NO.

PACKING

CONT.

BOX

7268.1000	1 l	6

Contains Ammonium Chloride / Ammonium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 11.00 [Glycine] / 'BAKER ANALYZED'

7267

NC CODE 3822 00 000

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405



Danger

pH at 20°C

11.00 ± 0.05

Temperature (°C):

20	pH 11.00
30	pH 10.70
40	pH 10.42
50	pH 10.18
60	pH 9.92
70	pH 9.70
80	pH 9.50
90	pH 9.30

PRODUCT

NO.

PACKING

CONT.

BOX

7267.1000	1 l	6

Contains Glycine / Sodium Chloride / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

pH 12.00 [Phosphate] / 'BAKER ANALYZED'

7269

NC CODE 3822 00 000

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405



Danger

pH at 20°C

12.00 ± 0.05

Temperature (°C):

0	pH 12.58
10	pH 12.26
20	pH 12.00
30	pH 11.75
40	pH 11.53
50	pH 11.31
60	pH 11.09
70	pH 10.88
80	pH 10.68
90	pH 10.48

PRODUCT

NO.

PACKING

CONT.

BOX

7269.1000	1 l	

Contains 0.01 % Sodium Benzoate.

Contains Sodium Hydroxide / Disodium Hydrogen Phosphate.

This buffer is traceable to NIST Standard Reference Buffer.

Buffer Solution

7270 pH 13.00 [Glycine] / 'BAKER ANALYZED'

NC CODE 3822 00 000

pH at 20°C

13.00 ± 0.05

Temperature (°C):

0	pH 13.71
10	pH 13.35
20	pH 13.00
30	pH 12.66
40	pH 12.37
50	pH 12.10
60	pH 11.84
70	pH 11.61
80	pH 11.40
90	pH 11.20

PRODUCT NO.

PACKING

CONT. BOX

7270.1000

1 l

Contains 0.01 % Sodium Benzoate.

Contains Glycine / Sodium Chloride / Sodium Hydroxide.

This buffer is traceable to NIST Standard Reference Buffer.



2-Butanone

See Methyl Ethyl Ketone

8414

2-Butoxyethanol

'BAKER'

► CH₃(CH₂)₃OCH₂CH₂OH

M = 118.18 g/mol

1 l = 0.90 kg

FLASHPOINT 61 °C

CAS NO. 111-76-2

EINECS 203-905-0

NC CODE 2909 43 000

EC INDEX NO. 603 014 00 0

UN/ID NO. 2810

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H312-H315-H319-H332

P: P261-P280-P301+P312-P305+P351+P338-P362-P501a



Warning

Acidity (as CH₃COOH)

max. 0.01 %

Boiling Range

169-173°C

Density (g/ml) at 20°C

0.900-0.904

Water (H₂O)

max. 0.2 %

PRODUCT NO.

PACKING

CONT. BOX

8414.1000

1 l

8414.2500

2.5 l

8018

n-Butyl Acetate

'BAKER'

► CH₃COOCH₂CH₂CH₂CH₃

M = 116.16 g/mol

1 l = 0.88 kg

FLASHPOINT 24 °C

CAS NO. 123-86-4

EINECS 204-658-1

NC CODE 2915 33 000

EC INDEX NO. 607 025 00 1

UN/ID NO. 1123

ADR/RID 3 F1

IMDG 3/III

H: EUH066-H226-H336

P: P210-P241-P261-P303+P361+P353-P405-P501a



Warning

Assay

min. 98 %

Acidity (as CH₃COOH)

max. 0.005 %

Boiling Range

124-127°C

Density (g/ml) at 20°C

0.878-0.881

n-Butanol

max. 0.5 %

Residue after Evaporation

max. 0.005 %

Water (H₂O) (by Karl Fischer titrm.)

max. 0.05 %

Trace Impurities (in ppm):

Heavy Metals (as Pb)

max. 0.5

Iron (Fe)

max. 0.5

PRODUCT NO.

PACKING

CONT. BOX

8018.1000

1 l

8018.9025

25 l

8018.9200

200 l

For safe handling of 25 l tin cans, see Self-closing tap.

n-Butyl Alcohol

'BAKER ANALYZED' / ACS

8017

► CH₃CH₂CH₂CH₂OH

M = 74.12 g/mol

1 l = 0.81 kg

FLASHPOINT 29 °C

CAS NO. 71-36-3

EINECS 200-751-6

NC CODE 2905 13 000

EC INDEX NO. 603 004 00 6

UN/ID NO. 1120

ADR/RID 3 F1

IMDG 3/III

H: H226-H302-H315-H318-
H335+H336P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Exceeds ACS Specifications

Assay (by GC)	min. 99.4%
Aldehydes	passes test
Butyl Ether (by GC)	max. 0.2%
Carbonyl Compounds (as butyraldehyde)	max. 0.01%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Titration Acid (meq/g)	max. 0.0008
Water (H ₂ O)	max. 0.1%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8017.1000	1 l	6
8017.2500	2.5 l	4
8017.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

tert-Butyl Methyl Ether

See Methyl tert-Butyl Ether

iso-Butyl Methyl Ketone

See Methyl Isobutyl Ketone

Butyl Phosphate

See Tributyl Phosphate

Cadmium 1000 µg/ml

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5709

► Cd

M = 112.41 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-
P332+P313-P362

Warning

Cadmium (Cd) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5709.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Cadmium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6924

► Cd

M = 112.41 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-
P332+P313-P362

Warning

Cadmium (Cd) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6924.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Cadmium 1000 µg/ml

6807

'BAKER ANALYZED' / Atomic Absorption Standard

▶ Cd

Cadmium (Cd)

998-1002 µg/ml

M = 112.41 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-P332+P313-P362



Warning

PRODUCT
NO.

PACKING

CONT.
BOX

6807.0100

100 ml

Cadmium Nitrate in Nitric Acid 0.5 mol/l.

Cadmium 10000 µg/ml

5723

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Cd

Cadmium (Cd)

9980-10020 µg/ml

M = 112.41 g/mol

NC CODE 3822 00 000

H: H315-H319-H412

P: P280-P273-P305+P351+P338-P362-P332+P313-P337+P313



Warning

PRODUCT
NO.

PACKING

CONT.
BOX

5723.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Cadmium Chloride Anhydrous

1039

powder / 'BAKER ANALYZED' / ACS

▶ CdCl₂

Meets ACS Specifications

M = 183.31 g/mol

CAS NO. 10108-64-2

EINECS 233-296-7

NC CODE 2827 39 800

EC INDEX NO. 48 008 00 3

UN/ID NO. 2570

ADR/RID 6.1 T5

IMDG 6.1/II

H: H301-H330-H340-H350-H360FD-H372-H400-H410

P: P260-P284-P301+P310-P310-P405-P501a



Danger

Assay (argentometric titrn.)	min. 99.0%
Ammonium (NH ₄)	max. 0.01%
Calcium (Ca)	max. 0.01%
Copper (Cu)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.005%
Nitrate and Nitrite (as NO ₃)	max. 0.003%
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.01%
Zinc (Zn)	max. 0.05%

PRODUCT
NO.

PACKING

CONT.
BOX

1039.0500

500 g

Cadmium Chloride 2,5-Hydrate

1208-01

'BAKER ANALYZED' / ACS

▶ CdCl₂·2.5H₂O

Exceeds ACS Specifications

M = 228.34 g/mol

CAS NO. 7790-78-5

EINECS 233-296-7

NC CODE 2827 39 800

EC INDEX NO. 48 008 00 3

UN/ID NO. 2570

ADR/RID 6.1 T5

IMDG 6.1/II

H: H301-H330-H340-H350-H360FD-H372-H400-H410

P: P260-P284-P301+P310-P310-P405-P501a



Danger

Assay (CdCl ₂) (by Ag titrn.)	79.5-81.0%
Ammonium (NH ₄)	max. 0.002%
Calcium (Ca)	max. 0.005%
Insoluble Matter	max. 0.005%
Lead (Pb)	max. 0.005%
Nitrate and Nitrite (as NO ₃)	max. 0.003%
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.005%
Zinc (Zn)	max. 0.05%

Trace Impurities (in ppm):

Copper (Cu)	max. 5
Iron (Fe)	max. 5

PRODUCT
NO.

PACKING

CONT.
BOX

1208-01

500 g HDPE

Cadmium Sulfate Octahydrate

'BAKER ANALYZED' / ACS

1043

▶ $3\text{CdSO}_4 \cdot 8\text{H}_2\text{O}$

M = 769.51 g/mol

CAS NO. 7790-84-3

EINECS 233-331-6

NC CODE 2833 29 100

EC INDEX NO. 48 009 00 9

UN/ID NO. 2570

ADR/RID 6.1 T5

IMDG 6.1/III

H: H301-H330-H340-H350-H360FD-
H372-H400-H410P: P260-P284-P301+P310-P310-
P405-P501a

Danger

Exceeds ACS Specifications

Assay	99.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.001%
Nitrate and Nitrite (as NO_3)	max. 0.003%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02%
Zinc (Zn)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1043.0100	100 g	

Caffeine

'BAKER'

1514

▶ $\text{CH}_3\text{NCON}(\text{CH}_3)\text{COC}(\text{N}:\text{CHNCH}_3)$

M = 194.19 g/mol

CAS NO. 58-08-2

EINECS 200-362-1

NC CODE 2939 30 000

EC INDEX NO. 613 086 00 5

UN/ID NO. 1544

ADR/RID 6.1 T2

IMDG 6.1/III

H: H302

P: P264-P270-P301+P312-P330-
P501a

Warning

Assay	98.5-101.5%
Acidity	passes test
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 20 ppm
Identification	passes test
Loss on Drying	max. 0.5%
Sulfated Ash	max. 0.1%
Sulfates (as SO_4)	max. 500 ppm

Related Substances:

Chloroform (CHCl_3)	max. 0.5%
Methanol (CH_3OH)	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
1514.0500	500 g	

Calcium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5710

▶ Ca

M = 40.08 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Calcium (Ca) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5710.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within $\pm 0.2\%$. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Calcium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6925

▶ Ca

M = 40.08 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Calcium (Ca) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6925.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Calci

Calcium 1000 µg/ml

6808 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Ca

Calcium (Ca)

998-1002 µg/ml

M = 40.08 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-P332+P313-P362



Warning

PRODUCT
NO.

PACKING

CONT.
BOX

6808.0100

100 ml

Calcium Nitrate in Nitric Acid 0.5 mol/l.

Calcium 10000 µg/ml

5724 (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Ca

Calcium (Ca)

9980-10020 µg/ml

M = 40.08 g/mol

NC CODE 3822 00 000

UN/ID NO. 2031

ADR/RID 8 CO2

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT
NO.

PACKING

CONT.
BOX

5724.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Calcium Acetate. ½ H₂O

0059 'BAKER ANALYZED'

▶ (CH₃COO)₂Ca.½H₂O

Assay

98.0-101.0%

CAS NO. 62-54-4

EINECS 200-540-9

NC CODE 2915 29 000

Alkalinity

passes test

Barium (Ba)

max. 0.005%

Chloride (Cl)

max. 0.05%

Heavy Metals (as Pb)

max. 0.001%

Insoluble Matter

max. 0.005%

Iron (Fe)

max. 0.001%

Magnesium and Alkalies (as SO₄)

max. 0.3%

Nitrate (NO₃)

max. 0.003%

Sulfate (SO₄)

max. 0.05%

Titrable Acid (meq/g)

max. 0.035

PRODUCT
NO.

PACKING

CONT.
BOX

0059.0500

500 g

6

Calcium Acetate

7117 1 mol/l (1N) / 'BAKER ANALYZED'

▶ (CH₃COO)₂Ca

Titer (mol/l)

0.995-1.005

M = 158.17 g/mol

EINECS 200-540-9

NC CODE 2915 29 000

PRODUCT
NO.

PACKING

CONT.
BOX

7117.9020

20 l Polycube

Volumetric Solution, ready for use.

Calcium Carbonate

0061 Powder / 'BAKER ANALYZED' / Low in Alkalies / ACS

▶ CaCO₃

M = 100.09 g/mol

CAS NO. 471-34-1

EINECS 207-439-9

NC CODE 2836 50 000

Exceeds ACS Specifications

Assay (dried basis)

min. 99.0%

Ammonium (NH₄)

max. 0.003%

Average Particle Diameter, µm (APD) act. value reported

Barium (Ba)

max. 0.01%

Bulk Density (g/cc)

act. value reported

Chloride (Cl)

max. 0.001%

Fluoride (F)

max. 0.0015%

Heavy Metals (as Pb)

max. 0.001%

Insoluble in Dilute HCl

max. 0.01%

Iron (Fe)

max. 0.002%

Magnesium (Mg)

max. 0.01%

Potassium (K)

max. 0.01%

Sodium (Na)

max. 0.01%

Specific Surface Area, m²/g

act. value reported

Strontium (Sr)

max. 0.1%

Sulfate (SO₄)

max. 0.005%

Mesh (Wet Screen Analysis):

On U.S. No. 325 Sieve

act. value reported

PRODUCT
NO.

PACKING

CONT.
BOX

0061.0500

500 g

Calcium Carbonate

Precipitated / 'BAKER ANALYZED'

0503

▶ CaCO_3	Assay	min. 99.0%
M = 100.09 g/mol	Barium (Ba)	max. 0.005%
CAS NO. 471-34-1	Chloride (Cl)	max. 0.005%
EINECS 207-439-9	Insoluble in HCl	max. 0.01%
NC CODE 2836 50 000	Iron (Fe)	max. 0.002%
	Lead (Pb)	max. 0.0005%
	Magnesium (Mg)	max. 0.05%
	Nitrogen Compounds (as N)	max. 0.001%
	Sulfate (SO_4)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0503.1000	1 kg	

Calcium Chloride Anhydrous

Granular <6mm / 'BAKER'

0070

▶ CaCl_2	Assay	min. 95%
M = 110.99 g/mol		
CAS NO. 10043-52-4		
EINECS 233-140-8		
NC CODE 2827 20 000		
H: H319		
P: P264-P280-P305+P351+P338-P337+P313		



Warning

PRODUCT NO.	PACKING	CONT. BOX
0070.1000	1 kg	6
0070.5000	5 kg	

Calcium Chloride Dihydrate

'BAKER ANALYZED'

0504

▶ $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$	Assay	min. 99.0%
M = 147.02 g/mol	Ammonium (NH_4)	max. 0.005%
CAS NO. 10035-04-8	Barium (Ba)	max. 0.003%
EINECS 233-140-8	Insoluble in Water	max. 0.005%
NC CODE 2827 20 000	Magnesium (Mg)	max. 0.05%
EC INDEX NO. 17 013 00 2	Oxidizing Substances (as NO_3)	max. 0.003%
H: H319	pH of 5% Solution at 20°C	4.5-6.5
P: P264-P280-P305+P351+P338-P337+P313	Potassium (K)	max. 0.01%
	Sodium (Na)	max. 0.01%
	Strontium (Sr)	max. 0.05%
	Sulfate (SO_4)	max. 0.005%
	Trace Impurities (in ppm):	
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5



Warning

PRODUCT NO.	PACKING	CONT. BOX
0504.0100	100 g	
0504.1000	1 kg	6

Appearance white to light cream colored.

Calcium Chloride Dihydrate

'BAKER'

0064

▶ $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$	Assay	99.0-103.0%
M = 147.02 g/mol	Acid or alkaline reacting substances	passes test
CAS NO. 10035-04-8	Aluminium (Al)	passes test
EINECS 233-140-8	Appearance of solution	passes test
NC CODE 2827 20 000	Barium (Ba)	passes test
EC INDEX NO. 17 013 00 2	Heavy Metals (as Pb)	max. 0.001%
H: H319	Identification	passes test
P: P264-P280-P305+P351+P338-P337+P313	Iron (Fe)	max. 0.001%
	Iron, Aluminium and Phosphate	passes test
	Magnesium and Alkalies (as SO_4)	max. 0.5%
	Organic Volatile Impurities	passes test
	pH of 5% Solution at 25°C	4.5-9.2
	Sulfate (SO_4)	max. 200 ppm



Warning

PRODUCT NO.	PACKING	CONT. BOX
0064.1000	1 kg	6
0064.5000	5 kg	
0064.9050	50 kg	

Calcium Chloride

7232 0.0125 mol/l / 'BAKER ANALYZED'

▶ CaCl_2	Titer (mol/l)	0.0120-0.0130
M = 110.99 g/mol		
CAS NO. 10043-52-4		
EINECS 233-140-8		
NC CODE 2827 20 000		

PRODUCT NO.	PACKING	CONT. BOX
7232.9020	20 l Polycube	

Volumetric Solution, ready for use.

Calcium Chloride

7116 0.01 mol/l / 'BAKER ANALYZED'

▶ CaCl_2	Titer (mol/l)	0.0095-0.0105
M = 110.99 g/mol		
CAS NO. 10043-52-4		
EINECS 233-140-8		
NC CODE 2827 20 000		

PRODUCT NO.	PACKING	CONT. BOX
7116.1000	1 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Calcium Carbonate (NIST traceable reference standard).

The concentration of the solution is confirmed by titration with EDTA.

Calcium Fluoride

1046 powder / 'BAKER ANALYZED'

▶ CaF_2	Assay (by EDTA titrn.)	min. 95.0%
M = 78.08 g/mol	Chloride (Cl)	max. 0.05%
CAS NO. 7789-75-5	Heavy Metals (as Pb)	max. 0.005%
EINECS 232-188-7	Iron (Fe)	max. 0.005%
NC CODE 2826 19 000	Sulfate (SO_4)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1046.0500	500 g	

Calcium Hydroxide

1372-01 powder / 'BAKER ANALYZED' / ACS

▶ Ca(OH)_2	Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs	
M = 74.09 g/mol	Assay	min. 95.0%
CAS NO. 1305-62-0	Calcium Carbonate (CaCO_3)	max. 3.0%
EINECS 215-137-3	Chloride (Cl)	max. 0.03%
NC CODE 2825 90 190	Heavy Metals (as Pb)	max. 0.003%
H: H318	Insoluble in HCl	max. 0.03%
P: P280-P305+P351+P338-P310	Iron (Fe)	max. 0.05%
	Magnesium (Mg)	max. 0.5%
Danger	Potassium (K)	max. 0.05%
	Sodium (Na)	max. 0.05%
	Strontium (Sr)	max. 0.05%
	Sulfur Compounds (as SO_4)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1372-01	500 ml HDPE	

Also available in other packsizes.

Calcium Hydroxide

0074 Powder / 'BAKER'

▶ Ca(OH)_2	Assay	95.0-100.5%
M = 74.09 g/mol	Acid Insoluble Substances	max. 0.5%
CAS NO. 1305-62-0	Carbonate (CO_3)	passes test
EINECS 215-137-3	Heavy Metals (as Pb)	max. 20 ppm
NC CODE 2825 90 190	Identification	passes test
H: H318	Magnesium and Alkali salts	max. 4.8%
P: P280-P305+P351+P338-P310		

PRODUCT NO.	PACKING	CONT. BOX
0074.1000	1 kg	
0074.9025	25 kg	



Danger

Calcium Nitrate Tetrahydrate

'BAKER ANALYZED'

0076

▶ $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$

M = 236.15 g/mol

CAS NO. 13477-34-4

EINECS 233-332-1

NC CODE 2834 29 800

UN/ID NO. 1454

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272-H319

P: P210-P220-P221-P280-
P305+P351+P338-P501a

Danger

Assay (by EDTA titrn.)	99.0-103.0%
Barium (Ba)	max. 0.005%
Chloride (Cl)	max. 0.005%
Insoluble Matter and NH_4OH Precipitate	max. 0.005%
Magnesium and Alkali Salts (as SO_4)	max. 0.2%
pH of 5% Solution at 25°C	5.0-7.0
Sulfate (SO_4)	max. 0.002%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0076.1000	1 kg	6

Calcium Oxide

'BAKER ANALYZED'

0078

▶ CaO

M = 56.08 g/mol

CAS NO. 1305-78-8

EINECS 215-138-9

NC CODE 2825 90 190

H: H318

P: P280-P305+P351+P338-P310



Danger

Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.005%
Insoluble in CH_3COOH and NH_4OH Precipitate	max. 1.0%
Iron (Fe)	max. 0.1%
Loss on Ignition	max. 5.0%
Nitrate (NO_3)	max. 0.05%
Sulfate (SO_4)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0078.1000	1 kg	
0078.9012	12 kg	

Calcium Oxide

Powder / 'BAKER'

0154

▶ CaO

M = 56.08 g/mol

CAS NO. 1305-78-8

EINECS 215-138-9

NC CODE 2825 90 190

H: H318

P: P280-P305+P351+P338-P310



Danger

Assay	min. 90%
Carbonate	passes test
Insoluble Matter in HCl	max. 1.0%
Loss on Ignition	max. 10%
Magnesium and Alkalies	passes test

PRODUCT NO.	PACKING	CONT. BOX
0154.1000	1 kg	6

Calcium Sulfate Anhydrous

3-5mm / 'BAKER' / For drying

1702

▶ CaSO_4

M = 136.14 g/mol

CAS NO. 7778-18-9

EINECS 231-900-3

NC CODE 2833 29 900

Appearance	passes test

PRODUCT NO.	PACKING	CONT. BOX
1702.1000	1 kg	

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A
B
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X
Y
Z

Calcium Sulfate Anhydrous

1703 with indicator, 3-15mm / 'BAKER' / For drying

▶ CaSO₄

M = 136.14 g/mol

CAS NO. 7778-18-9

EINECS 231-900-3

NC CODE 2833 29 900

H: H317-H334-H341-H350i-H360-
H400-H410P: P261-P280-P281-P285-
P342+P311-P405

Danger

Appearance

passes test

PRODUCT
NO.

PACKING

CONT.
BOX

1703.1000

1 kg

Contains Cobalt Chloride.

Calcium Sulfate Dihydrate

0081 Powder / 'BAKER ANALYZED' / ACS

▶ CaSO₄·2H₂O

M = 172.17 g/mol

CAS NO. 10101-41-4

EINECS 231-900-3

NC CODE 2833 29 900

Meets ACS Specifications

Assay	98.0-102.0%
Carbonate (CO ₃)	passes test
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.002%
Insoluble in Dilute HCl	max. 0.02%
Iron (Fe)	max. 0.001%
Magnesium (Mg)	max. 0.02%
Nitrate (NO ₃)	passes test
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.02%
Strontium (Sr)	max. 0.05%

PRODUCT
NO.

PACKING

CONT.
BOX

0081.1000

1 kg

6

Capping A (ABI)

9497 'BAKER ANALYZED' / For DNA/RNA synthesis

1 l = 0.91 kg

FLASHPOINT -21 °C

NC CODE 3822 00 000

UN/ID NO. 2924

ADR/RID 3 FC

IMDG 3/II

H: H225-H318-H335+H336-H315-
EUH019P: P210-P241-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay Acetic Anhydride	9.0-11.0% (v/v)
Assay Pyridine	9.0-11.0% (v/v)
Appearance: clear, colorless solution free from visible particulates	passes test

PRODUCT
NO.

PACKING

CONT.
BOX

9497.0180

180 ml Glass

9497.0450

450 ml Glass

9497.2500

2.5 l Glass

9497.4000GL

4 l Glass

Suitable for Oligonucleotide synthesis.

Capping A (ABI)

9510 'BAKER ANALYZED' / For DNA/RNA synthesis

1 l = 0.91 kg

FLASHPOINT -21 °C

NC CODE 3822 00 000

UN/ID NO. 2924

ADR/RID 3 FC

IMDG 3/II

H: EUH019-H225-H315-H318-
H335+H336P: P210-P241-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay Acetic Anhydride	8.2-10.0% (v/v)
Appearance: clear, colorless solution free from visible particulates	passes test

PRODUCT
NO.

PACKING

CONT.
BOX

9510.0200

200 ml Glass

9510.0450

450 ml Glass

9510.2500

2.5 l Glass

9510.4000GL

4 l Glass

Suitable for Oligonucleotide synthesis.

Capping B (ABI)

'BAKER ANALYZED' / For DNA/RNA synthesis

9485

1 l = 0.91 kg
FLASHPOINT -21 °C
NC CODE 3822 00 000
UN/ID NO. 2924
ADR/RID 3 FC
IMDG 3/II
H: EUH019-H225-H314-H335+H336
P: P210-P241-P303+P361+P353-P305+P351+P338-P310-P405



Danger

Assay (1-Methylimidazole) 15.2-16.8% (v/v)
 Appearance: clear, colorless solution
 free from visible particulates passes test
 Water (H₂O) max. 120 ppm

PRODUCT NO.	PACKING	CONT. BOX
9485.0180	180 ml Glass	
9485.0450	450 ml Glass	
9485.2500	2.5 l Glass	
9485.4000GL	4 l Glass	

Suitable for Oligonucleotide synthesis.

Capping B (ABI)

'BAKER ANALYZED' / For DNA/RNA synthesis

9512

1 l = 0.91 kg
FLASHPOINT -21 °C
NC CODE 3822 00 000
UN/ID NO. 2924
ADR/RID 3 FC
IMDG 3/II
H: H225-H314-H335+H336-EUH019
P: P210-P241-P303+P361+P353-P305+P351+P338-P310-P405



Danger

Assay (1-Methylimidazole) 9.5-10.5% (v/v)
 Assay Pyridine 9.5-10.5% (v/v)
 Appearance: clear, colorless solution
 free from visible particulates passes test
 Water (H₂O) max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
9512.0200	200 ml Glass	
9512.0450	450 ml Glass	
9512.2500	2.5 l Glass	
9512.4000GL	4 l Glass	

Suitable for Oligonucleotide synthesis.

CAPS

'BAKER ULTRAPURE BIOREAGENT'

4118

► C₉H₁₉NO₃S
M = 221.32 g/mol
CAS NO. 1135-40-6
EINECS 214-492-1
NC CODE 2922 50 000
H: H302-H312
P: P264-P280-P301+P312-P312-P363-P501a



Warning

Assay min. 98.0%
 Appearance passes test
 DNase Activity none detected
 Heavy Metals (as Pb) max. 5 ppm
 Insoluble Matter max. 0.5%
 Protease Activity none detected
 RNase Activity none detected
Product Information (not specifications):
 pKa at 20°C 10.40

PRODUCT NO.	PACKING	CONT. BOX
4118.0100	100 g	
4118.1000	1 kg	

Carbamide

See Urea

Caustic Potash

See Potassium Hydroxide

Cedarwood Oil

'BAKER'

7397

1 l = 0.98 kg
NC CODE 3302 90 900

Refractive Index n_D²⁰ 1.501-1.511

PRODUCT NO.	PACKING	CONT. BOX
7397.0025	25 ml	6

For Immersion.

Celite 503

0902 'BAKER' / Analytical filter aid

EINECS	272-489-0	Appearance	passes test
NC CODE	3822 00 000		
H:	H373		
P:	P260-P314-P501a		



Warning

PRODUCT NO.	PACKING	CONT. BOX
0902.1000	1 kg	

Celite 545

3376 'BAKER ANALYZED' / Suitable for use in pesticide residue analysis after extraction with petroleum ether

CAS NO.	68855-54-9	Loss on Drying at 110°C	max. 0.2%
EINECS	272-489-0	Petroleum Ether Extractables	value on label
H:	H373	pH of 5% Slurry at 20°C	8.0-11.0
P:	P260-P314-P501a		



Warning

PRODUCT NO.	PACKING	CONT. BOX
3376.2500	2.5 kg	

Cerium(IV) Ammonium Nitrate

See Ammonium Cerium(IV) Nitrate

Cerium(IV) Sulfate

2008 'BAKER ANALYZED'

▶ $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$	Assay	min. 98%
M = 404.30 g/mol	Chloride (Cl)	max. 0.001%
CAS NO. 10294-42-5	Heavy Metals (as Pb)	max. 0.005%
EINECS 237-029-5	Insoluble in H_2SO_4	max. 0.005%
NC CODE 2846 10 000	Iron (Fe)	max. 0.005%
	Phosphate (PO_4)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
2008.1000PE	1 kg HDPE	6

Cerium(IV) Sulfate

7114 0.1 mol/l / 'BAKER ANALYZED'

▶ $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$	Titer (mol/l)	0.0997-0.1003
M = 404.30 g/mol		
CAS NO. 10294-42-5		
EINECS 237-029-5		
NC CODE 2846 10 000		
H: EUH210		

PRODUCT NO.	PACKING	CONT. BOX
7114.1000	1 l	6

Volumetric Solution, ready for use.

Cervix Fixative

3869 Cytology

NC CODE	3822 00 000
UN/ID NO.	1993
ADR/RID	3 F1
IMDG	3/II
H:	H225-H319-H336
P:	P210-P241-P261- P303+P361+P353- P305+P351+P338-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
3869.1200	125 ml HDPE x 12	

Cesium Chloride

'BAKER ULTRAPURE BIOREAGENT' / For Density Gradient Centrifugation

4042

▶ CsCl	M = 168.37 g/mol	Assay	min. 99.9%	Lead (Pb)	max. 5
	CAS NO. 7647-17-8	Absorbance of 50% (w/v) Aqueous Solution at 260 nm (1-cm path)	max. 0.02	Lithium (Li)	max. 5
	EINECS 231-600-2	DNase Activity	none detected	Magnesium (Mg)	max. 3
	NC CODE 2827 39 800	Protease Activity	none detected	Manganese (Mn)	max. 5
		RNase Activity	none detected	Potassium (K)	performance only
		Trace Impurities (in ppm):		Rubidium (Rb)	max. 10
		Aluminium (Al)	max. 10	Sodium (Na)	performance only
		Barium (Ba)	max. 5	Strontium (Sr)	max. 5
		Calcium (Ca)	max. 10	Sulfate (SO ₄)	max. 5
		Chromium (Cr)	max. 5		
		Copper (Cu)	max. 3	PRODUCT	PACKING
		Iron (Fe)	max. 2	NO.	CONT. BOX
				4042.0100	100 g

Cesium Chloride

'BAKER INSTRA-ANALYZED'

1955

▶ CsCl	M = 168.37 g/mol	Assay	min. 99.5%	Phosphorus (as P ₂ O ₅)	max. 0.5
	CAS NO. 7647-17-8	Absorbance of 50% (w/v) Aqueous Solution at 260 nm (1-cm path)	max. 0.02	Potassium (K)	max. 1
	EINECS 231-600-2	Trace Impurities (in ppm):		Rubidium (Rb)	max. 5
	NC CODE 2827 39 800	Aluminium (Al)	max. 0.1	Silicon Dioxide (SiO ₂)	max. 1
		Barium (Ba)	max. 5	Sodium (Na)	max. 0.2
		Calcium (Ca)	max. 0.3	Strontium (Sr)	max. 0.2
		Chromium (Cr)	max. 0.1	Sulfate (SO ₄)	max. 5
		Iron (Fe)	max. 0.2		
		Lithium (Li)	max. 0.5	PRODUCT	PACKING
		Magnesium (Mg)	max. 0.1	NO.	CONT. BOX
		Manganese (Mn)	max. 0.1	1955.0025	25 g Glass
				1955.0250	250 g

Cesium Chloride

'BAKER ANALYZED'

2012

▶ CsCl	M = 168.37 g/mol	Assay	min. 99.5%	PRODUCT	PACKING	CONT.
	CAS NO. 7647-17-8	Nitrogen Compounds (as N)	max. 0.001%	NO.		BOX
	EINECS 231-600-2	Trace Impurities (in ppm):		2012.0100	100 g	
	NC CODE 2827 39 800	Aluminium (Al)	max. 5			
		Heavy Metals (as Pb)	max. 5			
		Iron (Fe)	max. 3			
		Magnesium (Mg)	max. 5			
		Potassium (K)	max. 20			
		Sodium (Na)	max. 20			
		Sulfate (SO ₄)	max. 50			

Cetane

See Hexadecane

CHAPS

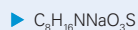
'BAKER ULTRAPURE BIOREAGENT'

4145

▶ C ₃₂ H ₅₈ N ₂ O ₇ S	M = 614.89 g/mol	Assay (by TLC)	min. 98%	PRODUCT	PACKING	CONT.
	CAS NO. 75621-03-3	Conductivity, μmhos	max. 100	NO.		BOX
	NC CODE 3822 00 000	Insoluble Matter	max. 0.2%	4145.0100	100 g	
		pH of 10% Slurry at 25°C	5.0-7.0	4145.1000	1 kg	
		Solubility	passes test			

CHES, Sodium salt

4147 'BAKER ULTRAPURE BIOREAGENT'



M = 229.27 g/mol

CAS NO. 3076-05-9

EINECS 221-352-3

NC CODE 2921 30 990

Assay (dried basis)	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Protease Activity	none detected
RNase Activity	none detected
Water (by KF, volumetric)	max. 8.0%

Product Information (not specifications):

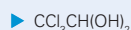
pKa at 20°C	9.30

PRODUCT NO.	PACKING	CONT. BOX

4147.0100 100 g

Chloral Hydrate

1052 'BAKER'



M = 165.40 g/mol

CAS NO. 302-17-0

EINECS 206-117-5

NC CODE 2905 59 990

EC INDEX NO. 605 014 00 6

UN/ID NO. 2811

ADR/RID 6.1 T2

IMDG 6.1/II

H: H301-H315-H319

P: P280-P301+P310-

P305+P351+P338-P362-P405-

P501a



Danger

Assay	98.5 - 101.0%
Appearance of solution	passes test
Chloral-alcoholate	passes test
Chlorides (as Cl)	max. 100 ppm
Heavy Metals (as Pb)	max. 20 ppm
Identification	passes test
Nonvolatile Residue	max. 0.1%
pH (10%; water)	3.5-5.5

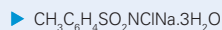
PRODUCT NO.	PACKING	CONT. BOX

1052.0500 500 g

Stored in an airtight container.

Chloramine T

1255 'BAKER ANALYZED'



M = 281.69 g/mol

CAS NO. 7080-50-4

EINECS 204-854-7

NC CODE 2935 00 900

EC INDEX NO. 616 010 00 9

UN/ID NO. 3263

ADR/RID 8 C8

IMDG 8/III

H: EUH031-H302-H314-H334

P: P260-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Assay (as Chlorine)	min. 24.5%
Insoluble in Ethanol	max. 2.0%

PRODUCT NO.	PACKING	CONT. BOX

1255.0250 250 g

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Chloroacetic Acid

'BAKER ANALYZED'

0216-01

► ClCH_2COOH **M** = 94.50 g/mol**FLASHPOINT** 126 °C**CAS NO.** 79-11-8**EINECS** 201-178-4**NC CODE** 2915 40 000**EC INDEX NO.** 607 003 00 1**UN/ID NO.** 1751**ADR/RID** 6.1 TC2**IMDG** 6.1/II**H:** H301-H311-H314-H331-H400**P:** P301+P310-P303+P361+P353-
P305+P351+P338-P310-P361-
P405-P501a

Danger

Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.01 %
Heavy Metals (as Pb)	max. 0.001 %
Insoluble Matter	max. 0.01 %
Iron (Fe)	max. 0.002 %
Residue on Ignition	max. 0.02 %
Substances Darkened by H_2SO_4	passes test
Sulfates (as SO_4)	max. 0.02 %

Carbonyl Compounds:

Acetone	max. 0.02 %
Other Carbonyl Compounds	max. 0.01 %

PRODUCT NO.	PACKING	CONT. BOX
0216-01	500 g Glass	

Chlorobenzene

'BAKER ANALYZED'

8023

► $\text{C}_6\text{H}_5\text{Cl}$ **M** = 112.56 g/mol**1 l** = 1.10 kg**FLASHPOINT** 28 °C**CAS NO.** 108-90-7**EINECS** 203-628-5**NC CODE** 2903 61 000**EC INDEX NO.** 602 033 00 1**UN/ID NO.** 1134**ADR/RID** 3 F1**IMDG** 3/III**H:** H226-H332-H411**P:** P210-P241-P261-P280-
P303+P361+P353-P501a

Warning

Assay (by GC)	min. 99%
Boiling Range	max. 1.0°C
Density (g/ml) at 25°C	1.101-1.104
Recorded Boiling Point	132°C

PRODUCT NO.	PACKING	CONT. BOX
8023.1000	1 l	6
8023.2500	2.5 l	4

Chloroform

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

9257

► CHCl_3 **M** = 119.38 g/mol**1 l** = 1.47 kg**CAS NO.** 67-66-3**EINECS** 200-663-8**NC CODE** 2903 13 000**EC INDEX NO.** 602 006 00 4**UN/ID NO.** 1888**ADR/RID** 6.1 T1**IMDG** 6.1/III**H:** H302-H315-H351-H373**P:** P260-P280-P281-P362-P405-
P501a

Warning

Assay (by GC) (corrected for water) (exclusive of preservative)	min. 99.8%
Chloride (Cl)	max. 5 ppm
Color (APHA)	max. 10
Residue after Evaporation	max. 2 ppm
Substances Darkened by H_2SO_4	passes test
Titration Acid ($\mu\text{eq/g}$)	max. 0.5
Water (by KF, coulometric)	max. 0.05%

Trace Organic Residues:

ECD-Sensitive Impurities (as Heptachlor Epoxide) Single Impurity Peak (pg/ml)	max. 10
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/ml)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
9257.1000	1 l	6
9257.4000	4 l Glass	4

Contains about 0.75% Ethanol as Preservative.

Chloroform

9174 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

▶ CHCl₃

M = 119.38 g/mol

1 l = 1.47 kg

CAS NO. 67-66-3

EINECS 200-663-8

NC CODE 2903 13 000

EC INDEX NO. 602 006 00 4

UN/ID NO. 1888

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H351-H373

P: P260-P280-P281-P362-P405-P501a



Warning

Assay (by GC) (exclusive of preservative) min. 99.8%

Preservative (as Amylene) max. 50 ppm

Water (H₂O) (by Karl Fischer titrn.) max. 0.01%**Fluorescence Trace Impurities (as quinine base), ppb:**

Measured at 450 nm max. 1.0

Measured at Emission Maximum for Solvent

Impurities max. 2.5

Physical Data (not specifications):

Density (g/ml) at 20°C 1.483

Trace Impurities:

Chloride (Cl) (in ppm) max. 10

Residue after Evaporation (in ppm) max. 5

Titrable Acid (meq/g) max. 0.0005

Ultraviolet Absorbance (1.00-cm path vs water):

at 254 nm max. 0.15

at 280 nm max. 0.05

at 350 nm max. 0.01

UV Cut-off, nm max. 245

PRODUCT NO.	PACKING	CONT. BOX
9174.1000	1 l	6
9174.2500	2.5 l	4

Stabilized with max. 50 ppm Amylene.

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Chloroform

9175 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

▶ CHCl₃

M = 119.38 g/mol

1 l = 1.47 kg

CAS NO. 67-66-3

EINECS 200-663-8

NC CODE 2903 13 000

EC INDEX NO. 602 006 00 4

UN/ID NO. 1888

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H351-H373

P: P260-P280-P281-P362-P405-P501a



Warning

Assay (by GC) (exclusive of preservative) min. 99.8%

Preservative (C₂H₅OH) (by GC) 0.5-1.0% (w/w)

Residue after Evaporation max. 2 ppm

Substances Darkened by H₂SO₄ passes test

Titrable Acid (meq/g) max. 0.0005

Water (H₂O) (by Karl Fischer titrn.) max. 0.01%**Fluorescence Trace Impurities (as quinine base), ppb:**

Measured at 450 nm max. 0.25

Measured at Emission Maximum for Solvent

Impurities max. 1.0

Physical Data (not specifications):

Density (g/ml) at 20°C 1.478

Trace Impurities (in ppm):

Chloride (Cl) max. 10

Ultraviolet Absorbance (1.00-cm path vs water):

at 254 nm max. 0.15

at 280 nm max. 0.01

at 350 nm max. 0.01

UV Cut-off, nm max. 245

PRODUCT NO.	PACKING	CONT. BOX
9175.1000	1 l	6
9175.2500	2.5 l	4

Stabilized with about 0.75% Ethanol.

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Chloroform

7018 'BAKER ANALYZED' / For Dithizon / ACS

▶ CHCl₃

M = 119.38 g/mol

1 l = 1.47 kg

CAS NO. 67-66-3

EINECS 200-663-8

NC CODE 2903 13 000

EC INDEX NO. 602 006 00 4

UN/ID NO. 1888

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H351-H373

P: P260-P280-P281-P362-P405-P501a



Warning

Exceeds ACS Specifications

Assay (by GC) min. 99.8%

Acetone and Aldehyde (as (CH₃)₂CO) max. 0.005%

Acid and Chloride passes test

Color (APHA) max. 10

Free Chlorine passes test

Preservative (C₂H₅OH) about 0.75%

Residue after Evaporation max. 0.001%

Substances Darkened by H₂SO₄ passes test

Suitability for Use in Dithizone Test passes test

Trace Impurities (in ppm):

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb)	max. 0.05
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7018.1000	1 l	6
7018.2500	2.5 l	4
7018.5000	5 l EcoTainer	
7018.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

Stabilized with about 0.75% Ethanol.

Chloroform

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

7019

▶ CHCl₃

M = 119.38 g/mol

1 l = 1.47 kg

CAS NO. 67-66-3

EINECS 200-663-8

NC CODE 2903 13 000

EC INDEX NO. 602 006 00 4

UN/ID NO. 1888

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H351-H373

P: P260-P280-P281-P362-P405-P501a



Warning

Exceeds ACS Specifications

Assay (by GC)	min. 99.8%
Acetone and Aldehyde (as (CH ₃) ₂ CO)	max. 0.001%
Acid and Chloride	passes test
Color (APHA)	max. 10
Free Chlorine	passes test
Lead (Pb)	max. 0.05 ppm
Preservative (C ₂ H ₅ OH)	about 0.75%
Residue after Evaporation	max. 5 ppm
Substances Darkened by H ₂ SO ₄	passes test
Suitability for Use in Dithizone Test	passes test
Ultraviolet Absorbance (1.00-cm path vs water):	
at 245 nm	max. 1.00
at 255 nm	max. 0.25
at 260 nm	max. 0.15
at 270 nm	max. 0.05
at 290-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7019.1000	1 l	6
7019.2500	2.5 l	4

Stabilized with about 0.75% Ethanol.

Chloroform

'BAKER ANALYZED' / For Dithizon

7386

▶ CHCl₃

M = 119.38 g/mol

1 l = 1.47 kg

CAS NO. 67-66-3

EINECS 200-663-8

NC CODE 2903 13 000

EC INDEX NO. 602 006 00 4

UN/ID NO. 1888

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H351-H373

P: P260-P280-P281-P362-P405-P501a



Warning

Assay (by GC)	min. 99%
Acetone and Aldehyde (as (CH ₃) ₂ CO)	max. 0.005%
Acid and Chloride	passes test
Color (APHA)	max. 10
Density (g/ml) at 25°C	1.467-1.474
Free Chlorine	passes test
Preservative (C ₂ H ₅ OH)	about 0.75%
Residue after Evaporation	max. 0.001%
Substances Darkened by H ₂ SO ₄	passes test

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1

Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7386.1000	1 l	6
7386.2500	2.5 l	4
7386.5000	5 l EcoTainer	
7386.9025	25 l	
7386.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.
For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with about 0.75% Ethanol.

Chloroform

'BAKER'

7152

▶ CHCl₃

M = 119.38 g/mol

1 l = 1.47 kg

CAS NO. 67-66-3

EINECS 200-663-8

NC CODE 2903 13 000

EC INDEX NO. 602 006 00 4

UN/ID NO. 1888

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H351-H373

P: P260-P280-P281-P362-P405-P501a



Warning

Assay (by GC)	min. 99%
Appearance	passes test
Color (APHA)	max. 10
Ethanol (C ₂ H ₅ OH)	0.4-1.0% (m/m)
Residue after Evaporation	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
7152.9200	200 l	

Stabilized with about 0.75% Ethanol.

N-Chloro-p-toluenesulfonamide, N-Sodium Derivate

See Chloramine T

Chloroplatinic Acid Hexahydrate

2890-03

crystal / 'BAKER ANALYZED' / ACS

▶ H₂PtCl₆·6H₂O

M = 517.92 g/mol

CAS NO. 16941-12-1

EINECS 241-010-7

NC CODE 2843 90 900

EC INDEX NO. 78 009 00 4

UN/ID NO. 2507

ADR/RID 8 C2

IMDG 8/III

H: H301-H314-H317-H334

P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay (Pt)	min. 37.50%
Alkalies and other Salts (as SO ₄)	max. 0.05%
Solubility in Alcohol	passes test
Suitability for Potassium Determination	passes test

PRODUCT NO.	PACKING	CONT. BOX

2890-03 1 g Amp.

Keep in a cool place and tightly closed.



3-(3-Cholamidopropyl)dimethylammonio-1-propanesulfonate

See CHAPS



Chromic Acid Anhydride

See Chromium(VI) Oxide

5711

Chromium 1000 µg/ml

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Cr

M = 52.00 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Chromium (Cr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX

5711.0100 100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

6926

Chromium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Cr

M = 52.00 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Chromium (Cr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX

6926.0100 100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

6809

Chromium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

▶ Cr

M = 52.00 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-
P332+P313-P362

Warning

Chromium (Cr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX

6809.0100 100 ml

Chromium Nitrate in Nitric Acid 0.5 mol/l.

Chromium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5727

► Cr

M = 52.00 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Chromium (Cr)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5727.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Chromium(III) Chloride Hexahydrate

'BAKER ANALYZED'

1055

► CrCl₃·6H₂O

M = 266.45 g/mol

CAS NO. 10060-12-5

EINECS 233-038-3

NC CODE 2827 39 800

H: H302-H312

P: P264-P280-P301+P312-P312-
P363-P501a

Warning

Assay (by Iodometry)

99.0-102.0%

Insoluble Matter

max. 0.01 %

Iron (Fe)

max. 0.01 %

pH of 5% Solution at 25°C

2.0-3.0

Sulfate (SO₄)

max. 0.01 %

PRODUCT
NO.

PACKING

CONT.
BOX

1055.0250

250 g

Chromium(VI) Oxide

crystal / 'BAKER ANALYZED' / ACS

0086

► CrO₃

M = 99.99 g/mol

CAS NO. 1333-82-0

EINECS 215-607-8

NC CODE 2819 10 000

EC INDEX NO. 24 001 00 0

UN/ID NO. 1463

ADR/RID 5.1 OC2

IMDG 5.1/II

H: H271-H301-H311-H314-H317-
H330-H334-H340-H350-H361f-
H372-H400-H410P: P221-P283-P301+P310-
P303+P361+P353-
P305+P351+P338-P310-P361-
P405-P501a

Danger

*Meets ACS Specifications. Meets Reagent**Specifications for testing USP/NF monographs*

Assay (by Iodometry)

min. 98.0%

Aluminium (Al)

max. 0.02 %

Barium (Ba)

max. 0.01 %

Chloride (Cl)

max. 0.005 %

Insoluble Matter

max. 0.01 %

Iron (Fe)

max. 0.02 %

Nitrate (NO₃)

max. 0.05 %

Sodium (Na)

max. 0.2 %

Sulfate (SO₄)

max. 0.005 %

PRODUCT
NO.

PACKING

CONT.
BOX

0086.0500

500 g

Chromotropic Acid, Disodium Salt

'BAKER ANALYZED'

1261

► (HO)₂C₁₀H₄(SO₃Na)₂·2H₂O

M = 400.30 g/mol

CAS NO. 5808-22-0

EINECS 204-972-9

NC CODE 2908 20 000

Insoluble Matter

max. 0.01 %

Suitability for Formaldehyde Determination

passes test

Water (H₂O)

about 9 %

PRODUCT
NO.

PACKING

CONT.
BOX

1261.0025

25 g Glass

Citric Acid Anhydrous

0090

'BAKER ANALYZED' / ACS

▶ $\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2$
M = 192.13 g/mol
CAS NO. 77-92-9
EINECS 201-069-1
NC CODE 2918 14 000

Meets ACS Specifications

Assay	min. 99.5%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Oxalate (C_2O_4)	passes test
Phosphate (PO_4)	max. 0.001%
Residue after Ignition	max. 0.02%
Substances Carbonizable by Hot H_2SO_4 (Tartrates, etc.)	passes test
Sulfur Compounds (as SO_4)	max. 0.002%
Trace Impurities (in ppm):	
Iron (Fe)	max. 3
Lead (Pb)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0090.1000	1 kg	6
0090.9025	25 kg	

Citric Acid Anhydrous

1995

'BAKER'

▶ $\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2$
M = 192.13 g/mol
CAS NO. 77-92-9
EINECS 201-069-1
NC CODE 2918 14 000

Assay	99.5-101.0%
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Oxalic acid	max. 350 ppm
Readily Carbonisable Substances	passes test
Sulfated Ash	max. 0.1%
Sulfur Compounds (as SO_4)	max. 150 ppm
Water (H_2O)	max. 1.0%

PRODUCT NO.	PACKING	CONT. BOX
1995.1000	1 kg	6

Citric Acid Monohydrate

0088

crystal / 'BAKER ANALYZED' / ACS

▶ $\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O}$
M = 210.14 g/mol
CAS NO. 5949-29-1
EINECS 201-069-1
NC CODE 2918 14 000

Meets ACS Specifications

Assay	99.0-102.0%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Oxalate (C_2O_4)	passes test
Phosphate (PO_4)	max. 0.001%
Residue after Ignition	max. 0.02%
Substances Carbonizable by Hot H_2SO_4 (Tartrates, etc.)	passes test
Sulfur Compounds (as SO_4)	max. 0.002%
Trace Impurities (in ppm):	
Iron (Fe)	max. 3
Lead (Pb)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0088.1000	1 kg	6
0088.5000	5 kg	4

Citric Acid Monohydrate

2064

crystal / 'BAKER'

▶ $\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O}$
M = 210.14 g/mol
CAS NO. 5949-29-1
EINECS 201-069-1
NC CODE 2918 14 000

Assay	99.5-100.5%
Arsenic (As)	max. 3 ppm
Heavy Metals	max. 0.001%
Identification	passes test
Organic Volatile Impurities	passes test
Oxalate (C_2O_4)	passes test
Readily Carbonisable Substances	passes test
Residue after Ignition	max. 0.05%
Sulfur Compounds (as SO_4)	passes test
Water (H_2O)	max. 8.8%

PRODUCT NO.	PACKING	CONT. BOX
2064.1000	1 kg	6
2064.5000	5 kg	
2064.9050	50 kg	



Cleaner for Histology

See Paraffin Cleaner



Cleaning

See Baker-Clear 12

Cleland's Reagent

'BAKER ULTRAPURE BIOREAGENT'

F780

▶ HSCH ₂ (CHOH) ₂ CH ₂ SH	Assay	min. 99.5%
M = 154.25 g/mol	Appearance	passes test
CAS NO. 27565-41-9	Melting Point	40-43°C
NC CODE 2930 90 700	Absorbance of a 0.1M Solution (1-cm path vs water):	
H: H302-H315-H319	at 260 nm	max. 0.40
P: P280-P301+P312- P305+P351+P338-P332+P313- P362-P501a	at 280 nm	max. 0.06



Warning

PRODUCT NO.	PACKING	CONT. BOX
F780.0005	5 g	
F780.0025	25 g Glass	
F780.0100	100 g	

Keep material refrigerated between 2-8°C (36-46°F).

Store under Nitrogen.

Cobalt 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5712

▶ Co	Cobalt (Co)	998-1002 µg/ml
M = 58.93 g/mol		
NC CODE 3822 00 000		
EC INDEX NO. 7 004 00 1		
H: EUH208-H315-H319-H350I- H360-H411		
P: P273-P280-P281- P305+P351+P338-P362-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
5712.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Cobalt 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6927

▶ Co	Cobalt (Co)	998-1002 µg/ml
M = 58.93 g/mol		
NC CODE 3822 00 000		
H: EUH208-H315-H319-H350I- H360-H411		
P: P273-P280-P281- P305+P351+P338-P362-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
6927.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Cobalt 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6810

▶ Co	Cobalt (Co)	998-1002 µg/ml
M = 58.93 g/mol		
NC CODE 3822 00 000		
H: EUH208-H315-H319-H350I- H360-H411		
P: P273-P280-P281- P305+P351+P338-P362-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
6810.0100	100 ml	

Cobalt Nitrate in Nitric Acid 0.5 mol/l.

Cobalt 10000 µg/ml

5728 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Co

M = 58.93 g/mol

NC CODE 3822 00 000

EC INDEX NO. 7 004 00 1

H: H272-H315-H317-H319-H351

P: P210-P220-P221-P261-

P305+P351+P338-P405



Danger

Cobalt (Co)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5728.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Cobalt Acetate Tetrahydrate

1658-04 crystal / 'BAKER ANALYZED' / ACS

▶ (CH₃COO)₂Co·4H₂O

M = 249.08 g/mol

CAS NO. 6147-53-1

EINECS 200-755-8

NC CODE 2915 23 000

H: H302-H317-H334

P: P261-P280-P285-P301+P312-

P342+P311-P501a



Danger

Exceeds ACS Specifications

Assay (by EDTA titrn.)	99.0-101.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.001%
Magnesium (Mg)	max. 0.005%
Nickel (Ni)	max. 0.1%
Nitrate (NO ₃)	max. 0.01%
pH of 5% Solution at 25°C	6.0-7.5
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.005%
Zinc (Zn)	max. 0.01%

PRODUCT
NO.

PACKING

CONT.
BOX

1658-04

125 g Glass

Cobalt Chloride Hexahydrate

1059 'BAKER ANALYZED' / ACS

▶ CoCl₂·6H₂O

M = 237.93 g/mol

CAS NO. 7791-13-1

EINECS 231-589-4

NC CODE 2827 34 000

EC INDEX NO. 27 004 00 5

UN/ID NO. 3288

ADR/RID 6.1 T5

IMDG 6.1/III

H: H302-H317-H334-H350-

H400-H410

P: P261-P280-P281-P285-P405-

P501a



Danger

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay (by EDTA titrn.)	98.0-102.0%
Calcium (Ca)	max. 0.005%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
Lead (Pb)	max. 0.002%
Magnesium (Mg)	max. 0.005%
Nickel (Ni)	max. 0.1%
Nitrate (NO ₃)	max. 0.01%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.01%
Zinc (Zn)	max. 0.02%

PRODUCT
NO.

PACKING

CONT.
BOX

1059.0100

100 g

1059.0250

250 g

6

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Cobalt Nitrate Hexahydrate

'BAKER ANALYZED' / ACS

0091

▶ $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$

M = 291.04 g/mol

CAS NO. 10026-22-9

EINECS 233-402-1

NC CODE 2834 29 800

UN/ID NO. 1477

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272-H302-H317-H351

P: P210-P220-P221-P261-P405-

P501a



Danger

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay (by EDTA titrm.)	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.002%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.002%
Magnesium (Mg)	max. 0.005%
Nickel (Ni)	max. 0.15%
pH of 5% Solution at 25°C	3.0-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO_4)	max. 0.005%
Zinc (Zn)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0091.0500	500 g	

COOMASSIE Brilliant Blue G-250

'BAKER'

1473

▶ $\text{C}_{47}\text{H}_{50}\text{N}_3\text{NaO}_7\text{S}_2$

M = 854.03 g/mol

CAS NO. 6104-58-1

EINECS 228-058-4

NC CODE 3204 12 000

Identification (by IR)

passes test

PRODUCT NO.	PACKING	CONT. BOX
1473.0025	25 g Glass	

C.I.42655.

COOMASSIE Brilliant Blue R-250

'BAKER'

1474

▶ $\text{C}_{45}\text{H}_{44}\text{N}_3\text{NaO}_7\text{S}_2$

M = 825.98 g/mol

CAS NO. 6104-59-2

EINECS 228-060-5

NC CODE 3204 12 000

PRODUCT NO.	PACKING	CONT. BOX
1474.0005	5 g	

C.I. 42660.

Copper

Wire 0.50 mm Ø / 'BAKER ANALYZED' / ACS

9504

▶ Cu

M = 63.55 g/mol

CAS NO. 7440-50-8

EINECS 231-159-6

NC CODE 7408 19 900

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay	min. 99.90%
Antimony and Tin (as Sn)	max. 0.005%
Insoluble in diluted HNO_3	max. 0.02%
Iron (Fe)	max. 0.005%
Lead (Pb)	max. 0.005%
Manganese (Mn)	max. 0.001%
Phosphorus (P)	max. 0.001%
Silver (Ag)	max. 0.002%

Trace Impurities (in ppm):

Arsenic (As)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9504.0500	500 g	

Copper

Powder / Purified

1728

▶ Cu

M = 63.55 g/mol

CAS NO. 7440-50-8

EINECS 231-159-6

NC CODE 7408 19 900

Assay (Cu)	min. 99.0%
Insoluble Matter in HNO_3	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1728.0500	500 g	

Coppe

Copper 1000 µg/ml

5713 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Cu

Copper (Cu)

998-1002 µg/ml

M = 63.55 g/mol

NC CODE 3822 00 000

H: H315-H319-H412

P: P273-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
5713.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Copper 1000 µg/ml

6928 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Cu

Copper (Cu)

998-1002 µg/ml

M = 63.55 g/mol

NC CODE 3822 00 000

H: H315-H319-H412

P: P273-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
6928.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Copper 1000 µg/ml

6811 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Cu

Copper (Cu)

998-1002 µg/ml

M = 63.55 g/mol

NC CODE 3822 00 000

H: H315-H412

P: P264-P273-P280-P302+P352-
P332+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
6811.0100	100 ml	

Copper(II)nitrate in Nitric Acid 0.5 mol/l.

Copper 10000 µg/ml

5729 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Cu

Copper (Cu)

9980-10020 µg/ml

M = 63.55 g/mol

NC CODE 3822 00 000

H: H272-H315-H319-H411

P: P210-P220-P221-P280-
P305+P351+P338-P362

Danger

PRODUCT NO.	PACKING	CONT. BOX
5729.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

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PERFORMANCE MATERIALS

Copper(II) Acetate Monohydrate

crystal / 'BAKER ANALYZED' / ACS

1766-01

▶ (CH₃COO)₂Cu·H₂O

M = 199.65 g/mol

CAS NO. 6046-93-1

EINECS 205-553-3

NC CODE 2915 29 000

UN/ID NO. 3077

ADR/RID 9 M7

H: H302-H318-H400-H410

P: P273-P280-P301+P312-P305+P351+P338-P310-P501a



Danger

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.003%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Nickel (Ni)	max. 0.01%
pH of 5% Solution at 25°C	5.0-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
1766-01	500 g HDPE	4

Copper(II) Acetate Monohydrate

'BAKER ANALYZED' / ACS

0095

▶ (CH₃COO)₂Cu·H₂O

M = 199.65 g/mol

CAS NO. 6046-93-1

EINECS 205-553-3

NC CODE 2915 29 000

UN/ID NO. 3077

ADR/RID 9 M7

H: H302-H318-H400-H410

P: P273-P280-P301+P312-P305+P351+P338-P310-P501a



Danger

Exceeds ACS Specifications

Assay (by Iodometry)	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.003%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Nickel (Ni)	max. 0.01%
pH of 5% Solution at 25°C	5.0-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0095.0250	250 g	

Copper(II) Bromide

crystal / 'BAKER ANALYZED'

1067

▶ CuBr₂

M = 223.35 g/mol

CAS NO. 7789-45-9

EINECS 232-167-2

NC CODE 2827 59 000

UN/ID NO. 1759

ADR/RID 8 C10

IMDG 8/III

H: H302-H314-H400-H410

P: P260-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Assay	min 98%
Chloride (Cl)	max. 0.3%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
pH of 5% Solution at 25°C	2.5-4.5
Sulfate (SO ₄)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1067.0500	500 g	



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Copper(I) Chloride

0108 powder / 'BAKER ANALYZED' / ACS

▶ CuCl

M = 99.00 g/mol

CAS NO. 7758-89-6

EINECS 231-842-9

NC CODE 2827 39 900

EC INDEX NO. 29 001 00 4

UN/ID NO. 2802

ADR/RID 8 C2

IMDG 8/III

H: H302-H400-H410

P: P264-P270-P273-P301+P312-P330-P501a



Warning

Meets ACS Specifications

Assay (CuCl)	min. 90.0%
Calcium (Ca)	max. 0.01%
Insoluble in Acid	max. 0.02%
Iron (Fe)	max. 0.005%
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0108.0500	500 g	

Copper(II) Chloride Dihydrate

0097 'BAKER ANALYZED'

▶ CuCl₂·2H₂O

M = 170.48 g/mol

CAS NO. 10125-13-0

EINECS 231-210-2

NC CODE 2827 39 800

UN/ID NO. 2802

ADR/RID 8 C2

IMDG 8/III

H: H301-H315-H319-H400-H410

P: P280-P301+P310-P305+P351+P338-P362-P405-P501a



Danger

Assay	99.0-101.0%
Calcium (Ca)	max. 0.005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
Nickel (Ni)	max. 0.01%
Nitrate (NO ₃)	max. 0.005%
pH of 5% Solution at 25°C	2.0-4.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02%
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0097.0250	250 g	

Copper(II) Chloride Dihydrate

0515 'BAKER'

▶ CuCl₂·2H₂O

M = 170.48 g/mol

CAS NO. 10125-13-0

EINECS 231-210-2

NC CODE 2827 39 800

UN/ID NO. 2802

ADR/RID 8 C2

IMDG 8/III

H: H301-H315-H319-H400-H410

P: P280-P301+P310-P305+P351+P338-P362-P405-P501a



Danger

Assay	min. 95%
Insoluble Matter	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
0515.1000	1 kg	

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Copper(II) Nitrate 2.5-Hydrate

'BAKER ANALYZED' / ACS

0099

► $\text{Cu}(\text{NO}_3)_2 \cdot 2.5\text{H}_2\text{O}$

M = 232.59 g/mol

CAS NO. 3251-23-8

EINECS 221-838-5

NC CODE 2834 29 300

UN/ID NO. 1477

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272-H302-H315-H319-H400-H410

P: P210-P220-P221-P280-P305+P351+P338-P501a



Danger

Exceeds ACS Specifications

Assay	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
Lead (Pb)	max. 0.001%
Nickel (Ni)	max. 0.01%
pH of 5% Solution at 25°C	3.0-4.0
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.01%
Sulfate (SO_4)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0099.0250	250 g	

Copper(I) Oxide

powder / 'BAKER ANALYZED'

1878-01

► Cu_2O

M = 143.09 g/mol

CAS NO. 1317-39-1

EINECS 215-270-7

NC CODE 2825 50 000

EC INDEX NO. 29 002 00 0

H: H302-H400-H410

P: P264-P270-P273-P301+P312-P330-P501a



Warning

Assay	min. 96.0%
Chloride (Cl)	max. 0.5%
Free Copper (Cu)	act. value reported
Insoluble in HNO_3	max. 0.3%
Iron (Fe)	max. 0.05%
Preservative (Zinc Stearate)	0.2-0.5%
Sulfate (SO_4)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1878-01	500 g HDPE	

Copper(II) Oxide

powder / 'BAKER ANALYZED' / ACS

0101

► CuO

M = 79.55 g/mol

CAS NO. 1317-38-0

EINECS 215-269-1

NC CODE 2825 50 000

H: H302

P: P264-P270-P301+P312-P330-P501a



Warning

Exceeds ACS Specifications

Assay	min. 99.0%
Average Particle Diameter, μm (APD)	act. value reported
Bulk Density (g/cc)	act. value reported
Calcium (Ca)	max. 0.01%
Carbon Compounds (as C)	max. 0.01%
Chloride (Cl)	max. 0.005%
Free Alkali	passes test
Insoluble in Dilute HCl	max. 0.02%
Iron (Fe)	max. 0.05%
Lead (Pb)	max. 1 ppm
Nitrogen Compounds (as N)	max. 0.002%

Potassium (K)	max. 0.02%
Silicon (Si)	act. value reported
Sodium (Na)	max. 0.05%
Specific Surface Area, m^2/g	act. value reported
Sulfate (SO_4)	max. 0.02%
Mesh (Wet Screen Analysis):	
On U.S. No. 325 Sieve	act. value reported

PRODUCT NO.	PACKING	CONT. BOX
0101.0500	500 g	



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0107

Copper(II) Sulfate Anhydrous
'BAKER ANALYZED'▶ CuSO₄

M = 159.61 g/mol

CAS NO. 7758-98-7

EINECS 231-847-6

NC CODE 2833 25 000

EC INDEX NO. 29 004 00 0

UN/ID NO. 3077

ADR/RID 9 M7

IMDG 9/III

H: H302-H315-H319-H400-H410

P: P273-P280-P301+P312-
P305+P351+P338-P362-P501a

Warning

Assay (by Iodometry) min. 99.0%

Ammonium Sulfide Metals, other than Iron
(as Ni) max. 0.01%

Chloride (Cl) max. 0.002%

Insoluble Matter max. 0.01%

Iron (Fe) max. 0.005%

pH of 5% Solution at 25°C 3.0-5.0

PRODUCT NO.	PACKING	CONT. BOX
0107.1000	1 kg	

0104

Copper(II) Sulfate Pentahydrate
Fine Crystals / 'BAKER ANALYZED' / ACS▶ CuSO₄·5H₂O

M = 249.68 g/mol

CAS NO. 7758-99-8

EINECS 231-847-6

NC CODE 2833 25 000

EC INDEX NO. 29 004 00 0

UN/ID NO. 3077

ADR/RID 9 M7

IMDG 9/III

H: H302-H310-H315-H319-
H400-H410P: P280-P305+P351+P338-P310-
P361-P405-P501a

Danger

Exceeds ACS Specifications

Assay 98.0-102.0%

Calcium (Ca) max. 0.005%

Chloride (Cl) max. 0.001%

Insoluble Matter max. 0.005%

Iron (Fe) max. 0.003%

Nickel (Ni) max. 0.005%

Nitrogen Compounds (as N) max. 0.001%

Potassium (K) max. 0.01%

Sodium (Na) max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0104.0250	250 g	6
0104.1000	1 kg	6
0104.9050	50 kg	

0105

Copper(II) Sulfate Pentahydrate
'BAKER'▶ CuSO₄·5H₂O

M = 249.68 g/mol

CAS NO. 7758-99-8

EINECS 231-847-6

NC CODE 2833 25 000

EC INDEX NO. 29 004 00 0

UN/ID NO. 3077

ADR/RID 9 M7

IMDG 9/III

H: H302-H310-H315-H319-
H400-H410P: P280-P305+P351+P338-P310-
P361-P405-P501a

Danger

Assay 98.5-100.5%

PRODUCT NO.	PACKING	CONT. BOX
0105.1000	1 kg	6
0105.5000	5 kg	
0105.9050	50 kg	

7251

Copper(II) Sulfate
0.1 mol/l / 'BAKER ANALYZED'▶ CuSO₄

M = 159.61 g/mol

NC CODE 2833 25 000

H: H412

P: P273-P501a

Titer (mol/l) 0.0995-0.1005

PRODUCT NO.	PACKING	CONT. BOX
7251.1000	1 l	6

o-Cresol
'BAKER'

7085

▶ $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$
M = 108.14 g/mol
FLASHPOINT 81 °C
CAS NO. 95-48-7
EINECS 202-423-8
NC CODE 2907 12 000
EC INDEX NO. 604 004 00 9
UN/ID NO. 2076
ADR/RID 6.1 TC2
IMDG 6.1/II
H: H301-H311-H314
P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-P361-
P405-P501a



Danger

Assay (by GC) min. 98%
Boiling Point 189-191°C
Freezing Point 29-31°C

PRODUCT NO.	PACKING	CONT. BOX
7085.1000	1 l	

Crystal Violet
'BAKER ANALYZED'

1065

▶ $[(\text{CH}_3)_2\text{NC}_6\text{H}_4]_2\text{C}:\text{C}_6\text{H}_4:\text{N}(\text{CH}_3)_2\text{Cl}$
M = 408.00 g/mol
CAS NO. 548-62-9
EINECS 208-953-6
NC CODE 3204 13 000
UN/ID NO. 3077
ADR/RID 9 M7
IMDG 3077/III
H: H302-H318-H351-H400-H410
P: P280-P281-P305+P351+P338-
P310-P405-P501a



Danger

Assay (dried basis) min. 90%
Adsorbance passes test
Insoluble Matter passes test
Loss on Drying max. 4%
Sensitivity passes test

Visual Transition Interval:

pH (green) 0.8
pH (violet) 2.6

PRODUCT NO.	PACKING	CONT. BOX
1065.0025	25 g Glass	

C.I. 42555.

Cyclohexane

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

9258

▶ $\text{CH}_2(\text{CH}_2)_4\text{CH}_2$
M = 84.16 g/mol
1 l = 0.78 kg
FLASHPOINT -18 °C
CAS NO. 110-82-7
EINECS 203-806-2
NC CODE 2902 11 000
EC INDEX NO. 601 017 00 1
UN/ID NO. 1145
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-
H400-H410
P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a



Danger

Assay (by GC) (corrected for water) min. 99.0%
Color (APHA) max. 10
Residue after Evaporation max. 2 ppm
Substances Darkened by H_2SO_4 passes test
Water (by KF, coulometric) max. 100 ppm

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml) max. 10

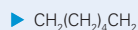
FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml) max. 10

PRODUCT NO.	PACKING	CONT. BOX
9258.1000	1 l	6

Cyclohexane

9292 'BAKER HPLC ANALYZED' / For Use in Liquid Chromatography and Spectrophotometry



M = 84.16 g/mol

1 l = 0.78 kg

FLASHPOINT -18 °C

CAS NO. 110-82-7

EINECS 203-806-2

NC CODE 2902 11 000

EC INDEX NO. 601 017 00 1

UN/ID NO. 1145

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H400-H410P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Assay (by GC) (corrected for water)	min. 99.5%
Residue after Evaporation	max. 2 ppm
Substances Darkened by H ₂ SO ₄	passes test
Water (by KF, coulometric)	max. 0.01%

Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm	max. 0.5
Measured at Emission Maximum	max. 1.0

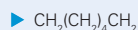
Ultraviolet Absorbance (1.00-cm path vs water):

at 220 nm	max. 0.30
at 230 nm	max. 0.20
at 240 nm	max. 0.08
at 254-400 nm	max. 0.01
UV Cut-off, nm	max. 205

PRODUCT NO.	PACKING	CONT. BOX
9292.4000	4 l Glass	4

Cyclohexane

8026 'BAKER ANALYZED' / ACS



M = 84.16 g/mol

1 l = 0.78 kg

FLASHPOINT -18 °C

CAS NO. 110-82-7

EINECS 203-806-2

NC CODE 2902 11 000

EC INDEX NO. 601 017 00 1

UN/ID NO. 1145

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H400-H410P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Exceeds ACS Specifications

Assay (by GC)	min. 99.0%
Benzene (C ₆ H ₆)	max. 0.005%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.002%
Substances Darkened by H ₂ SO ₄	passes test
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.02%

Trace Impurities (in ppm):

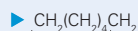
Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1

Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8026.1000	1 l	6
8026.2500	2.5 l	4
8026.9200	200 l	

Cyclohexane

8706 'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS



M = 84.16 g/mol

1 l = 0.78 kg

FLASHPOINT -18 °C

CAS NO. 110-82-7

EINECS 203-806-2

NC CODE 2902 11 000

EC INDEX NO. 601 017 00 1

UN/ID NO. 1145

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H400-H410P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Meets ACS Specifications

Assay (by GC)	min. 99.0%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.002%
Substances Darkened by H ₂ SO ₄	passes test
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.02%

Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm	max. 1.00
at 220 nm	max. 0.50
at 230 nm	max. 0.20
at 240 nm	max. 0.08
at 250 nm	max. 0.03
at 260 nm	max. 0.02
at 300-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8706.1000	1 l	
8706.2500	2.5 l	

Cyclohexane 'BAKER'

8104



M = 84.16 g/mol

1 l = 0.78 kg

FLASHPOINT -18 °C

CAS NO. 110-82-7

EINECS 203-806-2

NC CODE 2902 11 000

EC INDEX NO. 601 017 00 1

UN/ID NO. 1145

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H400-H410

P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Assay (by GC)	min. 99%
Residue after Evaporation	max. 0.005%
Water (H ₂ O)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
8104.1000	1 l	6
8104.2500	2.5 l	4
8104.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

3-(Cyclohexylamino)-1-propanesulfonic Acid

See CAPS

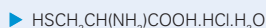
2-(Cyclohexylamino)ethanesulfonic Acid, Sodium Salt

See CHES, Sodium salt

L(+)-Cysteinium Chloride Monohydrate

'BAKER ANALYZED' Biochemical

1576



M = 175.64 g/mol

CAS NO. 52-89-1

EINECS 200-157-7

NC CODE 2930 90 160

Assay	98.5-101.0%
Ammonium (NH ₄)	max. 0.02%
Appearance	passes test
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Iron (Fe)	max. 0.002%
Loss on Drying	8.0-12.0%
Ninhydrin-positive Substances	max. 0.5%
Specific rotation	+5.5° to +7.0°
Sulfate (SO ₄)	max. 0.03%
Sulfated Ash	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1576.0100	100 g	
1576.1000	1 kg	

DCYTA

See Diaminocyclohexane-N,N,N',N'-tetraAcetic Acid

Deblock-DCA (ABI)

'BAKER ANALYZED' / For DNA/RNA synthesis

9518

1 l = 1.34 kg

NC CODE 3822 00 000

UN/ID NO. 2927

ADR/RID 6.1 TC1

IMDG 6.1/II

H: H315-H351

P: P280-P281-P308+P313-P332+P313-P362-P405



Warning

Assay (DichloroAcetic Acid)	2.90-3.10% (w/v)
Appearance: clear, colorless solution free from visible particulates	passes test
Water (H ₂ O)	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
9518.2500	2.5 l Glass	
9518.4000	4 l Glass	

Suitable for Oligonucleotide synthesis.

Deblock-TCA (ABI)

9448 'BAKER ANALYZED' / For DNA/RNA synthesis

1 l =	1.34 kg	Assay (Trichloroacetic Acid)	2.90-3.10% (w/v)
NC CODE	3822 00 000	Appearance: clear, colorless solution	
UN/ID NO.	2927	free from visible particulates	passes test
ADR/RID	6.1 TC1	Water (H ₂ O)	max. 150 ppm
IMDG	6.1/II		
H:	H315-H335+H336-H351-H412		
P:	P261-P280-P281-P304+P340-P362-P405		



Warning

PRODUCT NO.	PACKING	CONT. BOX
9448.0450	450 ml Glass	
9448.2000	2 l Glass	
9448.2500GL	2.5 l Glass	

Suitable for Oligonucleotide synthesis.

Deblock-TCA (ABI)

9451 'BAKER ANALYZED' / For DNA/RNA synthesis

1 l =	1.34 kg	Assay (Trichloroacetic Acid)	2.90-3.10% (w/v)
NC CODE	3822 00 000	Appearance: clear, colorless solution	
UN/ID NO.	2927	free from visible particulates	passes test
ADR/RID	6.1 TC1	Water (H ₂ O)	max. 150 ppm
IMDG	6.1/II		
H:	H315-H335+H336-H351-H412		
P:	P261-P280-P281-P304+P340-P362-P405		



Warning

PRODUCT NO.	PACKING	CONT. BOX
9451.0180	180 ml Glass	

Suitable for Oligonucleotide synthesis.

Deblock-TCA-DCE (ABI)

9449 'BAKER ANALYZED' / For DNA/RNA synthesis

1 l =	1.25 kg	Assay (Trichloroacetic Acid)	2.90-3.10%
FLASHPOINT	13 °C	Appearance: clear, colorless solution	
NC CODE	3822 00 000	free from visible particulates	passes test
UN/ID NO.	2924	Water (H ₂ O)	max. 150 ppm
ADR/RID	3 FC		
IMDG	3/II		
H:	H225-H302-H315-H319-H335-H350-H412		
P:	P210-P241-P261-P303+P361+P353-P305+P351+P338-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
9449.2500	2.5 l	
9449.4000GL	4 l Glass	

Suitable for Oligonucleotide synthesis.

Decalcifier, rapid

3930 HISTO GRADE

NC CODE	3822 00 000
UN/ID NO.	3264
ADR/RID	8 C1
IMDG	8/II
H:	EUH210-H314
P:	P260-P280-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
3930.2500	2.5 l HDPE	

Ready to use for Histo-Pathology applications.

Rapid Decalcifier contains an acid mixture.

Devarda's Alloy

Granular, 20 Mesh (0.84 mm) and finer / 'BAKER ANALYZED'

0112

NC CODE 7403 29 000

Aluminium (Al)	44 - 46%
Copper (Cu)	49 - 51%
Nitrogen (N)	max. 0.005%
Zinc (Zn)	4-6%
Mesh:	
On US No. 20 Sieve	max. 2.0%

PRODUCT NO.	PACKING	CONT. BOX
0112.0500	500 g	

Dextrose, Anhydrous

ULTREX Ultrapure Reagent

4893

▶ $\text{HOCH}_2\text{CH}(\text{CHOH})_4\text{O}$
M = 180.16 g/mol
CAS NO. 50-99-7
EINECS 200-075-1
NC CODE 1702 30 510

Actual Analysis Lot. No. J21471

Ash (sulfated)	0.03%
Loss on Drying at 105°C	0.01%
Particulate Matter	<0.0001%
Specific Rotation $[\alpha]_D^{25}$ (c=10 in water)	52.6 °
Starch	passes test
Titration Acid (μeq/g)	1

Metallic Impurities in parts per million (μg/g):

Aluminium (Al)	< 0.01
Cadmium (Cd)	< 0.1
Calcium (Ca)	< 0.05
Chromium (Cr)	< 0.03
Cobalt (Co)	< 0.01
Copper (Cu)	< 0.005
Iron (Fe)	< 0.01
Lead (Pb)	< 0.02
Magnesium (Mg)	< 0.005
Manganese (Mn)	< 0.005
Molybdenum (Mo)	< 0.01

Nickel (Ni)	< 0.01
Silver (Ag)	< 0.005
Sodium (Na)	< 0.4
Tin (Sn)	< 0.05
Titanium (Ti)	< 0.01
Vanadium (V)	< 0.01
Zinc (Zn)	< 0.1

Non-Metallic Impurities in parts per million (μg/g):

Arsenic (As)	< 1
Boron (B)	< 0.05
Chloride (Cl)	< 2
Nitrogen Compounds (as N)	4
Silicon (Si)	< 0.05
Sulfate and Sulfite (as SO_4)	< 5

PRODUCT NO.	PACKING	CONT. BOX
4893.0100	100 g Glass	

trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraacetic Acid

'BAKER ANALYZED'

1269

▶ $(\text{HOOCCH}_2)_2\text{NCH}(\text{CH}_2)_4\text{CHN}(\text{CH}_2\text{COOH})_2\cdot\text{H}_2\text{O}$
M = 364.36 g/mol
CAS NO. 13291-61-7
EINECS 236-308-9
NC CODE 2922 49 950

Assay	min. 99%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.1%
Sulfate (SO_4)	max. 0.01%
Water (H_2O)	4.8-5.6%

PRODUCT NO.	PACKING	CONT. BOX
1269.0025	25 g Glass	

1,2-Diaminoethane

See Ethylenediamine

2,7-Diamino-10-ethyl-9-phenyl-phenanthridinium Bromide

See Ethidium Bromide

Diammonium Hydrogen Citrate

See Ammonium Hydrogen Citrate

Diammonium Hydrogen Phosphate

See Ammonium Hydrogen Phosphate

Diamond Fuchsin

'BAKER ANALYZED'

0619

▶ $(\text{CH}_3)(\text{NH}_2)\text{C}_6\text{H}_3(\text{C}_6\text{H}_4\text{NH}_2):\text{C}_6\text{H}_4:\text{NH}_2\cdot\text{HCl}$
M = 337.86 g/mol
CAS NO. 632-99-5
EINECS 211-189-6
NC CODE 2925 20 000

Insoluble Matter	passes test
Visual Transition Interval:	
pH 1.0	purple
pH 3.1	red

PRODUCT NO.	PACKING	CONT. BOX
0619.0025	25 g Glass	6

C.I.42510.

1,3-Diazole

See Imidazole

5',5-Dibromo-o-cresolsulfonphthalein

See Bromocresol Purple

▶ **3',3'-Dibromothymolsulfonphthalein**

See Bromothymol Blue

9233

o-Dichlorobenzene

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

**M** = 147.00 g/mol**1 l** = 1.30 kg**FLASHPOINT** 66 °C**CAS NO.** 95-50-1**EINECS** 202-425-9**NC CODE** 2903 61 000**EC INDEX NO.** 602 034 00 7**UN/ID NO.** 1591**ADR/RID** 6.1 T1**IMDG** 6.1/III**H:** H302-H315-H319-H335-

H400-H410

P: P261-P280-P305+P351+P338-

P362-P405-P501a



Warning

Assay (by GC) (corrected for water) min. 98.5%

Residue after Evaporation max. 8 ppm

Water (H₂O) (by Karl Fischer titrn.) max. 0.02%**Ultraviolet Absorbance (1.00-cm path vs water):**

at 300 nm max. 0.30

at 305 nm max. 0.10

at 335 nm max. 0.05

at 375 nm max. 0.01

UV Cut-off, nm max. 296

PRODUCT NO.	PACKING	CONT. BOX
9233.1000	1 l	

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

7025

o-Dichlorobenzene

'BAKER ANALYZED'

**M** = 147.00 g/mol**1 l** = 1.30 kg**FLASHPOINT** 66 °C**CAS NO.** 95-50-1**EINECS** 202-425-9**NC CODE** 2903 61 000**EC INDEX NO.** 602 034 00 7**UN/ID NO.** 1591**ADR/RID** 6.1 T1**IMDG** 6.1/III**H:** H302-H315-H319-H335-

H400-H410

P: P261-P280-P305+P351+P338-

P362-P405-P501a



Warning

Assay (by GC) min. 99%

Acidity (as HCl) max. 0.005%

Boiling Range 179.5-181.5°C

Density (g/ml) at 25°C 1.299-1.302

Residue after Evaporation max. 0.005%

Water (H₂O) max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
7025.1000	1 l	

7227

o-Dichlorobenzene-Phenol Mix

1:1 / 'BAKER ANALYZED' / For the viscosity determination of plastics, DIN 53728

1 l = 1.18 kg**FLASHPOINT** 79 °C**NC CODE** 3822 00 000**UN/ID NO.** 2810**ADR/RID** 6.1 T1**IMDG** 6.1/II**H:** H302-H311-H314-H330-H335-

H341-H373-H400-H410

P: P260-P303+P361+P353-

P305+P351+P338-P310-

P361-P405



Danger

Color (APHA) max. 200

Water (H₂O) max. 300 ppm

PRODUCT NO.	PACKING	CONT. BOX
7227.2500	2.5 l	

Volumetric Solution, ready for use.

1,2-Dichloroethane

PHOTREX Reagent / For Spectrophotometry / ACS

8707

► $\text{CICH}_2\text{CH}_2\text{Cl}$ **M** = 98.96 g/mol**1 l** = 1.25 kg**FLASHPOINT** 13 °C**CAS NO.** 107-06-2**EINECS** 203-458-1**NC CODE** 2903 15 000**EC INDEX NO.** 602 012 00 7**UN/ID NO.** 1184**ADR/RID** 3 FT1**IMDG** 3/II**H:** H225-H302-H315-H319-
H335-H350**P:** P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Meets ACS Specifications

Assay (by GC) (corrected for water)	min. 99.0%
Appearance	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.0005%
Titration Acid (meq/g)	max. 0.0003
Water (H_2O) (by Karl Fischer titrn.)	max. 0.03%

Physical Data (not specifications):

Boiling Point (typical)	83.5°C
Density (g/ml) at 25°C (typical)	1.246

Ultraviolet Absorbance (1.00-cm path vs water):

at 228 nm	max. 1.00
at 230 nm	max. 0.50
at 235 nm	max. 0.20
at 240 nm	max. 0.10
at 245 nm	max. 0.05
at 250 nm	max. 0.02
at 255 nm	max. 0.01
at 400 nm	max. 0.01

Windows of Infrared Transmittance (0.1-mm path, 50-100% T), μm :

11.6-12.7	passes test
2.5-3.3	passes test
3.4-6.7	passes test
7.2-7.4	passes test
8.3-9.6	passes test
9.8-10.4	passes test

PRODUCT NO.	PACKING	CONT. BOX
8707.0500	500 ml	

1,2-Dichloroethane

'BAKER ANALYZED' / ACS

8042

► $\text{CICH}_2\text{CH}_2\text{Cl}$ **M** = 98.96 g/mol**1 l** = 1.25 kg**FLASHPOINT** 13 °C**CAS NO.** 107-06-2**EINECS** 203-458-1**NC CODE** 2903 15 000**EC INDEX NO.** 602 012 00 7**UN/ID NO.** 1184**ADR/RID** 3 FT1**IMDG** 3/II**H:** H225-H302-H315-H319-
H335-H350**P:** P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Meets ACS Specifications

Assay (by GC) (corrected for water)	min. 99.0%
Appearance	clear
Color (APHA)	max. 10
Residue after Evaporation	max. 0.002%
Titration Acid (meq/g)	max. 0.0003
Water (H_2O)	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
8042.1000	1 l	6
8042.2500	2.5 l	4

Dichloromethane

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

9264

► CH_2Cl_2 **M** = 84.93 g/mol**1 l** = 1.32 kg**CAS NO.** 75-09-2**EINECS** 200-838-9**NC CODE** 2903 12 000**EC INDEX NO.** 602 004 00 3**UN/ID NO.** 1593**ADR/RID** 6.1 T1**IMDG** 6.1/III**H:** H351**P:** P201-P202-P281-P308+P313-
P405-P501a

Warning

Assay (by GC) (exclusive of preservative)	min. 99.8%
Chloride (Cl)	max. 10 ppm
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Titration Acid (meq/g)	max. 0.0003
Water (H_2O) (by Coulometry)	max. 0.02%

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml)	max. 10

FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9264.1000	1 l	6
9264.2500	2.5 l	4

Dichloromethane

9315 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

▶ CH₂Cl₂

M = 84.93 g/mol

1 l = 1.32 kg

CAS NO. 75-09-2

EINECS 200-838-9

NC CODE 2903 12 000

EC INDEX NO. 602 004 00 3

UN/ID NO. 1593

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351

P: P201-P202-P281-P308+P313-P405-P501a



Warning

Assay (by GC) min. 99.8%

Chloride (Cl) max. 10 ppm

Density (g/ml) at 25°C 1.315-1.321

Preservative (Amylene) (ppm) about 20

Residue after Evaporation (in ppm) max. 2

Titration Acid (meq/g) max. 0.0003

Water (H₂O) (by Karl Fischer titrm.) max. 0.02%**Ultraviolet Absorbance (1.00-cm path vs water):**

at 254 nm max. 0.01

at 280 nm max. 0.01

at 350 nm max. 0.01

UV Cut-off, nm max. 233

PRODUCT NO.	PACKING	CONT. BOX
9315.1000	1 l	6
9315.2500	2.5 l	4

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Dichloromethane

9295 BakerDRY / Low Water Solvent / ACS

▶ CH₂Cl₂

M = 84.93 g/mol

1 l = 1.32 kg

CAS NO. 75-09-2

EINECS 200-838-9

NC CODE 2903 12 000

EC INDEX NO. 602 004 00 3

UN/ID NO. 1593

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351

P: P201-P202-P281-P308+P313-P405-P501a



Warning

Meets ACS SpecificationsAssay (CH₂Cl₂) (by GC, corrected for water) min. 99.5%

Appearance passes test

Color (APHA) max. 10

Free Halogens passes test

Preservative (cyclohexane) act. value reported

Residue after Evaporation max. 2 ppm

Titration Acid (µeq/g) max. 0.2

Water (by KF, coulometric) max. 30 ppm

Product Information (not specifications):

Boiling Point (typical) 39.5°C

Density (g/ml) at 25°C (typical) 1.318

PRODUCT NO.	PACKING	CONT. BOX
9295.1000	1 l	

Dichloromethane

9316 'BAKER BIO-ANALYZED'

▶ CH₂Cl₂

M = 84.93 g/mol

1 l = 1.32 kg

CAS NO. 75-09-2

EINECS 200-838-9

NC CODE 2903 12 000

EC INDEX NO. 602 004 00 3

UN/ID NO. 1593

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351

P: P201-P202-P281-P308+P313-P405-P501a



Warning

Assay (by GC) min. 99.5%

Color (APHA) max. 10

Preservative (as Amylene) about 20 ppm

Residue after Evaporation max. 5 ppm

Titration Acid (meq/g) max. 0.0001

Water (by KF, coulometric) max. 30 ppm

PRODUCT NO.	PACKING	CONT. BOX
9316.2500GL	2.5 l Glass	
9316.4000GL	4 l Glass	

Dichloromethane

'BAKER ANALYZED' / ACS

7053

▶ CH₂Cl₂

M = 84.93 g/mol

1 l = 1.32 kg

CAS NO. 75-09-2

EINECS 200-838-9

NC CODE 2903 12 000

EC INDEX NO. 602 004 00 3

UN/ID NO. 1593

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351

P: P201-P202-P281-P308+P313-
P405-P501a

Warning

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.5%
Appearance	clear
Color (APHA)	max. 10
Free Halogens	passes test
Preservative (as Amylene)	about 20 ppm
Residue after Evaporation	max. 0.002%
Titration Acid (meq/g)	max. 0.0002
Water (H ₂ O)	max. 0.02%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02

Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7053.1000	1 l	6
7053.2500	2.5 l	4
7053.5000	5 l EcoTainer	4
7053.9025	25 l	
7053.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.
For safe handling of 25 l tin cans, see Self-closing tap.

Dichloromethane

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

7305

▶ CH₂Cl₂

M = 84.93 g/mol

1 l = 1.32 kg

CAS NO. 75-09-2

EINECS 200-838-9

NC CODE 2903 12 000

EC INDEX NO. 602 004 00 3

UN/ID NO. 1593

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351

P: P201-P202-P281-P308+P313-
P405-P501a

Warning

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.5%
Appearance	clear
Color (APHA)	max. 10
Free Halogens	passes test
Preservative (as Amylene)	about 20 ppm
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0003
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.02%

Ultraviolet Absorbance (1.00-cm path vs water):

at 235 nm	max. 1.00
at 240 nm	max. 0.35
at 250 nm	max. 0.10
at 260 nm	max. 0.04
at 340-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7305.1000	1 l	6

Dichloromethane

'BAKER'

7153

▶ CH₂Cl₂

M = 84.93 g/mol

1 l = 1.32 kg

CAS NO. 75-09-2

EINECS 200-838-9

NC CODE 2903 12 000

EC INDEX NO. 602 004 00 3

UN/ID NO. 1593

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351

P: P201-P202-P281-P308+P313-
P405-P501a

Warning

Assay (by GC)	min. 99%
Boiling Range	38-41°C
Preservative (as Amylene)	about 20 ppm
Residue after Evaporation	max. 0.005%
Water (H ₂ O)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
7153.2500	2.5 l	4
7153.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.
For safe handling of 25 l tin cans, see Self-closing tap.

Dichromium Trioxide

See Chromium(VI) Oxide



Diethanolamine

'BAKER ANALYZED'

7026

▶ (HOCH₂CH₂)₂NH

M = 105.14 g/mol

1 l = 1.09 kg

FLASHPOINT 152 °C

CAS NO. 111-42-2

EINECS 203-868-0

NC CODE 2922 12 000

EC INDEX NO. 603 071 00 1

H: H302-H315-H318-H373

P: P260-P280-P305+P351+P338-P310-P362-P501a



Danger

Assay	min. 98.5%
Density (g/ml) at 30°C	1.088-1.093
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.005%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7026.2500	2.5 l	4

Diethylamine

'BAKER ANALYZED'

8030

▶ (C₂H₅)₂NH

M = 73.14 g/mol

1 l = 0.70 kg

FLASHPOINT -39 °C

CAS NO. 109-89-7

EINECS 203-716-3

NC CODE 2921 12 000

EC INDEX NO. 612 003 00 0

UN/ID NO. 1154

ADR/RID 3 FC

IMDG 3/II

H: H225-H302-H312-H314-H332

P: P210-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Assay (by GC)	min. 99.0%
Density (g/ml) at 25°C	0.698-0.702
Insoluble Matter	passes test
Residue after Evaporation	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
8030.1000	1 l	6

Diethyl Ether, Anhydrous

'BAKER ANALYZED' / ACS

8254

▶ (C₂H₅)₂O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT -20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 000

EC INDEX NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

H: EUH019-EUH066-H224-H302-H336

P: P210-P241-P261-P303+P361+P353-P405-P501a



Danger

Exceeds ACS Specifications

Assay (by GC)	min. 99.5%
Alcohol (C ₂ H ₅ OH)	max. 0.01%
Carbonyl Compounds (as HCHO)	max. 0.001%
Color (APHA)	max. 10
Density (g/ml) at 20°C	0.712-0.714
Foreign Odor	passes test
Peroxide (as H ₂ O ₂)	max. 3 ppm
Residue after Evaporation	max. 0.001%
Substances Darkened by H ₂ SO ₄	passes test
Titrate Acid (meq/g)	max. 0.0002
Water (H ₂ O)	max. 0.01%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02

Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8254.1000	1 l	6
8254.1000S	1 l EcoTainer	6
8254.5000	5 l EcoTainer	
8254.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with 7 ppm BHT.

Diethyl Ether, Anhydrous

'BAKER ANALYZED'

8401

▶ (C₂H₅)₂O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT -20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 000

EC INDEX NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

H: EUH019-EUH066-H224-
H302-H336P: P210-P241-P261-
P303+P361+P353-P405-P501a

Danger

Assay (by GC)	min. 99.5%
Alcohol (C ₂ H ₅ OH)	max. 0.01%
Carbonyl Compounds (as HCHO)	max. 0.001%
Color (APHA)	max. 10
Density (g/ml) at 20°C	0.712-0.714
Foreign Odor	passes test
Peroxide (as H ₂ O ₂)	max. 3 ppm
Residue after Evaporation	max. 0.001%
Substances Darkened by H ₂ SO ₄	passes test
Water (H ₂ O)	max. 0.01%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02

Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8401.1000	1 l	6
8401.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

Stabilized with 7 ppm BHT.

Diethyl Ether, Anhydrous

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

9259

▶ (C₂H₅)₂O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT <-20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 000

EC INDEX NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

H: EUH019-EUH066-H224-
H302-H336P: P210-P241-P261-
P303+P361+P353-P405-P501a

Danger

Assay (by GC) (corrected for water)
(exclusive of preservative) min. 99.0%

Diethyl Ether Interferences:

Color (APHA)	max. 10
Peroxide (as H ₂ O ₂)	max. 5 ppm
Residue after Evaporation	max. 1 ppm
Substances Darkened by H ₂ SO ₄	passes test
Suitability for U.S. EPA Method 8151A	passes test
Titration Acid (µeq/g)	max. 0.2
Water (by KF, coulometric)	max. 0.08%

PRODUCT NO.	PACKING	CONT. BOX
9259.1000	1 l	6
9259.4000	4 l Glass	

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Diethyl Ether, Anhydrous

'BAKER'

8106

▶ (C₂H₅)₂O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT -20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 000

EC INDEX NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

H: EUH019-EUH066-H224-
H302-H336P: P210-P241-P261-
P303+P361+P353-P405-P501a

Danger

Meets Reagent Specifications for testing Ph. Eur.
monographs

Acidity	passes test
Aldehydes	passes test
Distillation Range	34.0-35.0 °C
Identification	passes test
Non-volatile Matter	max. 20 mg/l
Peroxide	passes test
Relative Density	0.714-0.716
Substances with a Foreign Odour	passes test
Water (H ₂ O)	max. 2 g/l

PRODUCT NO.	PACKING	CONT. BOX
8106.1000	1 l	6
8106.5000	5 l EcoTainer	4
8106.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.
For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with 7 ppm BHT.

Stored at a temperature of 8°C to 15°C.

Stored in an airtight container.

Stored protected from light.

Diethyl Ether, Anhydrous

9237-03 'BAKER HPLC ANALYZED' / For Use in Liquid Chromatography and Spectrophotometry

▶ (C₂H₅)₂O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT -20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 000

EC INDEX NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

H: EUH019-EUH066-H224-
H302-H336P: P210-P241-P261-
P303+P361+P353-P405-P501a

Danger

Assay (by GC) (corrected for water) (exclusive of preservative) min. 99.5%

Peroxide (as H₂O₂) max. 5 ppmPreservative (C₂H₅OH) 1.5-2.5%

Residue after Evaporation max. 5 ppm

Titrable Acid (µeq/g) max. 0.2

Fluorescence Trace Impurities (as quinine base), ppb:

at 450 nm Emission max. 0.5

at Emission Maximum for Impurities max. 1.0

Ultraviolet Absorbance (1.00-cm path vs water):

400-350 nm max. 0.01

at 231 nm max. 0.4

at 254 nm max. 0.07

at 280 nm max. 0.02

UV Cut-off, nm max. 220

PRODUCT NO.	PACKING	CONT. BOX
9237-03	4 l Glass	4

Contains Alcohol as a Preservative.

9250

Diethyl Ether, Anhydrous

BakerDRY / Ultra Low Water / ACS

▶ (C₂H₅)₂O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT -20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 000

EC INDEX NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

H: EUH019-EUH066-H224-
H302-H336P: P210-P241-P261-
P303+P361+P353-P405-P501a

Danger

Meets ACS SpecificationsAssay (C₂H₅)₂O (by GC) min. 99.0%Alcohol (C₂H₅OH) max. 0.05%

Carbonyl (HCHO) (by polarography) max. 0.001%

Color (APHA) max. 10

Peroxide (as H₂O₂) max. 1 ppm

Residue after Evaporation max. 5 ppm

Titrable Acid (µeq/g) max. 0.2

Water (by KF, coulometric) max. 10 ppm

Product Information (not specifications):

Density (g/ml) at 25°C (typical) 0.7079

PRODUCT NO.	PACKING	CONT. BOX
9250.1000	1 l	

Contains no preservative.

▶ 1,4-Diethylene Dioxide

[See Dioxane](#)

▶ 9,10-Dihydro-9-oxoanthracene

[See Anthrone](#)

▶ 3,4-Dihydroxy-2-anthraquinonesulfonic acid, sodium salt

[See Alizarin Red S](#)

▶ 2,2'-Dihydroxydiethylamine

[See Diethanolamine](#)

▶ 3',6'-Dihydroxyfluoran

[See Fluorescein Disodium Salt](#)

▶ 4,5-Dihydroxy-2,7-naphthalenedisulfonic acid, disodium salt

[See Chromotropic Acid, Disodium Salt](#)

▶ Diiron Trioxide

[See Iron\(III\) Oxide](#)

Diisopropyl Ether

'BAKER ANALYZED'

8072

**M** = 102.18 g/mol**1 l** = 0.72 kg**FLASHPOINT** -20 °C**CAS NO.** 108-20-3**EINECS** 203-560-6**NC CODE** 2909 19 000**EC INDEX NO.** 603 045 00 0**UN/ID NO.** 1159**ADR/RID** 3 F1**IMDG** 3/II**H:** EUH019-EUH066-H225-H336**P:** P210-P241-P261-

P303+P361+P353-P405-P501a



Danger

Assay (by GC)	min. 98%
Acidity (as $\text{CH}_3\text{CH}_2\text{COOH}$)	max. 0.005%
Boiling Range	66-69°C
Density (g/ml) at 25°C	0.716-0.720
Peroxide (as $\text{C}_6\text{H}_{14}\text{O}_2$)	max. 0.05%
Residue after Evaporation	max. 0.005%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8072.1000	1 l	6

Dimethoxystyrychnine

See Brucine

N,N-Dimethylacetamide

'BAKER ANALYZED'

7030

**M** = 87.12 g/mol**1 l** = 0.93 kg**FLASHPOINT** 70 °C**CAS NO.** 127-19-5**EINECS** 204-826-4**NC CODE** 2924 10 000**EC INDEX NO.** 616 011 00 4**H:** H312-H332-H360D**P:** P261-P280-P281-P304+P340-P405-P501a

Danger

Boiling Range	165-167°C
Density (g/ml) at 25°C	0.933-0.937
pH of 20% Solution at 25°C	4.0-7.0
Residue after Ignition	max. 0.005%
Water (H_2O)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
7030.1000	1 l	6

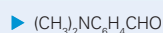
p-(Dimethylamino)azobenzene-o-carboxylic Acid

See Methyl Red

p-Dimethylaminobenzaldehyde

'BAKER ANALYZED'

1279

**M** = 149.19 g/mol**CAS NO.** 100-10-7**EINECS** 202-819-0**NC CODE** 2922 30 000

Assay (by Perchloric Acid titrn.)	min. 99%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1279.0100	100 g	

o-[(p-[Dimethylamino]phenyl)azo]benzoic Acid

See Methyl Red

Dimethylbenzene

See Xylene

9213

Dimethylformamide

BakerDRY / For use in Organic Synthesis / ACS

▶ HCON(CH₃)₂

M = 73.10 g/mol

1 l = 0.95 kg

FLASHPOINT 58 °C

CAS NO. 68-12-2

EINECS 200-679-5

NC CODE 2924 19 000

EC INDEX NO. 616 001 00 0

UN/ID NO. 2265

ADR/RID 3 F1

IMDG 3/III

H: H312-H319-H332-H360D

P: P261-P280-P281-

P305+P351+P338-P405-P501a



Danger

Meets ACS Specifications

Assay (HCON(CH ₃) ₂) (by GC, corrected for water)	min. 99.8%
Appearance	passes test
Color (APHA)	max. 15
Residue after Evaporation	max. 0.005%
Titration Acid (meq/g)	max. 0.0005
Titration Base (meq/g)	max. 0.003
Water (H ₂ O) (by Karl Fischer titrn.)	max. 20 ppm

Product Information (not specifications):

Boiling Point (typical)	153.0°C
Density (g/ml) at 25°C (typical)	0.944

PRODUCT NO.	PACKING	CONT. BOX
9213.1000	1 l	

Dimethylformamide can have a teratogenic effect.

Women in childbearing age are warned.

9344

Dimethylformamide

'BAKER BIO-ANALYZED' / For Biotechnology Applications

▶ HCON(CH₃)₂

M = 73.10 g/mol

1 l = 0.95 kg

FLASHPOINT 58 °C

CAS NO. 68-12-2

EINECS 200-679-5

NC CODE 2924 19 000

EC INDEX NO. 616 001 00 0

UN/ID NO. 2265

ADR/RID 3 F1

IMDG 3/III

H: H312-H319-H332-H360D

P: P261-P280-P281-

P305+P351+P338-P405-P501a



Danger

Assay (by GC) (corrected for water)	min. 99.8%
Amines (as dimethylamines)	max. 5 ppm
Appearance	passes test
Color (APHA)	max. 15
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0005
Titration Base (meq/g)	max. 0.003
Water (H ₂ O) (by Karl Fischer titrn.)	max. 400 ppm

Ultraviolet Absorbance (1.00-cm path vs water):

at 270 nm	max. 1.00
at 275 nm	max. 0.30
at 295 nm	max. 0.10
at 310 nm	max. 0.05
at 340 nm	max. 0.01
at 400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9344.4000	4 l Glass	4

Dimethylformamide can have a teratogenic effect.

Women in childbearing age are warned.

7032

Dimethylformamide

'BAKER ANALYZED' / ACS

▶ HCON(CH₃)₂

M = 73.10 g/mol

1 l = 0.95 kg

FLASHPOINT 58 °C

CAS NO. 68-12-2

EINECS 200-679-5

NC CODE 2924 19 000

EC INDEX NO. 616 001 00 0

UN/ID NO. 2265

ADR/RID 3 F1

IMDG 3/III

H: H312-H319-H332-H360D

P: P261-P280-P281-

P305+P351+P338-P405-P501a



Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.8%
Appearance	clear
Color (APHA)	max. 15
Residue after Evaporation	max. 0.005%
Titration Acid (meq/g)	max. 0.0005
Titration Base (meq/g)	max. 0.003
Water (H ₂ O)	max. 0.1%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7032.1000	1 l	6
7032.2500	2.5 l	4
7032.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Dimethylformamide can have a teratogenic effect.

Women in childbearing age are warned.

Dimethylformamide

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

7400

▶ $\text{HCON}(\text{CH}_3)_2$ **M** = 73.10 g/mol**1 l** = 0.95 kg**FLASHPOINT** 58 °C**CAS NO.** 68-12-2**EINECS** 200-679-5**NC CODE** 2924 19 000**EC INDEX NO.** 616 001 00 0**UN/ID NO.** 2265**ADR/RID** 3 F1**IMDG** 3/III**H:** H312-H319-H332-H360D**P:** P261-P280-P281-

P305+P351+P338-P405-P501a



Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water) min. 99.8%

Color (APHA) max. 15

Residue after Evaporation max. 0.005%

Titration Acid (meq/g) max. 0.0005

Titration Base (meq/g) max. 0.003

Water (H_2O) (by Karl Fischer titr.) max. 0.05%**Trace Impurities (in ppm):**

Iron (Fe) max. 0.05

Ultraviolet Absorbance (1.00-cm path vs water):

at 270 nm max. 1.00

at 275 nm max. 0.30

at 295 nm max. 0.10

at 310 nm max. 0.05

at 340-400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7400.0500	500 ml	6
7400.2500	2.5 l	

Dimethylformamide can have a teratogenic effect.

Women in childbearing age are warned.

2,9-Dimethyl-1,10-phenanthroline Hydrochloride

'BAKER ANALYZED'

2690

▶ $(\text{CH}_3)_2\text{C}_{12}\text{H}_8\text{N}_2 \cdot \text{HCl} \cdot \text{H}_2\text{O}$ **M** = 262.75 g/mol**CAS NO.** 7296-20-1**EINECS** 230-732-8**NC CODE** 2933 99 900

Sensitivity to Copper passes test

PRODUCT NO.	PACKING	CONT. BOX
2690.0001	1 g	

Dimethyl Sulfoxide

'BAKER ANALYZED' / Ultraviolet Spectrophotometry

7093

▶ $(\text{CH}_3)_2\text{SO}$ **M** = 78.13 g/mol**1 l** = 1.10 kg**FLASHPOINT** 95 °C**CAS NO.** 67-68-5**EINECS** 200-664-3**NC CODE** 2930 90 700**H:** H315-H319**P:** P264-P280-P305+P351+P338-

P332+P313-P337+P313-P362



Warning

Assay min. 99.5%

Color (APHA) max. 10

Residue after Evaporation max. 0.005%

Water (H_2O) max. 0.05%**Ultraviolet Absorbance, (1.00-cm path vs water)****(curve smooth throughout stated range with no****extraneous impurity peaks):**

at 270 nm max. 1.0

at 275 nm max. 0.40

at 280 nm max. 0.30

at 300 nm max. 0.10

at 335 nm max. 0.03

at 400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7093.1000	1 l	6

Dimethyl Sulfoxide

'BAKER ANALYZED'

7033

▶ $(\text{CH}_3)_2\text{SO}$ **M** = 78.13 g/mol**1 l** = 1.10 kg**FLASHPOINT** 95 °C**CAS NO.** 67-68-5**EINECS** 200-664-3**NC CODE** 2930 90 700**H:** H315-H319**P:** P264-P280-P305+P351+P338-

P332+P313-P337+P313-P362



Warning

Assay min. 99.0%

Color (APHA) max. 10

Density (g/ml) at 25°C min. 1.095

Freezing Point 18.0-19.0°C.

Residue after Evaporation max. 0.01%

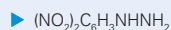
Water (H_2O) max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
7033.1000	1 l	6
7033.5000JC	5 l Jerrycan	
7033.9200	200 l	

IMPORTANT: Material will freeze if stored below 20°C.

2,4-Dinitrophenylhydrazine

1293

50% H₂O / 'BAKER'

M = 198.14 g/mol

CAS NO. 119-26-6

EINECS 204-309-3

NC CODE 2928 00 900

UN/ID NO. 1325

ADR/RID 4.1 D

IMDG 4.1/II

H: H200-H302-H315-H319

P: P280-P281-P305+P351+P338-P373-P380-P401a



Danger

Melting Point

198-200°C

Residue after Ignition

max. 0.1%

PRODUCT
NO.

PACKING

CONT.
BOX

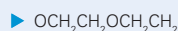
1293.0100

100 g

1,4-Dioxane

8434

PHOTREX Reagent / For Spectrophotometry and Liquid Scintillation Counting / ACS



M = 88.11 g/mol

1 l = 1.03 kg

FLASHPOINT 11 °C

CAS NO. 123-91-1

EINECS 204-661-8

NC CODE 2932 99 850

EC INDEX NO. 603 024 00 5

UN/ID NO. 1165

ADR/RID 3 F1

IMDG 3/II

H: EUH019-EUH066-H225-H319-H335-H351

P: P210-P241-P303+P361+P353-P305+P351+P338-P405-P501a



Danger

Meets ACS Specifications

Assay (by GC) (corrected for water)

min. 99.0%

Carbonyl Compounds (as HCHO) (by polarography)

max. 0.01%

Color (APHA)

max. 10

Counting Efficiency for ³H in Prepared

Cocktail

act value reported

Freezing Point

min. 11.0°C.

Peroxide (as H₂O₂)

max. 0.005%

Residue after Evaporation

max. 0.001%

Titrable Acid (meq/g)

max. 0.0016

Water (by KF, coulometric)

max. 0.02%

Ultraviolet Absorbance (1.00-cm path vs water):

at 215 nm

max. 1.00

at 225 nm

max. 0.60

at 250 nm

max. 0.25

at 270 nm

max. 0.10

at 280 nm

max. 0.05

at 295-400 nm

max. 0.01

at 420 nm

max. 0.005

Windows of Infrared Transmittance (0.1 mm path, 60-100%T), μm:

12.1-15.4

info only (not spec)

2.0-3.3

info only (not spec)

3.8-5.0

info only (not spec)

5.1-6.7

info only (not spec)

9.9-10.7

info only (not spec)

PRODUCT
NO.

PACKING

CONT.
BOX

8434.1000

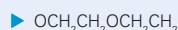
1 l

STORAGE: Store above 11°C (53°F) or product will freeze.

1,4-Dioxane

8031

'BAKER ANALYZED'



M = 88.11 g/mol

1 l = 1.03 kg

FLASHPOINT 11 °C

CAS NO. 123-91-1

EINECS 204-661-8

NC CODE 2932 99 850

EC INDEX NO. 603 024 00 5

UN/ID NO. 1165

ADR/RID 3 F1

IMDG 3/II

H: EUH019-EUH066-H225-H319-H335-H351

P: P210-P241-P303+P361+P353-P305+P351+P338-P405-P501a



Danger

Assay (by GC)

min. 99.0%

Carbonyl (as HCHO)

max. 0.05%

Color (APHA)

max. 10

Freezing Point

min. 11.0°C

Peroxide (as H₂O₂)

max. 0.01%

Residue after Evaporation

max. 0.005%

Titrable Base (meq/g)

max. 0.0002

Water (H₂O)

max. 0.1%

Trace Impurities (in ppm):

Aluminium (Al)

max. 0.5

Barium (Ba)

max. 0.1

Boron (B)

max. 0.02

Cadmium (Cd)

max. 0.05

Calcium (Ca)

max. 0.5

Chromium (Cr)

max. 0.02

Cobalt (Co)

max. 0.02

Copper (Cu)

max. 0.02

Iron (Fe)

max. 0.1

Lead (Pb)

max. 0.1

Magnesium (Mg)

max. 0.1

Manganese (Mn)

max. 0.02

Nickel (Ni)

max. 0.02

Tin (Sn)

max. 0.1

Zinc (Zn)

max. 0.1

PRODUCT
NO.

PACKING

CONT.
BOX

8031.1000

1 l

6

8031.2500

2.5 l

4

8031.9200

200 l

Stabilized.

Diphenylamine

'BAKER ANALYZED' / ACS

1071

▶ (C₆H₅)₂NH

M = 169.23 g/mol

CAS NO. 122-39-4

EINECS 204-539-4

NC CODE 2921 44 000

EC INDEX NO. 612 026 00 5

UN/ID NO. 2811

ADR/RID 6.1 T2

IMDG 6.1/II

H: H301-H311-H331-H373-
H400-H410P: P260-P261-P301+P310-P361-
P405-P501a

Danger

Meets ACS Specifications

Melting Point	52.5-54.0°C
Nitrate (NO ₃)	passes test
Residue after Ignition	max. 0.03%
Sensitivity to Nitrate	passes test
Solubility in Alcohol	passes test

PRODUCT NO.	PACKING	CONT. BOX
1071.0100	100 g	

Diphenylcarbazine

powder / 'BAKER ANALYZED' / ACS

1295

▶ C₆H₅NHNHCONHNHC₆H₅

M = 242.28 g/mol

CAS NO. 140-22-7

EINECS 205-403-7

NC CODE 2928 00 900

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Melting Point	173-176°C
Residue after Ignition	max. 0.05%
Sensitivity for Chromate	passes test
Solubility in Aqueous Acetone	passes test

PRODUCT NO.	PACKING	CONT. BOX
1295.0025	25 g Glass	

1,5-Diphenylcarbohydrazide

See Diphenylcarbazine

4,7-Diphenyl-1,10-phenanthroline

'BAKER ANALYZED'

1691

▶ (C₆H₅)₂C₁₂H₆N₂

M = 332.41 g/mol

CAS NO. 1662-01-7

EINECS 216-767-1

NC CODE 2933 90 950

Sensitivity to Iron passes test

PRODUCT NO.	PACKING	CONT. BOX
1691.0002	2 g	

Dipotassium Hydrogen Phosphate

See Potassium Hydrogen Phosphate Anhydrous

Disodium (Ethylenedinitrilo)tetraacetate

See EDTA, Disodium Salt

Disodium Tetraborate Anhydrous

'BAKER ANALYZED' / For X-ray Fluorescence Analysis

0367

▶ Na₂B₄O₇

M = 201.22 g/mol

CAS NO. 1330-43-4

EINECS 215-540-4

NC CODE 2840 11 000

H: H360FD

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

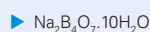
Assay (acidimetric)	min. 99.0%	Manganese (Mn)	max. 0.0005%
Barium (Ba)	max. 0.002%	Nickel (Ni)	max. 0.0002%
Calcium (Ca)	max. 0.005%	Phosphate (as PO ₄)	max. 0.002%
Chloride (Cl)	max. 0.005%	Potassium (K)	max. 0.005%
Chromium (Cr)	max. 0.0002%	Silicate (as SiO ₂)	max. 0.05%
Cobalt (Co)	max. 0.0002%	Strontium (Sr)	max. 0.001%
Copper (Cu)	max. 0.0002%	Sulfate (SO ₄)	max. 0.005%
Iron (Fe)	max. 0.001%		
Lead (Pb)	max. 0.0002%		
Lithium (Li)	max. 0.005%		
Loss on ignition (800°C)	max. 1.0%		
Magnesium (Mg)	max. 0.001%		

PRODUCT NO.	PACKING	CONT. BOX
0367.5000	5 kg	

Disodium Tetraborate Decahydrate

0268

crystal / 'BAKER ANALYZED' / ACS



M = 381.37 g/mol

CAS NO. 1303-96-4

EINECS 215-540-4

NC CODE 2840 19 900

H: H360FD

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Meets ACS Specifications

Assay	99.5-105.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 0.01 M Solution at 25°C	9.15-9.20
Phosphate (PO_4)	max. 0.001%
Sulfate (SO_4)	max. 0.005%

Trace Impurities (in ppm):

Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0268.1000	1 kg	6
0268.9010	10 kg	

0270

Disodium Tetraborate Decahydrate

'BAKER'



M = 381.37 g/mol

CAS NO. 1303-96-4

EINECS 215-540-4

NC CODE 2840 19 900

H: H360FD

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Assay	99.0-103.0%
Ammonium (NH_4)	max. 10 ppm
Appearance of solution	passes test
Arsenic (As)	max. 5 ppm
Calcium (Ca)	max. 100 ppm
Heavy Metals (as Pb)	max. 25 ppm
Identification	passes test
pH	9.0 - 9.6
Sulfates (as SO_4)	max. 50 ppm

PRODUCT NO.	PACKING	CONT. BOX
0270.1000	1 kg	



Dithiothreitol

See Cleland's Reagent



DMSO

See Dimethyl Sulfoxide

4533

Drum opener for 25l and 200l solvents cans

PRODUCT NO.	PACKING	CONT. BOX
4533	1 unit	



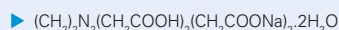
EDTA

See Ethylenediamine Tetraacetic Acid

4040

EDTA, Disodium Salt

crystal / crystal / 'BAKER ULTRAPURE BIOREAGENT'



M = 372.24 g/mol

CAS NO. 6381-92-6

EINECS 205-358-3

NC CODE 2922 49 950

Assay	99.0-101.0%
Calcium (Ca)	max. 0.005%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.005%
NitritotriAcetic Acid (by polarography)	max. 0.1%
pH of 5% Solution at 25°C	4.0-6.0
Protease Activity	none detected
RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4040.0100	100 g	
4040.0500	500 g	
4040.1000	1 kg	
4040.5000	5 kg	

EDTA, Disodium Salt

'BAKER ANALYZED'

1073

▶ $(\text{CH}_2)_2\text{N}_2(\text{CH}_2\text{COOH})_2(\text{CH}_2\text{COONa})_2 \cdot 2\text{H}_2\text{O}$	Assay	99.0-101.0%
M = 372.24 g/mol	Heavy Metals (as Pb)	max. 0.001%
CAS NO. 6381-92-6	Insoluble Matter	max. 0.005%
EINECS 205-358-3	pH of 5% Solution at 25°C	4.0-6.0
NC CODE 2922 49 950	Sulfate (SO_4)	max. 0.01%
Trace Impurities (in ppm):		
	Copper (Cu)	max. 3
	Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1073.0250	250 g	6
1073.0500	500 g	6
1073.1000	1 kg	6

EDTA, Disodium Salt

'BAKER'

2060

▶ $(\text{CH}_2)_2\text{N}_2(\text{CH}_2\text{COOH})_2(\text{CH}_2\text{COONa})_2 \cdot 2\text{H}_2\text{O}$	Assay	min. 98%
M = 372.24 g/mol		
CAS NO. 6381-92-6		
EINECS 205-358-3		
NC CODE 2922 49 950		

PRODUCT NO.	PACKING	CONT. BOX
2060.1000	1 kg	
2060.5000	5 kg	

EDTA, Disodium Salt

(1ml = 1mg CaCO_3) / standard solution / 'BAKER ANALYZED'

7092

▶ $(\text{CH}_2)_2\text{N}_2(\text{CH}_2\text{COOH})_2(\text{CH}_2\text{COONa})_2 \cdot 2\text{H}_2\text{O}$	Heavy Metals (as Pb)	max. 5 ppm
M = 372.24 g/mol	Iron (Fe)	max. 5 ppm
EINECS 231-791-2	Titer	0.98-1.02mg CaCO_3 /ml
NC CODE 2922 49 950		

PRODUCT NO.	PACKING	CONT. BOX
7092.1000	1 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

EDTA, Disodium Salt

Solution A, 0.1 mol/l / 'BAKER ANALYZED' / 0.1M solution with Mg- and Zn-complex for the determination of waterhardness. 1 ml represents 5.0

7126

NC CODE 2922 49 950

PRODUCT NO.	PACKING	CONT. BOX
7126.1000	1 l	

Volumetric Solution, ready for use.

EDTA, Disodium Salt

Solution B, 0.01783 mol/l / 'BAKER ANALYZED' / 0.01783M solution with Mg- and Zn-complex for the determination of waterhardness. 1 ml represents 1

7127

NC CODE 2922 49 950

PRODUCT NO.	PACKING	CONT. BOX
7127.1000	1 l	
7127.9020	20 l Polycube	

Volumetric Solution, ready for use.

EDTA, Disodium Salt

0.1 mol/l / 'BAKER ANALYZED'

7124

EINECS 205-358-3	Titer (mol/l)	0.0997-0.1003
NC CODE 2922 49 950		
H: EUH210		

PRODUCT NO.	PACKING	CONT. BOX
7124.1000	1 l	
7124.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each Lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Sodium Carbonate.

EDTA

EDTA, Disodium Salt

7481 0.05 mol/l / 'BAKER ANALYZED'

EINECS	231-791-2	Titer (mol/l)	0.0495-0.0505
NC CODE	2922 49 950		
H:	EUH210		

PRODUCT NO.	PACKING	CONT. BOX
7481.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

EDTA, Disodium Salt

7125 0.02 mol/l / 'BAKER ANALYZED'

CAS NO.	139-33-3	Titer (mol/l)	0.0195-0.0205
EINECS	205-358-3		
NC CODE	2922 49 950		

PRODUCT NO.	PACKING	CONT. BOX
7125.1000	1 l	

Volumetric Solution, ready for use.

EDTA, Disodium Salt

7613 0.01 mol/l / 'BAKER ANALYZED'

CAS NO.	139-33-3	Molarity (M)	0.0099-0.0101
EINECS	205-358-3		
NC CODE	2922 49 950		

PRODUCT NO.	PACKING	CONT. BOX
7613.1000	1 l	6

Volumetric Solution, ready for use.

EDTA, Disodium Salt

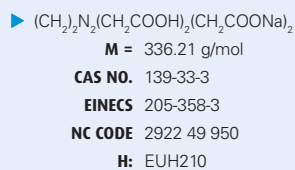
4871 Solution A, 0.1 mol/l / DILUT-IT

NC CODE	2922 49 950

PRODUCT NO.	PACKING	CONT. BOX
4871	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l

EDTA, Disodium Salt

4653 0.1 mol/l; $\frac{1}{10}$ M = 33.62g, 0.1M / DILUT-IT

PRODUCT NO.	PACKING	CONT. BOX
4653	500 ml Sealed Bottle	6

Volumetric Concentrate, for dilution to 1 l.

EDTA, Disodium Salt

4870 0.01 mol/l / DILUT-IT

EINECS	205-358-3
NC CODE	2922 49 950

PRODUCT NO.	PACKING	CONT. BOX
4870	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l

EDTA, Iron(III) Sodium Salt

1883 13% Iron / Practical

► $\text{C}_{10}\text{H}_{12}\text{FeN}_2\text{NaO}_8$	Appearance	passes test
M = 367.05 g/mol	Iron (Fe)	12.5-13.5%
CAS NO. 15708-41-5	Total EDTA	min. 67.5%
EINECS 239-802-2		
NC CODE 2922 49 900		

PRODUCT NO.	PACKING	CONT. BOX
1883.0500	500 g	

Ehrlich's Reagent

See Dimethylaminobenzaldehyde

Eosin-Methyleneblue solution according Leishman

See Leishman

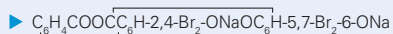
Eosin-Methyleneblue solution according Wright

See Wright

Eosin Y (Yellowish)

'BAKER'

1303



Assay

min. 88%

M = 691.88 g/mol

CAS NO. 15086-94-9

EINECS 239-138-3

NC CODE 3204 12 000

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

PRODUCT NO.

PACKING

CONT. BOX

1303.0025

25 g Glass

C.I. 45380.

Eosine-Y-solution

Histology

3871

1 l = 0.91 kg

FLASHPOINT 29 °C

NC CODE 3822 00 000

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3.2/III

H: H226

P: P210-P240-P241-P280-P303+P361+P353-P403+P235



Warning

Eosine Y Staining Solution for use in combination with Hematoxilin

PRODUCT NO.

PACKING

CONT. BOX

3871.1000

1 l Glass

3871.2500

2.5 l Glass

3871.9200

200 l HDPE

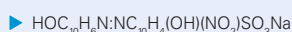
1,2-Epoxypropane

See Propylene Oxide

Eriochrome Black T

'BAKER ANALYZED'

1107



Sensitivity as Indicator

passes test

M = 461.40 g/mol

CAS NO. 1787-61-7

EINECS 217-250-3

NC CODE 3204 19 000

UN/ID NO. 3077

ADR/RID 9 M7

IMDG 9/III

H: H319-H411

P: P264-P273-P280-P305+P351+P338-P337+P313-P501a



Warning

PRODUCT NO.

PACKING

CONT. BOX

1107.0025

25 g Glass

1,2-Ethanedilol

See Ethylene Glycol

N,N'-1,2-Ethanedilbis[N-(carboxymethyl)glycine], Disodium salt

See EDTA, Disodium Salt

Ethanol

8098

Absolute / 'BAKER ANALYZED' / Ultraviolet Spectrophotometry

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225

P: P210-P240-P241-P280-
P303+P361+P353-P501a

Danger

Assay min. 99.5%

Residue after Evaporation max. 0.001%

Water (H₂O) max. 0.2%

Ultraviolet Absorbance, (1.00-cm path vs water)

(curve smooth throughout stated range with no
extraneous impurity peaks):

at 210 nm max. 1.00

at 220 nm max. 0.50

at 230 nm max. 0.20

at 250 nm max. 0.05

at 270-400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8098.0500	500 ml	6
8098.2500	2.5 l	

Excluding excise.

8462

Ethanol

Absolute / 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225

P: P210-P240-P241-P280-
P303+P361+P353-P501a

Danger

Assay min. 99.5%

Density (g/ml) at 20°C 0.789 - 0.790

Free Acid (as CH₃COOH) max. 0.001%

Residue after Evaporation max. 0.001%

Water (H₂O) max. 0.2%

Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm max. 0.7

at 240 nm max. 0.1

at 260 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8462.1000	1 l	6
8462.2500	2.5 l	4

Excluding excise.

8006

Ethanol

Absolute / 'BAKER ANALYZED' / ACS

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225

P: P210-P240-P241-P280-
P303+P361+P353-P501a

Danger

Exceeds ACS Specifications

Assay min. 99.9% (v/v)

Acetone, isopropylalcohol passes test

Color (APHA) max. 10

Methanol (CH₃OH) max. 0.1%

Residue after Evaporation max. 0.001%

Solubility in Water passes test

Substances Darkened by H₂SO₄ passes testSubstances Reducing KMnO₄ passes test

Titrable Acid (meq/g) max. 0.0005

Titrable Base (meq/g) max. 0.0002

Water (H₂O) max. 0.2%

Trace Impurities (in ppm):

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu)	max. 0.2
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8006.0250	250 ml Glass	
8006.1000	1 l	6
8006.1000PE	1 l HDPE	6
8006.2500	2.5 l	4
8006.2500PE	2.5 l HDPE	4
8006.5000PE	5 l HDPE	
8006.9025	25 l	

Excluding excise.

For safe handling of 25 l tin cans, see Self-closing tap.

Ethanol

99.8% / HISTO GRADE

3406

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225

P: P210-P240-P241-P280-
P303+P361+P353-P501a

Danger

Assay	min. 99.8%
Calcium (Ca)	max. 5 ppm
Iron (Fe)	max. 1 ppm
Residue after Evaporation	max. 0.0015%
Substances Darkened by H ₂ SO ₄	passes test
Titrate Acid (meq/g)	max. 0.001
Water (H ₂ O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
3406.2500PE	2.5 l HDPE	
3406.5000	5 l Jerrycan	
3406.9010	10 l Jerrycan	
3406.9025	25 l Jerrycan	
Excluding excise.		

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Ethanol

99%, denatured / HISTO GRADE

3408

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225-H332-H371

P: P210-P241-P260-P261-
P303+P361+P353-P405

Danger

Assay (exclusive about 5% methanol)	min. 99%
Methanol (CH ₃ OH)	4-6%
Water (H ₂ O)	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
3408.5000	5 l Jerrycan	
Excluding excise.		

Denatured with 5% Methanol.

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Ethanol

96% (v/v) / 'BAKER ANALYZED' / ACS

8007

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.81 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225

P: P210-P240-P241-P280-
P303+P361+P353-P403+P235

Danger

Exceeds ACS Specifications

Assay	95.1-96.9% (v/v)
Acetone, isopropylalcohol	passes test
Color (APHA)	max. 10
Methanol (CH ₃ OH)	max. 0.1%
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Substances Darkened by H ₂ SO ₄	passes test
Substances Reducing KMnO ₄	passes test
Titrate Acid (meq/g)	max. 0.0005
Titrate Base (meq/g)	max. 0.0002

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02

Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8007.1000	1 l	6
8007.2500	2.5 l	4
8007.2500PE	2.5 l HDPE	4
8007.5000	5 l EcoTainer	4
8007.9025	25 l	
8007.9200	200 l	
EcoTainer, the metal solvent can for more safety in the lab.		
Excluding excise.		
For safe handling of 25 l tin cans, see Self-closing tap.		

Ethanol

3405 96% (v/v) / HISTO GRADE

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.81 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225

P: P210-P240-P241-P280-

P303+P361+P353-P403+P235



Danger

Assay	min. 96% (v/v)
Calcium (Ca)	max. 5 ppm
Iron (Fe)	max. 1 ppm
Residue after Evaporation	max. 0.0015%
Substances Darkened by H ₂ SO ₄	passes test
Titrate Acid (meq/g)	max. 0.001

PRODUCT NO.	PACKING	CONT. BOX

3405.2500PE 2.5 l HDPE

3405.5000 5 l Jerrycan

3405.9010 10 l Jerrycan

3405.9025 25 l Jerrycan

Excluding excise.

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Ethanol

3407 96% (v/v), denatured / HISTO GRADE

▶ C₂H₅OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 000

EC INDEX NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225-H332-H371

P: P210-P241-P260-P261-

P303+P361+P353-P405



Danger

Assay (exclusive about 5% methanol)	min. 96% (v/v)
Methanol (CH ₃ OH)	4-6%
Water (H ₂ O)	4-6%

PRODUCT NO.	PACKING	CONT. BOX

3407.5000 5 l Jerrycan

3407.9010 10 l Jerrycan

3407.9025 25 l Jerrycan

3407.9200 200 l HDPE

Excluding excise.

Denatured with 5% Methanol.

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Ethanolamine

9314-01 'BAKER ANALYZED' / ACS

▶ HOCH₂CH₂NH₂

M = 61.08 g/mol

1 l = 1.01 kg

FLASHPOINT 85 °C

CAS NO. 141-43-5

EINECS 205-483-3

NC CODE 2922 11 000

EC INDEX NO. 603 030 00 8

UN/ID NO. 2491

ADR/RID 8 C7

IMDG 8/III

H: H302-H312-H314-H332

P: P260-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay (by GC) (corrected for water)	min. 99.0%
Color (APHA)	max. 15
Water (H ₂ O) (by Coulometry)	max. 0.30%

Product Information (not specifications):

Density (g/ml) at 25°C (typical)	1.012

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

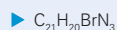
9314-01 500 ml Glass

12

Ethidium Bromide

'BAKER ULTRAPURE BIOAGENT' / For Nucleic Acid Detection

4007



M = 394.31 g/mol

CAS NO. 1239-45-8

EINECS 214-984-6

NC CODE 2933 99 900

UN/ID NO. 2811

ADR/RID 6.1 T2

IMDG 6.1/I

H: H302-H330-H341

P: P260-P281-P284-P310-P405-

P501a



Danger

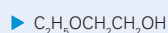
Assay (dried basis)	min. 98%
DNase Activity	none detected
Protease Activity	none detected
RNase Activity	none detected
UV Absorbance at Maximum	min. 1.25
UV Absorbance, nm	283-287
Visible Absorbance at Maximum	min. 0.65
Visible Absorbance, nm	475-481

PRODUCT NO.	PACKING	CONT. BOX
4007.0001	1 g	
4007.0005	5 g	

2-Ethoxyethanol

'BAKER ANALYZED'

8083



M = 90.12 g/mol

1 l = 0.93 kg

FLASHPOINT 40 °C

CAS NO. 110-80-5

EINECS 203-804-1

NC CODE 2909 44 000

EC INDEX NO. 603 012 00 0

UN/ID NO. 1171

ADR/RID 3 F1

IMDG 3/III

H: H226-H302-H312-H332-H360FD

P: P210-P241-P261-

P303+P361+P353-P405-P501a



Danger

Assay (by GC)	min. 98%
Boiling Range (95%)	133-137°C
Density (g/ml) at 20°C	0.929-0.930
Residue after Evaporation	max. 0.01%
Water (H ₂ O)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
8083.1000	1 l	6

Ethyl Acetate

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

9260



M = 88.11 g/mol

1 l = 0.90 kg

FLASHPOINT -4 °C

CAS NO. 141-78-6

EINECS 205-500-4

NC CODE 2915 31 000

EC INDEX NO. 607 022 00 5

UN/ID NO. 1173

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-

P305+P351+P338-P405-P501a



Danger

Assay (by GC) (corrected for water)	min. 99.6%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by H ₂ SO ₄	passes test
Titration Acid (meq/g)	max. 0.0008
Water (H ₂ O)	max. 0.05%

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml) max. 10

FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9260.1000	1 l	6
9260.2500	2.5 l	4

Ethyl Acetate

9282 'BAKER HPLC ANALYZED' / For Use in Liquid Chromatography and Spectrophotometry



M = 88.11 g/mol

1 l = 0.90 kg

FLASHPOINT -4 °C

CAS NO. 141-78-6

EINECS 205-500-4

NC CODE 2915 31 000

EC INDEX NO. 607 022 00 5

UN/ID NO. 1173

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-

P305+P351+P338-P405-P501a



Danger

Assay (by GC) (corrected for water) min. 99.6%

Residue after Evaporation max. 2 ppm

Titrable Acid (µeq/g) max. 0.8

Water (by KF, volumetric) max. 0.04%

Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm act. value reported

Measured at Emission Maximum act. value reported

Ultraviolet Absorbance (1.00-cm path vs water):

at 265 nm max. 0.05

at 280 nm max. 0.02

at 330-400 nm max. 0.01

UV Cut-off, nm max. 255

PRODUCT NO.	PACKING	CONT. BOX
9282.1000	1 l	6
9282.4000	4 l Glass	4

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

8204

Ethyl Acetate

'BAKER INSTRA-ANALYZED' / GC-Spectrophotometric quality / ACS



M = 88.11 g/mol

1 l = 0.90 kg

FLASHPOINT -4 °C

CAS NO. 141-78-6

EINECS 205-500-4

NC CODE 2915 31 000

EC INDEX NO. 607 022 00 5

UN/ID NO. 1173

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-

P305+P351+P338-P405-P501a



Danger

Meets ACS Specifications

Assay (by GC) min. 99.5%

Color (APHA) max. 10

Residue after Evaporation max. 0.003%

Substances Darkened by H₂SO₄ passes test

Titrable Acid (meq/g) max. 0.0009

Water (H₂O) max. 0.2%**Ultraviolet Absorbance, (1.00-cm path vs water)****(curve smooth throughout stated range with no****extraneous impurity peaks):**

at 255 nm max. 1.00

at 257 nm max. 0.50

at 263 nm max. 0.10

at 275 nm max. 0.05

at 330-400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8204.1000	1 l	

8037

Ethyl Acetate

'BAKER ANALYZED' / ACS



M = 88.11 g/mol

1 l = 0.90 kg

FLASHPOINT -4 °C

CAS NO. 141-78-6

EINECS 205-500-4

NC CODE 2915 31 000

EC INDEX NO. 607 022 00 5

UN/ID NO. 1173

ADR/RID 3 F1

IMDG 3/II

H: EUH066-H225-H319-H336

P: P210-P241-P303+P361+P353-

P305+P351+P338-P405-P501a



Danger

Exceeds ACS Specifications

Assay (by GC) min. 99.5%

Color (APHA) max. 10

Residue after Evaporation max. 0.003%

Substances Darkened by H₂SO₄ passes test

Titrable Acid (meq/g) max. 0.0009

Water (H₂O) max. 0.2%**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8037.1000	1 l	6
8037.2500	2.5 l	4
8037.5000	5 l EcoTainer	
8037.9025	25 l	
8037.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.



Ethylene Chloride

See Dichloroethane

Ethylenediamine

'BAKER'

8409

▶ $\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2$
M = 60.10 g/mol
1 l = 0.90 kg
FLASHPOINT 34 °C
CAS NO. 107-15-3
EINECS 203-468-6
NC CODE 2921 21 000
EC INDEX NO. 612 006 00 6
UN/ID NO. 1604
ADR/RID 8 CF1
IMDG 8/II
H: H226-H302-H312-H314-H317-H334
P: P210-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Assay 98-100.5%
 Heavy Metals (as Pb) max. 0.002%
 Identification passes test
 Organic Volatile Impurities passes test

PRODUCT NO.	PACKING	CONT. BOX
8409.1000	1 l	
8409.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Ethylenediamine Tetraacetic Acid

Powder / 'BAKER ANALYZED'

1109

▶ $(\text{HOCOCH}_2)_2\text{NCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{COOH})_2$
M = 292.25 g/mol
CAS NO. 60-00-4
EINECS 200-448-9
NC CODE 2922 49 950
H: H319
P: P264-P280-P305+P351+P338-P337+P313



Warning

Assay 99.4-100.6%
 Heavy Metals (as Pb) max. 0.001%
 Insoluble in Dilute NH_4OH max. 0.005%
 Iron (Fe) max. 0.005%
 Residue after Ignition max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
1109.0100	100 g	
1109.1000	1 kg	6

Ethylenediamine Tetraacetic Acid, Disodium Salt

See EDTA, Disodium Salt

Ethylenediamine Tetraacetic Acid, Iron(III) Sodium Salt

See EDTA, Iron(III) Sodium Salt

Ethylene Glycol

'BAKER ANALYZED'

7037

▶ $\text{HOCH}_2\text{CH}_2\text{OH}$
M = 62.07 g/mol
1 l = 1.11 kg
FLASHPOINT 111 °C
CAS NO. 107-21-1
EINECS 203-473-3
NC CODE 2905 31 000
EC INDEX NO. 603 027 00 1
H: H302
P: P264-P270-P301+P312-P330-P501a



Warning

Assay (by GC) min. 99.0%
 Acidity (as CH_3COOH) max. 0.01%
 Boiling Point 195-198°C
 Boiling Range 194.0-200.0°C
 Color (APHA) max. 10
 Density (g/ml) at 20°C 1.110-1.114
 Residue after Ignition max. 0.005%
 Water (H_2O) max. 0.2%
Trace Impurities (in ppm):
 Chloride (Cl) max. 5
 Iron (Fe) max. 0.2

PRODUCT NO.	PACKING	CONT. BOX
7037.1000	1 l	6
7037.2500	2.5 l	4
7037.9010	10 l	
7037.9025	25 l	
7037.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Ethylene Glycol Monoethyl Ether

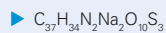
See Ethoxyethanol

Ethylene Glycol Monomethyl Ether

See Methoxyethanol

▶ **Ethylene Tetrachloride**[See Tetrachloroethylene](#)▶ **Ethyl Methyl Ketone**[See Methyl Ethyl Ketone](#)**Fast Green FCF**

1476

[Certified Stain](#) / [Certified Stain](#) / 'BAKER ANALYZED' / [Certified for Use in Histology and Cytology](#)**M** = 808.86 g/mol**CAS NO.** 2353-45-9**NC CODE** 3204 19 000**H:** H341**P:** P201-P202-P281-P308+P313-P405-P501a

Warning

GMP Manufactured ProductAbsorbance at maximum (0.6 mg/200 ml in 50% C₂H₅OH, 1-cm path)

act. value reported

Absorbance Maximum, nm

act. value reported

Biological Test

passes test

Total Dye Content

act. value reported

PRODUCT NO.	PACKING	CONT. BOX
1476.0025	25 g Glass	

Certified by the Biological Stain Commission.

C.I. 42053.

▶ **Fast staining in Hematology**[See Sørensen buffer](#)**Fehling's Reagent I**

7478

'BAKER'

1 l = 1.05 kg**CAS NO.** 7758-98-7**EINECS** 231-847-6**NC CODE** 2833 25 000**H:** H411**P:** P273-P391-P501a

Suitability for determination of reducing

sugars

passes test

PRODUCT NO.	PACKING	CONT. BOX
7478.0500	500 ml	6
7478.2500	2.5 l	

*Copper(II) Sulfate solution.***Fehling's Reagent II**

7479

'BAKER'

1 l = 1.24 kg**CAS NO.** 6381-59-5**EINECS** 205-698-2**NC CODE** 2918 13 000**UN/ID NO.** 3266**ADR/RID** 8 C5**IMDG** 8/II**H:** H314**P:** P260-P280-P303+P361+P353-P305+P351+P338-P310-P405

Danger

Suitability for determination of reducing

sugars

passes test

PRODUCT NO.	PACKING	CONT. BOX
7479.0500	500 ml	6
7479.2500	2.5 l	

Potassium Sodium Tartrate solution, alkaline.▶ **Ferric Ammonium Sulfate**[See Ammonium Iron\(III\) Sulfate Dodecahydrate](#)▶ **Ferrous Ammonium Sulfate**[See Ammonium Iron\(II\) Sulfate Hexahydrate](#)▶ **Fixatives**[See Bouin's Fixative](#)

Florisol

Activated at 675°C / 60-100 mesh / 'BAKER ANALYZED' / Suitable for use in chromatography cleanup of pesticides residues

3369

NC CODE 2839 90 000

Mesh:

On U.S. No. 60 Sieve	max. 10%
Thru U.S. No. 100 Sieve	max. 10%

Physical Data (not specifications):

Average Particle Diameter, µm (APD)	140-250
Bulk Density (g/cc)	0.5

PRODUCT NO.	PACKING	CONT. BOX
3369.0500	500 g	
3369.2000	2 kg	

Product may contain black particles that are produced during the manufacturing process.

Florisol

60-100 mesh / 'BAKER ANALYZED' / For Hydrocarbon Oil Index determination according to ISO 9377-2 and NEN 5733

7061-00

CAS NO. 1343-88-0

EINECS 215-681-1

NC CODE 2839 90 000

Florisol recovery test with stearyl-stearate/
mineral oil standard acc. to ISO 9377-2 passes test

Physical Data (not specifications):

Average Particle Diameter, µm (APD)	140-250
Bulk Density (g/cc)	0.5

PRODUCT NO.	PACKING	CONT. BOX
7061-00	100 g	

Activated Magnesium Silicate.

After opening: Store in desiccator.

Florisol

60-100 mesh / 'BAKER' / Gas Chromatographic Adsorbent

0567

CAS NO. 1343-88-0

EINECS 215-681-1

NC CODE 2839 90 000

Physical Data (not specifications):

Average Particle Diameter, µm (APD)	140-250
Bulk Density (g/cc)	0.5

PRODUCT NO.	PACKING	CONT. BOX
0567.0250	250 g	6

Activated Magnesium Silicate.

Fluorescein Disodium Salt

'BAKER'

1314

▶ $2\text{-NaOCOC}_6\text{H}_4\text{C}(\text{C}_6\text{H}_3\text{3}(\text{O})\text{OC}_6\text{H}_3\text{6-ONa})$
 $M = 376.28 \text{ g/mol}$

CAS NO. 518-47-8

EINECS 208-253-0

NC CODE 3204 12 000

Appearance passes test
 Appearance of solution passes test

PRODUCT NO.	PACKING	CONT. BOX
1314.0025	25 g Glass	6

C.I. 45350.

Formaldehyde solution

37% / 'BAKER ANALYZED' / Stabilized with 10-15% methanol

7040

▶ HCHO

 $M = 30.03 \text{ g/mol}$ $1 \text{ l} = 1.09 \text{ kg}$

FLASHPOINT 60 °C

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 000

EC INDEX NO. 605 001 00 5

UN/ID NO. 2209

ADR/RID 8 C9

IMDG 8/III

H: H311-H331-H370-H351-H314-
H302-H317P: P260-P303+P361+P353-
P305+P351+P338-P310-
P361-P405

Danger

Assay	36.5-38.0%
Color (APHA)	max. 10
Preservative (CH ₃ OH)	10-15%
Residue after Ignition	max. 0.01%
Sulfate (SO ₄)	max. 0.002%
Titrate Acid (meq/g)	max. 0.006

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7040.1000	1 l	6
7040.2500	2.5 l	4
7040.5000	5 l HDPE	

Formaldehyde solution

7041 37% / 'BAKER' / Stabilized with 9-15% Methanol

▶ HCHO

M = 30.03 g/mol

1 l = 1.09 kg

FLASHPOINT 60 °C

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 000

EC INDEX NO. 605 001 00 5

UN/ID NO. 2209

ADR/RID 8 C9

IMDG 8/III

H: H311-H331-H370-H351-H314-
H302-H317P: P260-P303+P361+P353-
P305+P351+P338-P310-
P361-P405

Danger

Assay	37.0-38.0%
Acidity	passes test
Appearance of solution	passes test
Identification	passes test
Methanol (CH ₃ OH)	9.0-15.0%
Sulfated Ash	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
7041.1000	1 l	
7041.2500	2.5 l	4
7041.2500PE	2.5 l HDPE	4
7041.9010	10 l	
7041.9025	25 l	
7041.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Stored at a temperature of 15°C to 25°C.

Stored in an airtight container.

Stored protected from light.

Formaldehyde solution

3859 38% (w/v) / HISTO GRADE / Fixative for Histology

▶ CH₂O

M = 30.03 g/mol

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 000

EC INDEX NO. 605 001 00 5

UN/ID NO. 2209

ADR/RID 8 C9

IMDG 8/III

H: H311-H331-H370-H351-H314-
H302-H317P: P260-P303+P361+P353-
P305+P351+P338-P310-
P361-P405

Danger

Formaldehyde (HCHO)(after dilution)	36 - 40 g/l
pH at 25°C (after dilution)	6.8 - 7.2
Total Phosphate	max. 150 mM

PRODUCT NO.	PACKING	CONT. BOX
3859.5000	5 l HDPE	
3859.9010	10 l Jerrycan	

Store at room temperature (18-30°C).Cooling down formaldehyde solution below 18°C may cause irreversible polymerisation.

Formaldehyde solution

3858 19% (w/v) / HISTO GRADE / Fixative for Histology

▶ HCHO

M = 30.03 g/mol

1 l = 1.04 kg

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 000

EC INDEX NO. 605 001 00 5

H: H351-H371-H302-H312-H332-
H315-H319-H317P: P260-P261-P280-P281-
P305+P351+P338-P405

Warning

Formaldehyde (HCHO)(after dilution)	38 - 42 g/l
pH at 25°C (after dilution)	6.8 - 7.2
Sodium (Na)	61 - 71 mmol/l

PRODUCT NO.	PACKING	CONT. BOX
3858.9020	20 L jerrycan	

Store at room temperature (18-30°C).Cooling down formaldehyde solution below 18°C may cause irreversible polymerisation.

Formalin Neutralizer

HISTO GRADE

3934

EINECS 231-673-0
NC CODE 2832 10 000
H: EUH031-H302-H318
P: P264-P270-P280-P301+P312-P305+P351+P338-P310



Danger

Contains:
 Sodium Disulfite min. 80%

PRODUCT NO.	PACKING	CONT. BOX
3934.5000	5 kg Plastic Pail	

Tested by an independent Sterlab Qualified environmental laboratory.

Formalin solution

See Formaldehyde solution

Formalin solution

13% (v/v) / 'BAKER'

7390

► HCHO Formaldehyde (HCHO) 49-53 g/l
 M = 30.03 g/mol pH at 25°C 6.8-7.2

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 000

EC INDEX NO. 605 001 00 5

H: H351-H315-H319-H317-H335+H336

P: P261-P280-P281-P305+P351+P338-P362-P405



Warning

PRODUCT NO.	PACKING	CONT. BOX
7390.9010	10 l Polycube	

(4.0 g/l Sodium Dihydrogen Phosphate, 6.5 g/l Sodium Monohydrogen Phosphate and 130 ml/l Formaldehyde sol. (37-38%) in Water).

Formalin solution

10% (v/v) neutralised / 'BAKER'

7385

EINECS 200-001-8 Formaldehyde (HCHO) 38-42 g/l
NC CODE 2912 11 000 pH at 25°C 6.8-7.2

H: H351-H317

P: P261-P280-P281-P363-P308+P313-P405



Warning

PRODUCT NO.	PACKING	CONT. BOX
7385.1000	1 l	6
7385.5000	5 l Polycube	
7385.9010PC	10 l Polycube	
7385.9020	20 l Polycube	

This solution is phosphate buffered at 40 mmol/l.

Formalin solution

10% (v/v) [=4% (w/v)] neutralized / HISTO GRADE / Fixative for Histology

3933

► HCHO Formaldehyde (HCHO) 38-42 g/l
 M = 30.03 g/mol pH at 25°C 6.8-7.2

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 000

EC INDEX NO. 605 001 00 5

H: H351-H317

P: P261-P280-P281-P363-P308+P313-P405



Warning

PRODUCT NO.	PACKING	CONT. BOX
3933.1000	1 l HDPE	
3933.5000PC	5 l Polycube	
3933.9010	10 l Polycube	
3933.9010PE	10 l Jerrycan	
3933.9020	20 l Polycube	
3933.9020PE	20 l Jerrycan	

This solution is phosphate buffered at 40 mmol/l.

Formalin solution

7424

10% (w/v) neutralized / 'BAKER ANALYZED' / Stabilized with Methanol

▶ HCHO

Assay

9.7-10.3 %

M = 30.03 g/mol

1 l = 1.04 kg

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 000

EC INDEX NO. 605 001 00 5

H: H351-H315-H319-H317-
H335+H336P: P261-P280-P281-
P305+P351+P338-P362-P405

Warning

PRODUCT NO.	PACKING	CONT. BOX
7424.1000	1 l	6

Store at room temperature (18-30°C). Cooling down formaldehyde solution below 18°C may cause irreversible polymerisation.

Formamide

4028

'BAKER ULTRAPURE BIOREAGENT' / For denaturing nucleic acid prior to analysis

▶ HCONH₂

Assay (by GC)

min. 99.5%

M = 45.04 g/mol

1 l = 1.13 kg

FLASHPOINT 155 °C

CAS NO. 75-12-7

EINECS 200-842-0

NC CODE 2924 19 000

H: H360D

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Color (APHA) max. 10
Conductivity, mS/cm (1:10) act. value reported
Freezing Point 2.0-3.0°C

Absorbance of a 1M Solution:

at 280 nm max. 0.1

Trace Impurities (in ppm):

Copper (Cu) max. 0.1
Iron (Fe) max. 0.5
Lead (Pb) max. 0.5
Zinc (Zn) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
4028.0100	100 ml	
4028.0500	500 ml	

Packaged under Nitrogen. Deionization of material is not required.

Formamide

7042

'BAKER ANALYZED'

▶ HCONH₂

Assay

min. 99.5 %

M = 45.04 g/mol

1 l = 1.13 kg

FLASHPOINT 155 °C

CAS NO. 75-12-7

EINECS 200-842-0

NC CODE 2924 19 000

EC INDEX NO. 616 052 00 8

H: H360D

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Color (APHA) max. 25
Density (g/ml) at 20°C 1.130-1.135
Freezing Point 2 - 3°C
Heavy Metals (as Pb) max. 0.001%
Iron (Fe) max. 0.001%
Residue after Ignition max. 0.05%
Water (H₂O) max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
7042.1000	1 l	6
7042.1000PE	1 l HDPE	
7042.9025	25 l	
7042.9200	200 l	

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AVANTOR
PERFORMANCE MATERIALS

Formic Acid

99% / BAKER ANALYZED LC-MS Reagent

9820

▶ HCOOH

M = 46.03 g/mol

1 l = 1.22 kg

FLASHPOINT 69 °C

CAS NO. 64-18-6

EINECS 200-579-1

NC CODE 2915 11 000

EC INDEX NO. 607 001 00 0

UN/ID NO. 1779

ADR/RID 8 C3

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay

min. 99%

Residue after Evaporation

max. 20 ppm

LC-Gradient with Diode Array Detection (a.u.),

0.1% (v/v) aqueous solution:

at 220 nm max. 0.002

at 254 nm max. 0.002

LC-MS Gradient Suitability Test (TIC,

100 to 2000 m/z), 0.1% (v/v) aqueous solution:

Positive ESI-MS Sensitive Impurities (as

Reserpine) max. 50 ppb

Product Information (not specifications):

Density (g/ml) at 20°C 1.22

Trace Impurities (in ppb), 0.1% (v/v) aqueous solution:

Aluminium (Al) max. 50

Calcium (Ca) max. 50

Iron (Fe) max. 50

Magnesium (Mg) max. 50

Potassium (K) max. 50

Sodium (Na) max. 50

Ultraviolet Absorbance, 0.1% (v/v) aqueous solution

(1.00-path vs water):

at 240 nm max. 0.1

at 260 nm max. 0.01

PRODUCT

PACKING

CONT.

NO.

BOX

9820.0002AM 1 ml Amp. x 2

9820.0010AM 1 ml Amp. x 10

Formic Acid

98% / 'BAKER ANALYZED'

6037

▶ HCOOH

M = 46.03 g/mol

1 l = 1.22 kg

FLASHPOINT 69 °C

CAS NO. 64-18-6

EINECS 200-579-1

NC CODE 2915 11 000

EC INDEX NO. 607 001 00 0

UN/ID NO. 1779

ADR/RID 8 C3

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay

min. 98%

Acetic Acid (CH₃COOH)

max. 0.4%

Ammonium (NH₄)

max. 0.005%

Chloride (Cl)

max. 0.001%

Color (APHA)

max. 15

Heavy Metals (as Pb)

max. 0.001%

Iron (Fe)

max. 0.001%

Residue after Evaporation

max. 0.003%

Sulfate (SO₄)

max. 0.003%

Sulfite (SO₃)

passes test

PRODUCT

PACKING

CONT.

NO.

BOX

6037.1000 1 l

6

6037.2500 2.5 l

Stored at a temperature of 15°C to 25°C.

A NEW GENERATION
OF DISCOVERY.See the whole story online at www.avantormaterials.comAVANTOR™
PERFORMANCE MATERIALSA
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Formic Acid

8699 90% (PCS 7) / 'BAKER PCS'

▶ HCOOH

M = 46.03 g/mol

1 l = 1.19 kg

FLASHPOINT 69 °C

CAS NO. 64-18-6

EINECS 200-579-1

NC CODE 2915 11 000

EC INDEX NO. 607 001 00 0

UN/ID NO. 1779

ADR/RID 8 C3

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	89.8-91.5%
Clarity	passes test
Color (APHA)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
8699.0500	500 ml	6

Polymer Characterization Solvent.

Formic Acid

6166 90% / 'BAKER ANALYZED'

▶ HCOOH

M = 46.03 g/mol

1 l = 1.19 kg

FLASHPOINT 69 °C

CAS NO. 64-18-6

EINECS 200-579-1

NC CODE 2915 11 000

EC INDEX NO. 607 001 00 0

UN/ID NO. 1779

ADR/RID 8 C3

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	89.5-90.5%

PRODUCT NO.	PACKING	CONT. BOX
6166.9025	25 l	

Formic Acid

0128-01 88% / 'BAKER ANALYZED' / ACS

FLASHPOINT 50 °C

CAS NO. 64-18-6

NC CODE 2915 11 000

UN/ID NO. 1779

ADR/RID 8CF1

IMDG 1779/II

H: H226-H314

P: P210-P241-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs

Assay	min. 88.0%
Acetic Acid (CH ₃ COOH)	max. 0.4%
Ammonium (NH ₄)	max. 0.005%
Color (APHA)	max. 15
Dilution Test	passes test
Residue after Evaporation	max. 0.002%
Sulfates (as SO ₄)	max. 0.002%
Sulfite (SO ₃)	passes test

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0128-01	500 ml Glass	

Formic Acid

0.1% / BAKER ANALYZED LC-MS Reagent

9826

▶ HCOOH

M = 46.03 g/mol

1 l = 1.0 kg

NC CODE 2915 11 000

Assay 0.1 ± 0.005% (v/v)

Residue after Evaporation max. 5 ppm

Gradient Elution Test (a.u.):

at 254 nm max. 0.002

LC-Gradient-Diode Array Detection (a.u.):

at 220 nm max. 0.002

LC-Gradient-MS Suitability Test (TIC, 100 to 2000 m/z)

Positive ESI-MS Sensitive Impurities (as Reserpine) max. 50 ppb

Physical Data (not specifications):

Density (g/ml) at 20°C 1.01

Trace Impurities (in ppb):

Aluminium (Al) max. 50

Calcium (Ca) max. 50

Iron (Fe) max. 50

Magnesium (Mg) max. 50

Potassium (K) max. 50

Sodium (Na) max. 50

Ultraviolet Absorbance (1.00-cm path vs water):

at 240 nm max. 0.1

at 260 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9826.1000GL	1 l Glass	6
9826.2500GL	2.5 l Glass	4

Element concentrations are at time of lot release.

Formic Acid in Acetonitrile

0.1% / BAKER ANALYZED LC-MS Reagent

9824

1 l = 0.78 kg

FLASHPOINT 5 °C

NC CODE 2926 90 950

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

H: H225-H312-H332-H319

P: P210-P241-P261-P280-

P303+P361+P353-

P305+P351+P338



Danger

Assay 0.1 ± 0.005% (v/v)

Residue after Evaporation max. 5 ppm

Water (H₂O) max. 0.02%

LC-Gradient-Diode Array Detection (a.u.):

at 220 nm max. 0.002

at 254 nm max. 0.002

LC-Gradient-MS Suitability Test (TIC, 100 to 2000 m/z)

Positive ESI-MS Sensitive Impurities (as Reserpine) max. 50 ppb

Physical Data (not specifications):

Density (g/ml) at 20°C 0.78

Trace Impurities (in ppb):

Aluminium (Al) max. 50

Calcium (Ca) max. 50

Iron (Fe) max. 50

Magnesium (Mg) max. 50

Potassium (K) max. 50

Sodium (Na) max. 50

Ultraviolet Absorbance (1.00-cm path vs water):

at 260 nm max. 0.1

at 280 nm max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
9824.1000GL	1 l Glass	6
9824.2500GL	2.5 l Glass	4

Element concentrations are at time of lot release.

D-Fructopyranose

See Fructose

D(-)Fructose

'BAKER'

1563

▶ OCH₂(CHOH)₃COHCH₂OH

M = 180.16 g/mol

CAS NO. 57-48-7

EINECS 200-333-3

NC CODE 1702 50 000

Lead (Pb) max. 0.001%

Loss on Drying max. 0.5%

Residue after Ignition max. 0.05%

Specific Rotation [α]_D²⁰ (c=10 in H₂O) -91 - -93°

Trace Impurities (in ppm):

Arsenic (As) max. 1

PRODUCT NO.	PACKING	CONT. BOX
1563.0500	500 g	

Fuchsin or Fuchsin S

See Acid Fuchsin

Gallium 1000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5714

▶ Ga

M = 69.72 g/mol

NC CODE 3822 00 000

H: 36/38

P: 26-37

Gallium (Ga) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5714.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Gallium 10000 µg/ml

5758 (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Ga

Gallium (Ga)

9980-10020 µg/ml

M = 69.72 g/mol

NC CODE 3822 00 000

H: 36/38

P: 26-37

PRODUCT NO.	PACKING	CONT. BOX
5758.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.



Gallotannic Acid

See Tannin



Gentian Violet

See Crystal Violet

Germanium 1000 µg/ml

5762 (Matrix: H₂O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Ge

Germanium (Ge)

998-1002 µg/ml

M = 72.61 g/mol

NC CODE 3822 00 000

H: 20/21/22-36

P: 26-36/37

PRODUCT NO.	PACKING	CONT. BOX
5762.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Germanium 10000 µg/ml

5759 1.00% (w/v) / (Matrix: H₂O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Ge

Germanium (Ge)

9980-10020 µg/ml

M = 72.61 g/mol

NC CODE 3822 00 000

H: 20/21/22-36

P: 26-36/37

PRODUCT NO.	PACKING	CONT. BOX
5759.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

3856

Giemsa

HEMATOLOGY/CYTOLOGY/HISTOLOGY

1 l = 0.79 kg

FLASHPOINT 11 °C

NC CODE 3822 00 000

UN/ID NO. 1992

ADR/RID 3 FT1

IMDG 3/II

H: H225-H311-H331-H370

P: P210-P241-P260-

P303+P361+P353-P361-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
3856.0500	500 ml Glass	
3856.1000	1 l Glass	
3856.2500	2.5 l Glass	
3856.9180ST	180 l Steel Drum	



Gill II Hematoxyline

See Hematoxyline (Papanicolaou 1)

Glucitol
See Sorbitol**D(+)-Glucose Anhydrous**
'BAKER ANALYZED' / ACS

0115

▶ $\text{HOCH}_2\text{CH}(\text{CHOH})_4\text{O}$
M = 180.16 g/mol
CAS NO. 50-99-7
EINECS 200-075-1
NC CODE 1702 30 510

Exceeds ACS Specifications

Chloride (Cl)	max. 0.01%
Insoluble Matter	max. 0.005%
Loss on Drying at 105°C	max. 0.2%
Residue after Ignition	max. 0.015%
Specific Rotation $[\alpha]_D^{25}$	+52.5–+53.0°
Starch	passes test
Sulfate and Sulfite (as SO_4)	max. 0.005%
Titrate Acid	max. 0.002 meq/g

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0115.0250	250 g	6
0115.1000	1 kg	6

D(+)-Glucose Anhydrous Ultrex
See Dextrose, Anhydrous**D(+)-Glucose Monohydrate**
'BAKER ANALYZED'

0113

▶ $\text{HOCH}_2\text{CH}(\text{CHOH})_4\text{O} \cdot \text{H}_2\text{O}$
M = 198.17 g/mol
CAS NO. 50-99-7
EINECS 200-075-1
NC CODE 1702 30 510

Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Residue after Ignition	max. 0.015%
Starch	passes test
Sulfate and Sulfite (as SO_4)	max. 0.005%

Trace Impurities (in ppm):

Arsenic (As)	max. 0.2
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0113.1000	1 kg	6
0113.9050	50 kg	

Glycerol

anhydrous / 'BAKER ULTRAPURE BIOREAGENT' / For Enzyme stabilization, Freezing and Electrophoresis Buffers

4043

▶ $\text{HOCH}_2\text{CHOHCH}_2\text{OH}$
M = 92.10 g/mol
1 l = 1.23 kg
FLASHPOINT 160 °C
CAS NO. 56-81-5
EINECS 200-289-5
NC CODE 1520 00 000

Assay	min. 99.5%
Color (APHA)	max. 10
DNase Activity	none detected
Fatty Acid Esters (as Butyric Acid)	max. 0.05%
Protease Activity	none detected
Residue after Ignition	max. 0.005%
RNase Activity	none detected

Absorbance of a 1M Solution:

at 280 nm	max. 0.05

Trace Impurities (in ppm):

Iron (Fe)	max. 5
Lead (Pb)	max. 2
Mercury (Hg)	max. 10
Zinc (Zn)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
4043.0500	500 ml	
4043.4000	4 l Glass	

Vegetable Based

Glycerol

'BAKER ANALYZED'

7044

▶ $\text{HOCH}_2\text{CHOHCH}_2\text{OH}$
M = 92.10 g/mol
1 l = 1.26 kg
FLASHPOINT 160 °C
CAS NO. 56-81-5
EINECS 200-289-5
NC CODE 1520 00 000

Assay	min. 99.5%
Color	passes test
Density (g/ml) at 25°C	min. 1.255
Fatty Acid Esters	max. 0.05%
Neutrality	passes test
Residue after Ignition	max. 0.005%
Silver Reducing Substances	passes test
Substances Darkened by H_2SO_4	passes test
Sulfate (SO_4)	max. 0.001%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
7044.2500	2.5 l	4
7044.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Glycine

4059

'BAKER ULTRAPURE BIOREAGENT' / For Electrophoresis, Liquid Chromatography and Molecular Biology

▶ NH₂CH₂COOH

M = 75.07 g/mol

CAS NO. 56-40-6

EINECS 200-272-2

NC CODE 2922 49 100

Assay (dried basis, by non-aqueous acid-base titration)	min. 99.5%
Arsenic (As)	max. 3 ppm
DNase Activity	none detected
Heavy Metals (as Pb)	max. 5 ppm
Homogeneity (by TLC)	no extraneous spots
Iron (Fe)	max. 0.003%
Loss on Drying at 105°C	max. 0.2%
Protease Activity	none detected
Readily Carbonisable Substances	passes test
Residue after Ignition	max. 0.1%
RNase Activity	none detected
Absorbance of a 1M Solution:	
at 280 nm	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
4059.0250	250 g	
4059.1000	1 kg	
4059.5000	5 kg	

Glycine

1504

'BAKER ANALYZED' Biochemical

▶ NH₂CH₂COOH

M = 75.07 g/mol

CAS NO. 56-40-6

EINECS 200-272-2

NC CODE 2922 49 100

Assay (by Perchloric Acid titrn.)	min. 99%
Heavy Metals (as Pb)	max. 0.002%
Homogeneity (by TLC)	passes test
Loss on Drying at 105°C	max. 0.2%
Readily Carbonisable Substances	passes test
Residue after Ignition	max. 0.1%
Trace Impurities (in ppm):	
Arsenic (As)	max. 3
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1504.0100	100 g	
1504.0500	500 g	6

Glycine

1933

'BAKER'

▶ NH₂CH₂COOH

M = 75.07 g/mol

CAS NO. 56-40-6

EINECS 200-272-2

NC CODE 2922 49 100

Assay	98.5-101.5%
Appearance	passes test
Chloride (Cl)	max. 0.007%
Heavy Metals (as Pb)	max. 0.002%
Hydrolyzable substances	passes test
Identification	passes test
Loss on Drying at 105°C	max. 0.2%
Organic Volatile Impurities	passes test
pH of 5% Solution at 20°C	5.9-6.4
Residue after Ignition	max. 0.1%
Sulfate (SO ₄)	max. 0.0065%

PRODUCT NO.	PACKING	CONT. BOX
1933.1000	1 kg	

▶ **Glycocoll**
See Glycine▶ **Glycol**
See Ethylene Glycol▶ **Glyoxaline**
See Imidazole

Gold 1000 µg/ml

5763

(Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Au

M = 196.97 g/mol

NC CODE 3822 00 000

Gold (Au)	998-1002 µg/ml)

PRODUCT NO.	PACKING	CONT. BOX
5763.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Gold 1000 µg/ml

(Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6952

▶ Au

Gold (Au)

998-1002 µg/ml

M = 196.97 g/mol
NC CODE 3822 00 000
H: EUH210

PRODUCT NO.	PACKING	CONT. BOX
6952.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Gold 10000 µg/ml

(Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5730

▶ Au

Gold (Au)

9980-10020 µg/ml

M = 196.97 g/mol
NC CODE 3822 00 000

PRODUCT NO.	PACKING	CONT. BOX
5730.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Harris Hematoxyline

See Hematoxyline (Papanicolaou 1)

**Hematoxyline**

Histology

3870

NC CODE 3822 00 000
UN/ID NO. 2810
ADR/RID 6.1 T1
IMDG 6.1/III
H: 22
P: 36-

Hematoxyline Solution according to Mayer for use in HE Staining

PRODUCT NO.	PACKING	CONT. BOX
3870.1000	1 l Glass	
3870.2500	2.5 l Glass	
3870.9200	200 l HDPE	

Hematoxyline (Papanicolaou 1)

Histology - Cytology

3873

NC CODE 3822 00 000
H: H318
P: P280-P305+P351+P338-P310

Hematoxyline (Papanicolaou I), modified to match Gill II and Harris



Danger

PRODUCT NO.	PACKING	CONT. BOX
3873.1000	1 l Glass	
3873.2500	2.5 l Glass	
3873.9200	200 l HDPE	

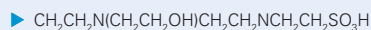
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HEPES

HEPES

4018 'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology Buffers



M = 238.31 g/mol

CAS NO. 7365-45-9

EINECS 230-907-9

NC CODE 2933 59 950

Assay	min. 99%
Appearance	passes test
Ash (sulfated)	max. 0.2%
DNase Activity	none detected
pH of 5% Solution at 25°C	5.0-6.5
pKa at 20°C	act. value reported
Protease Activity	none detected
RNase Activity	none detected

Absorbance of a 0.1M Solution (1-cm path vs water):

at 260 nm	max. 0.05
at 280 nm	max. 0.05

Trace Impurities (in ppm):

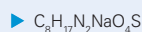
Arsenic and Antimony (as As)	max. 0.05
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4018.0100	100 g	
4018.0500	500 g	
4018.5000	5 kg	

Ref. Good, N., et al. (1966). Biochemistry, 5:467

HEPES sodium salt

4153 'BAKER ULTRAPURE BIOREAGENT'



M = 260.29 g/mol

CAS NO. 75277-39-3

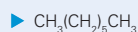
NC CODE 2933 59 950

Assay (dried basis)	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 1 ppm
Identification (Sodium)	passes test
Insoluble Matter	max. 1.0%
Loss on Drying at 80°C	max. 3.0%
pKa at 20°C	act. value reported
Protease Activity	none detected
RNase Activity	none detected
Solubility	passes test

PRODUCT NO.	PACKING	CONT. BOX
4153.1000	1 kg	

n-Heptane

9338 99% n-Heptane / 'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis



M = 100.21 g/mol

1 l = 0.68 kg

FLASHPOINT -4 °C

CAS NO. 142-82-5

EINECS 205-563-8

NC CODE 2901 10 000

EC INDEX NO. 601 008 00 2

UN/ID NO. 1206

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-

H400-H410

P: P210-P241-P301+P310-

P303+P361+P353-P405-P501a



Danger

Assay (by GC) (corrected for water)	min. 99.0%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by H_2SO_4	passes test
Water (by KF, coulometric)	max. 100 ppm

Neat solvent front characterization: ECD-Sensitive**Impurities (as Ethylene Dibromide):**

Single Impurities (ng/ml)	max. 5

Trace Organic Residues:

ECD-Sensitive Impurities (as Heptachlor Epoxide)	
Single Impurity Peak (pg/ml)	max. 10
FID-Sensitive Impurities (as 2-Octanol) Single	
Impurity Peak (ng/ml)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9338.1000	1 l	
9338.4000	4 l Glass	4



A NEW GENERATION OF DISCOVERY.

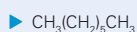
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AVANTOR™
PERFORMANCE MATERIALS

n-Heptane

99% n-Heptane / 'BAKER HPLC ANALYZED' / For Use in Liquid Chromatography and Spectrophotometry

9177



M = 100.21 g/mol

1 l = 0.68 kg

FLASHPOINT -4 °C

CAS NO. 142-82-5

EINECS 205-563-8

NC CODE 2901 10 000

EC INDEX NO. 601 008 00 2

UN/ID NO. 1206

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H400-H410P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Assay (by GC) (corrected for water)	min. 99.0%
Density (g/ml) at 20°C	0.684
Residue after Evaporation	max. 2 ppm
Substances Darkened by H_2SO_4	passes test
Water (by KF, coulometric)	max. 0.01%

Fluorescence Trace Impurities (as quinine base), ppb:

at 450 nm Emission	max. 0.2
at Emission Maximum for Impurities	max. 1.0

Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm	max. 0.40
at 220 nm	max. 0.10
at 254-400 nm	max. 0.01
UV Cut-off, nm	max. 197

PRODUCT NO.	PACKING	CONT. BOX
9177.1000	1 l	
9177.2500	2.5 l	4

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

n-Heptane

99% n-Heptane / 'BAKER ANALYZED'

8110



M = 100.21 g/mol

1 l = 0.68 kg

FLASHPOINT -4 °C

CAS NO. 142-82-5

EINECS 205-563-8

NC CODE 2901 10 000

EC INDEX NO. 601 008 00 2

UN/ID NO. 1206

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H400-H410P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Assay (by GC)	min. 99%
Boiling Range	97.5-99°C
Color (APHA)	max. 10
Recorded Boiling Point	98.4°C
Residue after Evaporation	max. 0.001%
Total Sulfur Compounds (as S)	max. 0.005%
Water (H_2O)	max. 0.01%

Physical Data (not specifications):

Density (g/ml) at 20°C	0.683-0.684

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8110.1000	1 l	
8110.2500	2.5 l	4
8110.9025	25 l	
8110.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

A NEW GENERATION OF DISCOVERY.

See the whole story online at www.avantormaterials.com

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n-Heptane

8111 94-99°C / 'BAKER'

▶ $\text{CH}_3(\text{CH}_2)_5\text{CH}_3$
M = 100.21 g/mol
1 l = 0.68 kg
FLASHPOINT -4 °C
CAS NO. 142-82-5
EINECS 205-563-8
NC CODE 2901 10 000
EC INDEX NO. 601 008 00 2
UN/ID NO. 1206
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H400-H410
P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Boiling Range 94-99°C

PRODUCT NO.	PACKING	CONT. BOX
8111.1000	1 l	
8111.5000	5 l EcoTainer	
8111.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

1-Heptanesulfonic Acid Sodium Salt

2173 'BAKER HPLC ANALYZED' / For Ion-Pair Chromatography of Basic Compounds

▶ $\text{CH}_3(\text{CH}_2)_6\text{SO}_3\text{Na}$
M = 220.26 g/mol
CAS NO. 22767-50-6
EINECS 245-210-5
NC CODE 2904 10 000

Assay (acidimetric)	min. 98.0%
UV Absorbance of 0.25M Solution:	
at 200 nm	max. 0.2
at 210 nm	max. 0.08
at 220 nm	max. 0.06
at 230 nm	max. 0.05
at 240 nm	max. 0.05
at 250 nm	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
2173.0025	25 g Glass	

Hexachloroplatinum(IV) Acid Hexahydrate

See Chloroplatinic Acid Hexahydrate

n-Hexadecane

7194 'BAKER'

▶ $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$
M = 226.45 g/mol
1 l = 0.77 kg
FLASHPOINT 135 °C
CAS NO. 544-76-3
EINECS 208-878-9
NC CODE 2901 10 000
H: H304
P: P301+P310-P331-P405-P501a



Danger

Assay (by GC) min. 99%
Freezing Point 18-19°C

PRODUCT NO.	PACKING	CONT. BOX
7194.0250	250 ml	6

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Hexamethylenetetramine

'BAKER ANALYZED'

N145-07



M = 140.19 g/mol

CAS NO. 100-97-0

EINECS 202-905-8

NC CODE 2933 69 200

EC INDEX NO. 612 101 00 2

UN/ID NO. 1328

ADR/RID 4.1 F1

IMDG 4.1/III

H: H228-H317

P: P210-P240-P241-P261-P280-P501a



Warning

Meets ACS Specifications

Assay (dried basis)	min. 99.0%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Loss on Drying	max. 2.0%
Residue after Ignition	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
N145-07	500 g HDPE	

Hexamethyl-p-rosanilinium Chloride

See Crystal Violet

Hexamine

See Hexamethylenetetramine

iso-Hexane

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

9305



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT -23 °C

CAS NO. 64742-49-0

NC CODE 2901 10 000

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H304-H340-H350

P: P201-P281-P301+P310-P308+P313-P331-P405



Danger

Assay (as C ₆ H ₁₄ isomers)	min. 95%
n-Hexane	max. 3%
Residue after Evaporation	max. 0.0005%
Substances Darkened by H ₂ SO ₄	passes test
Water (H ₂ O)	max. 0.01%

Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm	max. 0.2
at 220 nm	max. 0.08
at 254 nm	max. 0.008
at 280 nm	max. 0.005
at 350 nm	max. 0.005
UV Cut-off, nm	max. 192

PRODUCT NO.	PACKING	CONT. BOX
9305.2500	2.5 l	4

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

iso-Hexane

'BAKER ANALYZED' / For Hydrocarbon Oil Index determination

9267



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT -23 °C

CAS NO. 64742-49-0

NC CODE 2901 10 000

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H304-H340-H350

P: P201-P281-P301+P310-P308+P313-P331-P405



Danger

Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Water (H ₂ O)	max. 0.01%

Hydrocarbon Oil Index Concentration (as RIVM oil reference standard):

Total peaks between n-decane (C ₁₀ H ₂₂) and n-tetracontane (C ₄₀ H ₈₂)	max. 0.5 mg/l

PRODUCT NO.	PACKING	CONT. BOX
9267.1000	1 l	
9267.2500	2.5 l	

Suitable for determination of Hydrocarbon Oil Index according to ISO 9377-2.

Hexane

9277

BakerDRY / Low Water Solvent / ACS



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT <-23 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 000

EC INDEX NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H361f-H373-H411

P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Meets ACS Specifications

Assay (C_6H_{14})(by GC)(total isomers)	min. 98.5%
Color (APHA)	max. 10
Residue after Evaporation	max. 2 ppm
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water (by KF, coulometric)	max. 20 ppm
Water Soluble Titrable Acid (meq/g)	max. 0.0003

Product Information (not specifications):

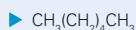
Boiling Point (typical)	68.7°C
Density (g/ml) at 25°C	0.663

PRODUCT NO.	PACKING	CONT. BOX
9277.1000	1 l	

Hexane

8668

99% n-Hexane / 'BAKER ANALYZED'



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT <-23 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 000

EC INDEX NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H361f-H373-H411

P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Assay (by GC)	min. 99%
Aromatic Compounds (as C_6H_6)	max. 0.02%
Boiling Range	max. 2°C
Density (g/ml) at 25°C	max. 0.657
Recorded Boiling Point	68.7°C
Residue after Evaporation	max. 5 ppm
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water (H_2O)	max. 0.02%
Water Soluble Titrable Acid (meq/g)	max. 0.0003

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02

Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

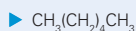
PRODUCT NO.	PACKING	CONT. BOX
8668.1000	1 l	6
8668.2500	2.5 l	4
8668.5000	5 l EcoTainer	
8668.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.
For safe handling of 25 l tin cans, see Self-closing tap.

Hexane

8205

99% n-Hexane / 'BAKER ANALYZED' / GC-Spectrophotometric quality / ACS



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT -23 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 000

EC INDEX NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H361f-H373-H411

P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Exceeds ACS Specifications

Assay (n-hexane)	min. 99%
Assay (sum of 5 isomers, total hexanes plus methylcyclopentane)	min. 99%
Aromatic Compounds (as C_6H_6)	max. 0.02%
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water Soluble Titrable Acid (meq/g)	max. 0.0002

Ultraviolet Absorbance, (1.00-cm path vs water)
(curve smooth throughout stated range with no extraneous impurity peaks):

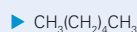
at 210 nm	max. 1.00
at 220 nm	max. 0.20
at 230 nm	max. 0.10
at 240 nm	max. 0.04
at 250 nm	max. 0.02
at 280-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8205.1000	1 l	

Hexane

95% n-Hexane / 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

9304



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT -23 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 000

EC INDEX NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H361f-H373-H411

P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Assay (by GC)	min. 95%
Residue after Evaporation	max. 2 ppm
Substances Darkened by H_2SO_4	passes test
Water (H_2O)	max. 0.01 %

Ultraviolet Absorbance, (1.00-cm path vs water)

(curve smooth throughout stated range with no extraneous impurity peaks):

at 210 nm	max. 0.2
at 220 nm	max. 0.08
at 254 nm	max. 0.008
at 280 nm	max. 0.005
at 350 nm	max. 0.005
UV Cut-off, nm	max. 192

PRODUCT NO.	PACKING	CONT. BOX
9304.1000	1 l	6
9304.2500	2.5 l	4
9304.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

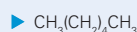
Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Hexane

95% n-Hexane / 'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

9262



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT <-20 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 000

EC INDEX NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H361f-H373-H411

P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Assay (total saturated C_6 isomers)(by GC, corrected for water)	min. 99.5%
Color (APHA)	max. 10
n-Hexane (by GC) (corrected for water)	min. 95%
Residue after Evaporation	max. 1 ppm
Substances Darkened by H_2SO_4	passes test
Water (H_2O) (by Coulometry)	max. 0.05%

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml)	max. 10

FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml)	max. 5

Neat solvent front characterization: ECD-Sensitive**Impurities (as Ethylene Dibromide):**

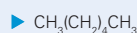
Single Impurities (ng/ml)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9262.1000	1 l	6
9262.2500	2.5 l	4

Hexane

95% n-Hexane / 'BAKER ANALYZED'

8044



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT -23 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 000

EC INDEX NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H361f-H373-H411

P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Assay (by GC)	min. 95%
Aromatic Compounds (as C_6H_6)	max. 0.02%
Color (APHA)	max. 10
Density (g/ml) at 25°C	max. 0.657
Residue after Evaporation	max. 0.001 %
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water Soluble Titrable Acid (meq/g)	max. 0.0003

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1

Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8044.1000	1 l	6
8044.2500	2.5 l	4
8044.5000	5 l EcoTainer	4
8044.9025	25 l	
8044.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

Hexane

8669 95% n-Hexane / 'BAKER'

▶	CH ₃ (CH ₂) ₄ CH ₃	Assay (by GC)	min. 95%
	M = 86.18 g/mol		
	1 l = 0.66 kg		
	FLASHPOINT -23 °C		
	CAS NO. 110-54-3		
	EINECS 203-777-6		
	NC CODE 2901 10 000		
	EC INDEX NO. 601 037 00 0		
	UN/ID NO. 1208		
	ADR/RID 3 F1		
	IMDG 3/II		
	H: H225-H304-H315-H336-H361f-H373-H411		
	P: P210-P241-P301+P310-P303+P361+P353-P405-P501a		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8669.9200	200 l	

1-Hexanesulfonic Acid Sodium Salt

2175 'BAKER HPLC ANALYZED' / For Ion-Pair Chromatography of Basic Compounds

▶	CH ₃ (CH ₂) ₅ SO ₃ Na	Assay (acidimetric)	min. 98.0%
	M = 188.22 g/mol	UV Absorbance of 0.25M Solution:	
	CAS NO. 2832-45-3	at 200 nm	max. 0.2
	EINECS 220-601-3	at 210 nm	max. 0.08
	NC CODE 2904 10 000	at 220 nm	max. 0.06
		at 230 nm	max. 0.05
		at 240 nm	max. 0.05
		at 250 nm	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
2175.0025	25 g Glass	

L(+)-Histidine

1603 'BAKER ANALYZED' Biochemical

▶	NHCH:NCH:CCH ₂ CH(NH ₂)COOH	Assay (dried basis)	min. 98.5%
	M = 155.16 g/mol	Arsenic (As)	max. 0.0003%
	CAS NO. 71-00-1	Ash (sulfated)	max. 0.1%
	EINECS 200-745-3	Heavy Metals (as Pb)	max. 0.002%
	NC CODE 2933 29 900	Iron (Fe)	max. 0.003%
		Loss on Drying at 105°C	max. 0.2%
		Specific Rotation [α] ²⁵ (dried basis, c=1 in 6N HCl)	+12.6° to +14.0°

PRODUCT NO.	PACKING	CONT. BOX
1603.0025	25 g Glass	

Homidium bromide

See Ethidium Bromide

Hyamine 1622

7255 0.004 mol/l / 'BAKER ANALYZED' / For determination of anionic tensides

CAS NO.	121-54-0	Titer (mol/l)	0.0039-0.0041
EINECS	204-479-9		
NC CODE	2923 90 000		

PRODUCT NO.	PACKING	CONT. BOX
7255.1000	1 l	6
7255.2500	2.5 l	

Volumetric Solution, ready for use.

HYDRA-POINT Buffer

'BAKER ANALYZED' / Buffer for stabilizing pH during Karl Fischer titration

8899

1 l =	1.0 kg	Buffer capacity	min. 5 mmol acid/ml
NC CODE	3822 00 000		
UN/ID NO.	3286		
ADR/RID	3 FTC		
IMDG	3/I		
H:	H224-H311-H331-H370-H361-H314-H302		
P:	P210-P303+P361+P353-P305+P351+P338-P310-P361-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8899.0500	500 ml	6
8899.1000	1 l	6

Contains: Imidazole, Sulfur Dioxide, Methanol.

HYDRA-POINT Composite 2

'BAKER ANALYZED' / Pyridine free one-component reagent for volumetric Karl Fischer titration

8891

1 l =	1.1 kg	To be used with HYDRA-POINT Methanol dry product no. 8898	
NC CODE	3822 00 000	Titer (mg H ₂ O/ml) ¹	min. 2.00
UN/ID NO.	1760		
ADR/RID	8 C9		
IMDG	8/III		
H:	H314-H361-H302		
P:	P260-P280-P303+P361+P353-P305+P351+P338-P310-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8891.1000	1 l	6
8891.2500	2.5 l	4

Contains: Imidazole, Iodine, Sulfur Dioxide.

HYDRA-POINT Composite 5

'BAKER ANALYZED' / Pyridine free one-component reagent for volumetric Karl Fischer titration

8890

1 l =	1.2 kg	To be used with HYDRA-POINT Methanol dry product no. 8898	
NC CODE	3822 00 000	Titer (mg H ₂ O/ml) ¹	min. 5.00
UN/ID NO.	1760		
ADR/RID	8 C9		
IMDG	8/III		
H:	H314-H361-H302		
P:	P260-P280-P303+P361+P353-P305+P351+P338-P310-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8890.1000	1 l	6
8890.2500	2.5 l	4

Contains: Imidazole, Iodine, Sulfur Dioxide.

HYDRA-POINT Composite 5K

'BAKER ANALYZED' / Pyridine free one-component reagent for volumetric Karl Fischer titration of ketones

8892

NC CODE	3822 00 000	To be used with HYDRA-POINT Methanol dry product no. 8898	
UN/ID NO.	1760	Titer (mg H ₂ O/ml)	min. 5.00
ADR/RID	8 C9		
IMDG	8/III		
H:	H314-H361-H302		
P:	P260-P280-P303+P361+P353-P305+P351+P338-P310-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8892.1000	1 l	6
8892.2500	2.5 l	4

Contains: Imidazole, Iodine, Sulfur Dioxide.

HYDRA-POINT Coulometric An

8862 'BAKER ANALYZED' / Analyte for coulometric Karl Fischer determinations with diafragm

1 l = 1.20 kg	Suitability for coulometric Karl Fischer determination	passes test
FLASHPOINT <21 °C		
NC CODE 3822 00 000		
UN/ID NO. 3286		
ADR/RID 3 FTC		
IMDG 3/II		
H: H225-H311-H370-H351-H361-H373-H314-H302-H332		
P: P210-P303+P361+P353-P305+P351+P338-P310-P361-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8862.0500	500 ml Glass	6

Contains: methanol, imidazole, sulphur dioxide, iodine, chloroform.

HYDRA-POINT Coulometric Cat

8863 'BAKER ANALYZED' / Catholyte for coulometric Karl Fischer determinations with diafragm

1 l = 0.98 kg	Suitability for coulometric Karl Fischer determination	passes test
FLASHPOINT <21 °C		
NC CODE 3822 00 000		
UN/ID NO. 3286		
ADR/RID 3 FTC		
IMDG 3/II		
H: H225-H311-H331-H370-H372-H351-H361-H314-EUH059-H302		
P: P210-P303+P361+P353-P305+P351+P338-P310-P361-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8863.0025	25 ml	6

Contains: methanol, imidazole, sulphur dioxide, diethanolamine, tetrachloromethane.

HYDRA-POINT Coulometric Gen

8860 'BAKER ANALYZED' / Halogen free reagent for coulometric Karl Fischer determinations without diafragm

1 l = 0.98 kg	Suitability for coulometric Karl Fischer determination	passes test
FLASHPOINT <21 °C		
NC CODE 3822 00 000		
UN/ID NO. 3286		
ADR/RID 3 FTC		
IMDG 3/II		
H: H225-H311-H331-H370-H361-H314-H302		
P: P210-P303+P361+P353-P305+P351+P338-P310-P361-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8860.0500	500 ml Glass	6

Contains: methanol, imidazole, sulphur dioxide, iodine, hexanol.

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PERFORMANCE MATERIALS

HYDRA-POINT Coulometric Oven

'BAKER ANALYZED' / Halogen free reagent for coulometric Karl Fischer determinations without diafragm

8861

1 l = 1.04 kg
FLASHPOINT <21 °C
NC CODE 3822 00 000
UN/ID NO. 3286
ADR/RID 3 FTC
IMDG 3/II
H: H225-H331-H370-H361-H314-H302-H312
P: P210-P241-P303+P361+P353-P305+P351+P338-P310-P405



Danger

Suitability for coulometric Karl Fischer determination passes test

PRODUCT NO.	PACKING	CONT. BOX
8861.0500	500 ml Glass	6

Contains: methanol, imidazole, sulphur dioxide, iodine, propylene glycol.

HYDRA-POINT Methanol Dry

'BAKER ANALYZED' / Dry methanol is a working medium for Karl Fischer titration

8898

► CH₃OH

M = 32.04 g/mol
1 l = 0.79 kg
FLASHPOINT 11 °C
CAS NO. 67-56-1
EINECS 200-659-6
NC CODE 3822 00 000
EC INDEX NO. 603 001 00 0
UN/ID NO. 1230
ADR/RID 3 FT1
IMDG 3/II
H: H225-H301-H311-H331-H370
P: P210-P241-P301+P310-P303+P361+P353-P361-P405



Danger

*To be used with HYDRA-POINT Composite
 2 product no. 8891 or HYDRA-POINT Composite
 5 product no. 8890*

Water (H₂O) max. 0.01 %

PRODUCT NO.	PACKING	CONT. BOX
8898.1000	1 l	6
8898.2500	2.5 l	4

HYDRA-POINT Solvent G

'BAKER ANALYZED' / Pyridine free solvent for volumetric Karl Fischer titration

8855

1 l = 0.93 kg
FLASHPOINT 11 °C
NC CODE 3822 00 000
UN/ID NO. 1992
ADR/RID 3 FT1
IMDG 3/II
H: H225-H311-H331-H370-H361-H314-H302
P: P210-P303+P361+P353-P305+P351+P338-P310-P361-P405



Danger

To be used with HYDRA-POINT Titrant 2 product no. 8845 or HYDRA-POINT Titrant 5 product no. 8844

Suitability for Karl Fischer titration passes test

PRODUCT NO.	PACKING	CONT. BOX
8855.1000	1 l	6
8855.2500	2.5 l	4

Contains: Imidazole, Sulfur Dioxide, Methanol.

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HYDRA

HYDRA-POINT Titrant 2 mg H₂O/ml

8845 'BAKER ANALYZED' / Titrant for volumetric Karl Fischer titration

FLASHPOINT 11 °C

UN/ID NO. 1992

ADR/RID 3 FT1

IMDG 3/II

H: H225-H311-H331-H370

P: P210-P241-P260-

P303+P361+P353-P361-P405



Danger

To be used with HYDRA-POINT Solvent K product no.

8840 or HYDRA-POINT Solvent G product no. 8855

Titer (mg H₂O/ml)¹ min. 2.00¹ At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
8845.1000	1 l	6
8845.2500	2.5 l	4

Contains: Methanol, Iodine.

HYDRA-POINT Titrant 5mg H₂O/ml

8844 'BAKER ANALYZED' / Titrant for volumetric Karl Fischer titration

FLASHPOINT 11 °C

NC CODE 3822 00 000

UN/ID NO. 1992

ADR/RID 3 FT1

IMDG 3/II

H: H225-H311-H331-H370

P: P210-P241-P260-

P303+P361+P353-P361-P405



Danger

To be used with HYDRA-POINT Solvent K product no.

8840 or HYDRA-POINT Solvent G product no. 8855

Titer (mg H₂O/ml)¹ min. 5.00¹ At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
8844.1000	1 l	6
8844.2500	2.5 l	4

Contains: Methanol, Iodine.

Hydrobromic Acid

6010 47-49% / 'BAKER ANALYZED' / ACS

► HBr

M = 80.92 g/mol

1 l = 1.49 kg

CAS NO. 10035-10-6

EINECS 233-113-0

NC CODE 2811 19 100

EC INDEX NO. 35 002 01 8

UN/ID NO. 1788

ADR/RID 8 C1

IMDG 8/II

H: H314-H335

P: P260-P261-P303+P361+P353-

P305+P351+P338-P310-P405



Danger

Exceeds ACS Specifications

Assay	47.0-49.0%
Chloride (Cl)	max. 0.05%
Iodide (I)	max. 0.003%
Phosphate (PO ₄)	max. 0.001%
Residue after Ignition	max. 0.002%
Sulfate and Sulfite (as SO ₄)	max. 0.003%

Trace Impurities (in ppm):

Arsenic (As)	max. 0.5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 1
Selenium (Se)	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
6010.1000	1 l	

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AVANTOR™

PERFORMANCE MATERIALS

Hydrochloric Acid

37-38% (max. 5 ppb Hg) / 'BAKER ANALYZED'

6081

► HCl

M = 36.46 g/mol

1 l = 1.19 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	37-38%
Ammonium (NH ₄)	max. 3 ppm
Free Chlorine	max. 0.5 ppm
Mercury (Hg)	max. 5 ppb
Residue after Ignition	max. 5 ppm
Sulfate (SO ₄)	max. 1 ppm
Sulfite (SO ₃)	max. 2 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.05
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.1
Iron (Fe)	max. 0.2
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.05
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.3
Strontium (Sr)	max. 0.01

Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.05
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.5
Zirconium (Zr)	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
6081.1000	1 l	6
6081.2500	2.5 l	4
6081.2500PE	2.5 l HDPE	4
6081.9025	25 l	
6081.9200	200 l	

Hydrochloric Acid

37% / 'BAKER ANALYZED' / ACS

6011

► HCl

M = 36.46 g/mol

1 l = 1.19 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay	36.5-38.0%
Appearance	passes test
Bromide (Br)	max. 0.005%
Color (APHA)	max. 10
Extractable Organic Substances	max. 5 ppm
Free Chlorine	max. 1 ppm
Residue after Ignition	max. 3 ppm
Specific Gravity at 60°/60°F	1.185-1.192

Trace Impurities (in ppm):

Aluminium (Al)	max. 100
Arsenic and Antimony (as As)	max. 5
Boron (B)	max. 50
Calcium (Ca)	max. 200
Chromium (Cr)	max. 100
Copper (Cu)	max. 100
Gold (Au)	max. 100
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 100
Lead (Pb)	max. 50
Magnesium (Mg)	max. 300
Manganese (Mn)	max. 300
Mercury (Hg)	max. 5
Nickel (Ni)	max. 100
Potassium (K)	max. 300
Sodium (Na)	max. 300
Tin (Sn)	max. 300
Titanium (Ti)	max. 300
Zinc (Zn)	max. 100

Trace Impurities (in ppm):

Ammonium (NH ₄)	max. 3
Phosphate (as PO ₄)	max. 1
Sulfate (SO ₄)	max. 0.5
Sulfite (SO ₃)	max. 0.8

PRODUCT NO.	PACKING	CONT. BOX
6011.2500PE	2.5 l HDPE	4

Hydrochloric Acid

9530 36.5-38% / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis / ACS

► HCl

M = 36.46 g/mol

1 l = 1.19 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Meets ACS Specifications

Assay (by acid-base titration)	36.5-38.0%
Bromide (Br)	max. 0.005%
Color (APHA)	max. 10
Extractable Organic Substances	max. 5 ppm
Free Chlorine	max. 0.5 ppm
Residue after Ignition	max. 3 ppm
Specific Gravity at 60°/60°F	1.185-1.192

Product Information (not specifications):

Appearance	passes test

Trace Impurities (in ppb):

Aluminium (Al)	max. 10
Arsenic and Antimony (as As)	max. 5
Barium (Ba)	max. 1
Beryllium (Be)	max. 1
Bismuth (Bi)	max. 10
Boron (B)	max. 20
Cadmium (Cd)	max. 1
Calcium (Ca)	max. 50
Chromium (Cr)	max. 1
Cobalt (Co)	max. 1
Copper (Cu)	max. 1
Gallium (Ga)	max. 1
Germanium (Ge)	max. 3
Gold (Au)	max. 4
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 15
Lead (Pb)	max. 1
Lithium (Li)	max. 1
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 1
Mercury (Hg)	max. 0.5
Molybdenum (Mo)	max. 10
Nickel (Ni)	max. 4
Niobium (Nb)	max. 1
Potassium (K)	max. 9
Selenium (Se)	act. value reported
Silicon (Si)	max. 100
Silver (Ag)	max. 1
Sodium (Na)	max. 100
Strontium (Sr)	max. 1
Tantalum (Ta)	max. 1
Thallium (Tl)	max. 5

Tin (Sn)	max. 5
Titanium (Ti)	max. 1
Vanadium (V)	max. 1
Zinc (Zn)	max. 5
Zirconium (Zr)	max. 1

Trace Impurities (in ppm):

Ammonium (NH ₄)	max. 3
Phosphate (PO ₄)	max. 0.05
Sulfate (SO ₄)	max. 0.5
Sulfite (SO ₃)	max. 0.8

PRODUCT NO.	PACKING	CONT. BOX
9530.0500	500 ml	6
9530.2500	2.5 l	4

Hydrochloric Acid

6012 35-39% / 'BAKER'

► HCl

M = 36.46 g/mol

1 l = 1.19 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	35.0-39.0%
Appearance of solution	passes test
Free Chlorine	max. 4 ppm
Heavy Metals (as Pb)	max. 2 ppm
Identification	passes test
Residue after Evaporation	max. 0.01%
Sulfates (as SO ₄)	max. 20 ppm

PRODUCT NO.	PACKING	CONT. BOX
6012.2500	2.5 l	4
6012.2500PE	2.5 l HDPE	
6012.9025	25 l	

Hydrochloric Acid

33-36% / ULTREX II Ultrapure Reagent

6900

► HCl

M = 36.46 g/mol

1 l = 1.19 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay

33-36% (w/w)

Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 20
Antimony (Sb)	max. 20
Arsenic (As)	max. 50
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Boron (B)	max. 100
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 20
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Gold (Au)	max. 100
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 20
Lanthanum (La)	max. 1
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 50

Niobium (Nb)	max. 1
Palladium (Pd)	act. value reported
Platinum (Pt)	act. value reported
Potassium (K)	max. 10
Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Ruthenium (Ru)	max. 10
Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 10
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 20
Titanium (Ti)	max. 20
Tungsten (W)	max. 10
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6900.0500	500 ml Fluoropolymer, pre-leached	
6900.2000	2 l Fluoropolymer, pre-leached	

Hydrochloric Acid

32% / 'BAKER ANALYZED'

6070

► HCl

M = 36.46 g/mol

1 l = 1.16 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay

min. 32%

Ammonium (NH ₄)	max. 1 ppm
Free Chlorine	max. 0.5 ppm
Residue after Ignition	max. 5 ppm
Sulfate (SO ₄)	max. 1 ppm
Sulfite (SO ₃)	max. 2 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Arsenic (As)	max. 0.1
Barium (Ba)	max. 0.1
Beryllium (Be)	max. 0.1
Cadmium (Cd)	max. 0.1
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.1
Copper (Cu)	max. 0.1
Germanium (Ge)	max. 0.1
Iron (Fe)	max. 0.5
Lead (Pb)	max. 0.1
Lithium (Li)	max. 0.1
Magnesium (Mg)	max. 0.5
Manganese (Mn)	max. 0.1
Molybdenum (Mo)	max. 0.1

Nickel (Ni)	max. 0.1
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.1
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.1
Thallium (Tl)	max. 0.1
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.1
Zinc (Zn)	max. 0.5
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6070.1000	1 l	
6070.2500	2.5 l	4
6070.9025	25 l	
6070.9200	200 l	

Hydrochloric Acid

9600

30% / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis

► HCl

M = 36.46 g/mol

1 l = 1.19 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay 29-31%
Color max. 10 Hazen

Trace Impurities:

Aluminium (Al)	max. 1 ppb
Ammonium (NH ₄)	max. 0.5 ppm
Antimony (Sb)	max. 1 ppb
Arsenic (As)	max. 1 ppb
Barium (Ba)	max. 1 ppb
Beryllium (Be)	max. 1 ppb
Bismuth (Bi)	max. 1 ppb
Boron (B)	max. 1 ppb
Bromide (Br)	max. 10 ppm
Cadmium (Cd)	max. 1 ppb
Calcium (Ca)	max. 1 ppb
Chromium (Cr)	max. 1 ppb
Cobalt (Co)	max. 1 ppb
Copper (Cu)	max. 1 ppb
Free Chlorine	max. 0.5 ppm
Gallium (Ga)	max. 1 ppb
Germanium (Ge)	max. 1 ppb
Gold (Au)	max. 1 ppb
Indium (In)	max. 1 ppb
Iron (Fe)	max. 1 ppb
Lead (Pb)	max. 1 ppb
Lithium (Li)	max. 1 ppb

Magnesium (Mg)	max. 1 ppb
Manganese (Mn)	max. 1 ppb
Mercury (Hg)	max. 1 ppb
Molybdenum (Mo)	max. 1 ppb
Nickel (Ni)	max. 1 ppb
Potassium (K)	max. 1 ppb
Selenium (Se)	max. 1 ppb
Silver (Ag)	max. 1 ppb
Sodium (Na)	max. 1 ppb
Strontium (Sr)	max. 1 ppb
Thallium (Tl)	max. 1 ppb
Thorium (Th)	max. 1 ppb
Tin (Sn)	max. 1 ppb
Titanium (Ti)	max. 1 ppb
Total Phosphorus	max. 0.01 ppm
Total Sulfur	max. 0.3 ppm
Uranium (U)	max. 1 ppb
Vanadium (V)	max. 1 ppb
Zinc (Zn)	max. 1 ppb
Zirconium (Zr)	max. 1 ppb

PRODUCT NO.	PACKING	CONT. BOX
9600.1000PE	1 l HDPE	6
HDPE bottle with dosing cap.		

Hydrochloric Acid

6167

25% / 'BAKER ANALYZED'

► HCl

M = 36.46 g/mol

1 l = 1.12 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	min. 25%
Ammonium (NH ₄)	max. 3 ppm
Free Chlorine	max. 0.5 ppm
Residue after Ignition	max. 5 ppm
Sulfate (SO ₄)	max. 1 ppm
Sulfite (SO ₃)	max. 2 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Arsenic (As)	max. 0.1
Barium (Ba)	max. 0.1
Beryllium (Be)	max. 0.1
Cadmium (Cd)	max. 0.1
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.1
Copper (Cu)	max. 0.1
Germanium (Ge)	max. 0.1
Iron (Fe)	max. 0.5
Lead (Pb)	max. 0.1

Lithium (Li)	max. 0.1
Magnesium (Mg)	max. 0.5
Manganese (Mn)	max. 0.1
Molybdenum (Mo)	max. 0.1
Nickel (Ni)	max. 0.1
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.1
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.1
Thallium (Tl)	max. 0.1
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.1
Zinc (Zn)	max. 0.5
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6167.2500	2.5 l	
6167.9025	25 l	

Hydrochloric Acid

7655

18% / 'BAKER'

M = 36.46 g/mol

1 l = 1.09 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H315-H319-H335+H336

P: P261-P280-P304+P340-
P305+P351+P338-P362-P405

Warning

Assay 18-19%

PRODUCT NO.	PACKING	CONT. BOX
7655.1000PE	1 l HDPE	6

Hydrochloric Acid

10% / 'BAKER'

7219

▶ HCl

M = 36.46 g/mol

1 l = 1.05 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

EC INDEX NO. 17 002 01 0

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/III

H: H315-H319-H335+H336

P: P261-P280-P304+P340-
P305+P351+P338-P362-P405

Warning

Assay	9.5 - 10.5%
Appearance	passes test
Free Chlorine	max. 1 ppm
Heavy Metals (as Pb)	max. 2 ppm
Identification	passes test
Residue after Evaporation	max. 0.01%
Sulfates (as SO ₄)	max. 5 ppm

PRODUCT NO.	PACKING	CONT. BOX
7219.9010	10 l Polycube	
7219.9060	60 l	

Hydrochloric Acid

5 mol/l (5N) / 'BAKER ANALYZED'

5618-02

▶ HCl

M = 36.46 g/mol

1 l = 1.08 kg

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

UN/ID NO. 1789

ADR/RID 8,5b

IMDG 8/II

H: H315-H319-H335+H336

P: P261-P280-P304+P340-
P305+P351+P338-P362-P405

Warning

Appearance	passes test
Normality (N)	4.975-5.025
SRM No.	reported on label
Trace Impurities (in ppm):	
Ammonium (NH ₄)	max. 3
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.1
Sulfate (SO ₄)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
5618-02	1 l PE	6

Volumetric Solution, ready for use.

Standardization at 25°C traceable to NIST Standard Reference Material.

Hydrochloric Acid

2 mol/l / 'BAKER ANALYZED'

7230

▶ HCl

M = 36.46 g/mol

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

H: EUH210

Titer (mol/l)	1.99-2.01

PRODUCT NO.	PACKING	CONT. BOX
7230.1000	1 l	6

Volumetric Solution, ready for use.

Hydrochloric Acid

1 mol/l / 'BAKER ANALYZED'

7088

▶ HCl

M = 36.46 g/mol

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

ADR/RID 1789

IMDG 1789/III

H: EUH210

Titer (mol/l)	0.997-1.003
Trace Impurities (in ppm):	
Ammonium (NH ₄)	max. 3
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.1
Sulfate (SO ₄)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7088.1000	1 l	6
7088.9010	10 l Polycube	
7088.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Hydrochloric Acid

7111 0.5 mol/l / 'BAKER ANALYZED'

▶ HCl

M = 36.46 g/mol
 CAS NO. 7647-01-0
 EINECS 231-595-7
 NC CODE 2806 10 000
 H: EUH210

Titer (mol/l) 0.4975-0.5025

Trace Impurities (in ppm):

Ammonium (NH₄) max. 3
 Heavy Metals (as Pb) max. 0.5
 Iron (Fe) max. 0.1
 Sulfate (SO₄) max. 1

PRODUCT NO.	PACKING	CONT. BOX
7111.1000	1 l	6
7111.9010	10 l Polycube	
7111.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each Lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Sodium Carbonate.

Hydrochloric Acid

7651 0.2 mol/l / 'BAKER ANALYZED'

▶ HCl

M = 36.46 g/mol
 CAS NO. 7647-01-0
 EINECS 231-595-7
 NC CODE 2806 10 000

Titer (mol/l) 0.1990-0.2010

PRODUCT NO.	PACKING	CONT. BOX
7651.9010	10 l	

Volumetric Solution, ready for use.

Hydrochloric Acid

7038 0.1 mol/l / 'BAKER ANALYZED'

▶ HCl

M = 36.46 g/mol
 CAS NO. 7647-01-0
 EINECS 231-595-7
 NC CODE 2806 10 000

Titer (mol/l) 0.0997-0.1003

Trace Impurities (in ppm):

Ammonium (NH₄) max. 3
 Heavy Metals (as Pb) max. 0.5
 Iron (Fe) max. 0.1
 Sulfate (SO₄) max. 1

PRODUCT NO.	PACKING	CONT. BOX
7038.1000	1 l	6
7038.9010	10 l Polycube	
7038.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each Lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Sodium Carbonate.

Hydrochloric Acid

4657 1 mol/l / 1 equiv. = 36.46g; 1N / DILUT-IT

▶ HCl

M = 36.46 g/mol
 CAS NO. 7647-01-0
 EINECS 231-595-7
 NC CODE 2806 10 000
 UN/ID NO. 1789
 ADR/RID 8 C1
 IMDG 8/III
 H: H315-H319-H335-H336
 P: P261-P280-P304+P340-P305+P351+P338-P362-P405



Warning

PRODUCT NO.	PACKING	CONT. BOX
4657	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.



A NEW GENERATION OF DISCOVERY.

See the whole story online at www.avantormaterials.com

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 PERFORMANCE MATERIALS

Hydrochloric Acid

0.5 mol/l / 1/2 equiv. = 18.23g; 0.5 N / DILUT-IT

4654

▶ HCl

M = 36.46 g/mol

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H315-H319-H335+H336

P: P261-P280-P304+P340-
P305+P351+P338-P362-P405

Warning

PRODUCT NO.	PACKING	CONT. BOX
4654	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Hydrochloric Acid

0.1 mol/l / DILUT-IT

4655

▶ HCl

M = 36.46 g/mol

CAS NO. 7647-01-0

EINECS 231-595-7

NC CODE 2806 10 000

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/III

H: EUH210

PRODUCT NO.	PACKING	CONT. BOX
4655	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Hydrochloric Acid

0.01 mol/l / DILUT-IT

4867

▶ HCl

M = 36.46 g/mol

EINECS 231-595-7

NC CODE 2806 10 000

PRODUCT NO.	PACKING	CONT. BOX
4867	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Hydrofluoric Acid

48-51% / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis / ACS

9563

▶ HF

M = 20.01 g/mol

1 l = 1.16 kg

CAS NO. 7664-39-3

EINECS 231-634-8

NC CODE 2811 11 000

EC INDEX NO. 9 003 00 1

UN/ID NO. 1790

ADR/RID 8 CT1

IMDG 8/II

H: H300-H310-H330-H314

P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-
P361-P405

Danger

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay (acidimetric)	48.0-51.0%
Color (APHA)	max. 10
Fluorosilicic Acid (H ₂ SiF ₆)	max. 0.010%
Residue after Ignition	max. 5 ppm

Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Arsenic and Antimony (as As)	max. 30
Barium (Ba)	max. 50
Beryllium (Be)	max. 20
Bismuth (Bi)	max. 100
Boron (B)	max. 50
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 50
Chromium (Cr)	max. 10
Cobalt (Co)	max. 5
Copper (Cu)	max. 5
Gallium (Ga)	max. 20
Germanium (Ge)	max. 50
Gold (Au)	max. 10
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 100
Lead (Pb)	max. 20
Lithium (Li)	max. 20

Magnesium (Mg)	max. 50
Manganese (Mn)	max. 50
Mercury (Hg)	max. 10
Molybdenum (Mo)	max. 50
Nickel (Ni)	max. 10
Potassium (K)	max. 100
Silver (Ag)	max. 20
Sodium (Na)	max. 200
Strontium (Sr)	max. 20
Tantalum (Ta)	max. 100
Tin (Sn)	max. 50
Titanium (Ti)	max. 50
Vanadium (V)	max. 50
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 20

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Nitrate (NO ₃)	max. 3
Phosphate (PO ₄)	max. 1
Sulfate and Sulfite (as SO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9563.0500	500 ml	

Hydrofluoric Acid

6013

48% / 'BAKER ANALYZED' / ACS

▶ HF

M = 20.01 g/mol

1 l = 1.16 kg

CAS NO. 7664-39-3

EINECS 231-634-8

NC CODE 2811 11 000

EC INDEX NO. 9 003 00 1

UN/ID NO. 1790

ADR/RID 8 CT1

IMDG 8/II

H: H300-H310-H330-H314

P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-
P361-P405

Danger

Exceeds ACS Specifications

Assay	48.0-51.0%
Chloride (Cl)	max. 5 ppm
Fluorosilicic Acid (H ₂ SiF ₆)	max. 0.01%
Heavy Metals (as Pb)	max. 0.5 ppm
Phosphate (PO ₄)	max. 1 ppm
Residue after Ignition	max. 5 ppm
Sulfate and Sulfite (as SO ₄)	max. 5 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic and Antimony (as As)	max. 0.05
Barium (Ba)	max. 0.1
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Iron (Fe)	max. 0.1

Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.02
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.02
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.02
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6013.1000	1 l	6

Hydrofluoric Acid

6904

49% / ULTREX II Ultrapure Reagent

▶ HF

M = 20.01 g/mol

1 l = 1.16 kg

CAS NO. 7664-39-3

EINECS 231-634-8

NC CODE 2811 11 000

EC INDEX NO. 9 003 00 1

UN/ID NO. 1790

ADR/RID 8 CT1

IMDG 8/II

H: H300-H310-H330-H314

P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-
P361-P405

Danger

Assay	47-51% (w/w)

Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 20
Antimony (Sb)	max. 20
Arsenic (As)	max. 50
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Boron (B)	max. 100
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 20
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Gold (Au)	max. 20
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 20
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 1
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1

Nickel (Ni)	max. 50
Niobium (Nb)	max. 10
Palladium (Pd)	max. 20
Platinum (Pt)	max. 20
Potassium (K)	max. 10
Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 20
Rubidium (Rb)	max. 20
Ruthenium (Ru)	max. 20
Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 10
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 20
Titanium (Ti)	max. 50
Tungsten (W)	max. 20
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6904.0500	500 ml Fluoropolymer, pre-leached	
6904.1000	1 l Fluoropolymer, pre-leached	

Hydrofluoric Acid

38% / 'BAKER ANALYZED'

6079

▶ HF

M = 20.01 g/mol

1 l = 1.13 kg

CAS NO. 7664-39-3

EINECS 231-634-8

NC CODE 2811 11 000

EC INDEX NO. 9 003 00 1

UN/ID NO. 1790

ADR/RID 8 CT1

IMDG 8/II

H: H300-H310-H330-H314

P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-
P361-P405

Danger

Assay	38-40%
Chloride (Cl)	max. 5 ppm
Fluorosilicic Acid (H ₂ SiF ₆)	max. 0.005%
Phosphate (PO ₄)	max. 2 ppm
Residue after Ignition	max. 5 ppm
Sulfate and Sulfite (as SO ₄)	max. 5 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic and Antimony (as As)	max. 0.05
Barium (Ba)	max. 0.1
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.02
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.02
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.02
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6079.1000	1 l	6
6079.2500	2.5 l	4

Hydrogen Peroxide

30% / ULTREX II Ultrapure Reagent

5155

▶ H₂O₂

M = 34.01 g/mol

1 l = 1.11 kg

CAS NO. 7722-84-1

EINECS 231-765-0

NC CODE 2847 00 000

EC INDEX NO. 8 003 00 9

UN/ID NO. 2014

ADR/RID 5.1 OC1

IMDG 5.1/II

H: H272-H302-H318

P: P210-P220-P221-P280-
P305+P351+P338-P310

Danger

Meets ACS Ultratrace Specifications

Assay	25.0-35.0%
Appearance	passes test
Free acid (µeq/g)	max. 0.5

Trace Impurities (in ppm):

Ammonium (NH ₄)	max. 5
Chloride (Cl)	max. 1
Nitrate (NO ₃)	max. 2
Phosphate (PO ₄)	max. 2
Sulfate (SO ₄)	max. 5

Trace Impurities (in ppt):

Aluminium (Al)	max. 100
Antimony (Sb)	max. 1000
Arsenic (As)	max. 1000
Barium (Ba)	max. 50
Beryllium (Be)	max. 1000
Bismuth (Bi)	max. 1000
Boron (B)	max. 1000
Cadmium (Cd)	max. 50
Calcium (Ca)	max. 100
Chromium (Cr)	max. 50
Cobalt (Co)	max. 50
Copper (Cu)	max. 50
Gallium (Ga)	max. 1000
Iron (Fe)	max. 100
Lead (Pb)	max. 100
Lithium (Li)	max. 50

Magnesium (Mg)	max. 50
Manganese (Mn)	max. 50
Mercury (Hg)	max. 1000
Molybdenum (Mo)	max. 1000
Nickel (Ni)	max. 50
Potassium (K)	max. 100
Silicon (Si)	max. 5000
Silver (Ag)	max. 50
Sodium (Na)	max. 100
Strontium (Sr)	max. 50
Tin (Sn)	max. 50
Titanium (Ti)	max. 1000
Vanadium (V)	max. 1000
Zinc (Zn)	max. 50
Zirconium (Zr)	max. 1000

PRODUCT NO.	PACKING	CONT. BOX
5155.0450	450 ml PE	

Hydrogen Peroxide

7048 35% / 'BAKER'

▶ H₂O₂

M = 34.01 g/mol

1 l = 1.13 kg

CAS NO. 7722-84-1

EINECS 231-765-0

NC CODE 2847 00 000

EC INDEX NO. 8 003 00 9

UN/ID NO. 2014

ADR/RID 5.1 OC1

IMDG 5.1/II

H: H272-H302-H315-H318-
H335+H336P: P210-P220-P221-
P305+P351+P338-P310-P405

Danger

Assay¹

min. 35%

¹ At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
7048.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Hydrogen Peroxide

7047 30% / 'BAKER ANALYZED' / ACS

▶ H₂O₂

M = 34.01 g/mol

1 l = 1.11 kg

CAS NO. 7722-84-1

EINECS 231-765-0

NC CODE 2847 00 000

EC INDEX NO. 8 003 00 9

UN/ID NO. 2014

ADR/RID 5.1 OC1

IMDG 5.1/II

H: H272-H302-H318

P: P210-P220-P221-P280-
P305+P351+P338-P310

Danger

Exceeds ACS SpecificationsAssay¹

30.0-32.0%

Ammonium (NH₄)

max. 5 ppm

Chloride (Cl)

max. 1 ppm

Color (APHA)

max. 10

Heavy Metals (as Pb)

max. 1 ppm

Nitrate (NO₃)

max. 2 ppm

Phosphate (PO₄)

max. 2 ppm

Residue after Evaporation

max. 0.002%

Sulfate (SO₄)

max. 2 ppm

Titrable Acid (meq/g)

max. 0.0006

Trace Impurities (in ppm):

Aluminium (Al)

max. 0.05

Arsenic (As)

max. 0.05

Barium (Ba)

max. 0.02

Beryllium (Be)

max. 0.01

Cadmium (Cd)

max. 0.02

Calcium (Ca)

max. 0.5

Chromium (Cr)

max. 0.1

Cobalt (Co)

max. 0.01

Copper (Cu)

max. 0.01

Germanium (Ge)

max. 0.05

Iron (Fe)

max. 0.1

Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

¹ At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
7047.1000	1 l	6

7047.2500PE 2.5 l HDPE

Hydroquinone

1115 'BAKER'

▶ C₆H₄(OH)₂

M = 110.11 g/mol

FLASHPOINT 165 °C

CAS NO. 123-31-9

EINECS 204-617-8

NC CODE 2907 22 000

EC INDEX NO. 604 005 00 4

UN/ID NO. 2811

ADR/RID 6.1 T2

IMDG 6.1/III

H: H302-H317-H318-H341-
H351-H400P: P261-P280-P305+P351+P338-
P310-P405-P501a

Danger

Heavy Metals (as Pb)

max. 0.001%

Melting Point

172-174°C

Residue after Ignition

max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1115.0250	250 g	

(2-Hydroxyethyl)mercaptan

See Mercaptoethanol

Hydroxylamine Hydrochloride

See Hydroxylammonium Chloride

Hydroxylammonium Chloride

'BAKER ANALYZED' / ACS

2195

▶ **HONH₃Cl****M** = 69.49 g/mol**CAS NO.** 5470-11-1**EINECS** 226-798-2**NC CODE** 2825 10 000**EC INDEX NO.** 612 123 00 2**UN/ID NO.** 3260**ADR/RID** 8 C2**IMDG** 8/III**H:** H290-H302-H312-H315-H317-
H319-H351-H373-H400**P:** P260-P261-P280-
P305+P351+P338-P405-P501a

Warning

Exceeds ACS Specifications

Assay	min. 99.0%
Ammonium (NH ₄)	max. 0.1%
Appearance	passes test
Clarity of alcohol solution	passes test
Color	passes test
Identification (by IR)	passes test
Residue after Ignition	max. 0.01%
Sulfur Compounds (as SO ₄)	max. 0.005%
Titration Free Acid	max. 0.25 meq/g

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Mercury (Hg)	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
2195.0100	100 g	
2195.0250	250 g	6
2195.1000	1 kg	

ICP ICS Solution AB-1&AB-2

See ICS Solution AB-1 & AB-2

ICP ICV Solution I & II

See ICV Solution I & II

ICP Interference Check Standard I

See Interference Check Standard I

ICP Interference Check Standard II

See Interference Check Standard II

ICP Interference Check Standard IV

See Interference Check Standard IV

ICP Mixed Calibration Standard III

See Mixed Calibration Standard III

ICP Mixed Calibration Standard IV

See Mixed Calibration Standard IV

ICP Mixed Calibration Standard V

See Mixed Calibration Standard V

ICP Primary Drinking Water Std I

See Primary Drinking Water Standard I

ICP Trace Metal Standard I

See Trace Metal Standard I

ICP Trace Metal Standard III

See Trace Metal Standard III

ICP Water Standard I & II

See Water Standard I & II

ICS Solution AB-1 & AB-2

6119-01 Matrix I : 5% nitric acid - Matrix II: 20% HCl / 'BAKER INSTRA-ANALYZED' / Plasma standard

NC CODE 3822 00 000

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

H: H315

P: P264-P280-P302+P352-P321-
P332+P313-P362

Warning

Kit contents: 100 ml of each solution

Element Concentrations of Solution I (µg/ml):

Beryllium (Be)	50
Cadmium (Cd)	100
Cobalt (Co)	50
Copper (Cu)	50
Lead (Pb)	100
Manganese (Mn)	50
Nickel (Ni)	100
Silver (Ag)	100
Zinc (Zn)	100

Element Concentrations of Solution II (µg/ml):

Barium (Ba)	50
Chromium (Cr)	5
Vanadium (V)	50

PRODUCT NO.	PACKING	CONT. BOX

6119-01 100 ml x 2

For use in EPA Contract Laboratory Program (CLP).

Traceable to NIST.

ICV Solution I & II

6103-01 Matrix I : 5% nitric acid - Matrix II: 20% HCl / 'BAKER INSTRA-ANALYZED' / Plasma standard

NC CODE 3822 00 000

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Kit contents: 100 ml of each solution

Element Concentrations of Solution I (µg/ml):

Barium (Ba)	100
Beryllium (Be)	40
Cadmium (Cd)	50
Cobalt (Co)	100
Copper (Cu)	100
Iron (Fe)	100
Lead (Pb)	100
Manganese (Mn)	100
Nickel (Ni)	100
Silver (Ag)	20
Thallium (Tl)	100
Zinc (Zn)	100

Element Concentrations of Solution II (µg/ml):

Aluminium (Al)	100
Antimony (Sb)	100
Arsenic (As)	100
Calcium (Ca)	1000

Chromium (Cr)	100
Magnesium (Mg)	1000
Potassium (K)	1000
Selenium (Se)	100
Sodium (Na)	1000
Vanadium (V)	100

PRODUCT NO.	PACKING	CONT. BOX

6103-01 100 ml x 2

For use in EPA Contract Laboratory Program (CLP).

Traceable to NIST.

Imidazole

1747 'BAKER ANALYZED'

▶ NHCH:NCH:CH

M = 68.08 g/mol

CAS NO. 288-32-4

EINECS 206-019-2

NC CODE 2933 29 900

UN/ID NO. 3263

ADR/RID 8 C8

IMDG 8/III

H: H301-H314-H361

P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 99.5%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Melting Point	88-90°C
Residue after Ignition	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX

1747.0100 100 g

1747.9010 10 kg

Immuno PBS

3058 20x concentrated / Histology

NC CODE 3822 00 000

PRODUCT NO.	PACKING	CONT. BOX

3058.9010 10 l Polycube

Dilute 20 times before use.

Interference Check Standard I

(Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

6011-01

NC CODE 3822 00 000

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Elemental Concent (µg/ml):

Arsenic (As)	1000
Barium (Ba)	300
Beryllium (Be)	100
Cadmium (Cd)	300
Chromium (Cr)	300
Cobalt (Co)	300
Copper (Cu)	300
Lead (Pb)	1000
Manganese (Mn)	200
Mercury (Hg)	50
Nickel (Ni)	300
Potassium (K)	20000
Selenium (Se)	500
Silver (Ag)	300
Thallium (Tl)	1000
Vanadium (V)	300
Zinc (Zn)	300

PRODUCT

NO.

6011-01

PACKING

100 ml

CONT.

BOX

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

Interference Check Standard II

(Matrix: 5% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

6012-01

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Elemental Concent (µg/ml):

Boron (B)	500
Molybdenum (Mo)	300
Silicon (Si)	230
Titanium (Ti)	1000

PRODUCT

NO.

6012-01

PACKING

100 ml

CONT.

BOX

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

Interference Check Standard IV

(Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

6014-01

NC CODE 3822 00 000

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

H: H315

P: P264-P280-P302+P352-P321-
P332+P313-P362

Warning

Elemental Concent (µg/ml):

Aluminium (Al)	1200
Calcium (Ca)	6000
Iron (Fe)	5000
Magnesium (Mg)	3000
Sodium (Na)	1000

PRODUCT

NO.

6014-01

PACKING

100 ml

CONT.

BOX

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

Iodide/Iodate

1/128 mol/l / DILUT-IT

4876

EINECS 231-659-4

NC CODE 3822 00 000

PRODUCT

NO.

4876

PACKING

1 Amp.

CONT.

BOX

6

Volumetric Concentrate, for dilution to 1 l

WWW.AVANTORMATERIALS.COM

AVANTOR[™]
PERFORMANCE MATERIALS

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Iodin

Iodine

1118 sublimed / 'BAKER ANALYZED' / ACS



M = 253.81 g/mol
CAS NO. 7553-56-2
EINECS 231-442-4
NC CODE 2801 20 000
EC INDEX NO. 53 001 00 3
UN/ID NO. 3290
ADR/RID 6.1 TC4
IMDG 6.1/II
H: H312-H332-H400
P: P261-P280-P304+P340-P312-P363-P501a



Warning

Exceeds ACS Specifications

Assay	min. 99.8%
Chloride and Bromine (as Cl)	max. 0.003%
Non-volatile Matter	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1118.0100	100 g	6
1118.0250	250 g	6
1118.1000	1 kg	
1118.5000	5 kg	

Iodine Solution

7577 0.5 mol/l 1N / 'BAKER ANALYZED'

M = 253.81 g/mol
1 l = 1.26 kg
CAS NO. 7553-56-2
EINECS 231-441-9
NC CODE 2801 20 000
H: EUH210

Molarity (titration with Na₂S₂O₃) 0.5M ± 0.5%

PRODUCT NO.	PACKING	CONT. BOX
7577.1000	1 l	

Volumetric Solution, ready for use.

Iodine Solution

7463 0.1 mol IBr/l; 0.2N / 'BAKER ANALYZED' / According to Hanus

FLASHPOINT 40 °C
NC CODE 2801 20 000
UN/ID NO. 2789
ADR/RID 8 CF1
IMDG 8/II
H: H226-H314
P: P210-P241-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
7463.1000	1 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Iodine Solution

6124 0.1 mol ICl/l, 0.2N solution / 'BAKER' / According to Wijs

1 l = 1.21 kg
FLASHPOINT 40 °C
UN/ID NO. 2920
ADR/RID 8 CF1
IMDG 8/II
H: H331-H372-H351-H314-EUH059-H302-H312-H412-H226-EUH209A
P: P210-P241-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
6124.1000	1 l	6

Keep in a cool place and tightly closed.

Iodine Solution

0.05 mol/l 0.1N / 'BAKER ANALYZED'

7128

EINECS	231-441-9	Titer (N)	0.0997-0.1003
NC CODE	2801 20 000		
H:	EUH210		

PRODUCT NO.	PACKING	CONT. BOX
7128.1000	1 l	
7128.2500	2.5 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Arsenic Trioxide (primary standard.)

Iodine Solution

0.05 mol/l 0.1N / 'BAKER ANALYZED'

7210

EINECS	231-441-9	Titer (N)	0.0997-0.1003
NC CODE	2801 20 000		
H:	EUH210		

PRODUCT NO.	PACKING	CONT. BOX
7210.1000	1 l	
7210.2500	2.5 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Sodium Thiosulfate.

Ion Exchange Resin, Anion, IONAC NA-38

'BAKER ANALYZED'

4601

NC CODE	3914 00 000	Moisture	55-65%
H:	H319	Total Exchange Capacity (wet volume), (meq/ml)	min. 0.9
P:	P264-P280-P305+P351+P338-P337+P313	Mesh (Wet Screen Analysis):	
		On U.S. No. 16 Sieve	max. 5%
		Thru U.S. No. 50 Sieve	max. 5%



Warning

PRODUCT NO.	PACKING	CONT. BOX
4601.0500	500 g	

OH⁻ Form, Type I, Beads, 16-50 Mesh.

Manufactured by IONAC Chemical Company.

Strong base, alkyl quarternary ammonium polystyrene copolymer.

Ion Exchange Resin, Cation, Dowex C-211

'BAKER ANALYZED'

1099

NC CODE	3914 00 000	Identification	passes test
		Total Exchange Capacity (wet volume), (meq/ml)	min. 1.8
		Mesh (Wet Screen Analysis):	
		On U.S. No. 16 Sieve	max. 5%
		Thru U.S. No. 50 Sieve	max. 1%

PRODUCT NO.	PACKING	CONT. BOX
1099.0500	500 g	

H⁺ Form, Spherical Beads (16-50 Mesh).

DOWEX - Registered Trademark of The Dow Chemical Co.

Ion Exchange Resin, Cation, Dowex C-211

'BAKER ANALYZED'

1100

NC CODE	3914 00 000	Identification	passes test
		Total Exchange Capacity (wet volume), (meq/ml)	min. 2.0
		Mesh (Wet Screen Analysis):	
		On U.S. No. 16 Sieve	max. 5%
		Thru U.S. No. 40 Sieve	max. 5%

PRODUCT NO.	PACKING	CONT. BOX
1100.0500	500 g	

Na⁺ Form, Spherical Beads (16-50 Mesh).

Strong acid; styrene-DVB copolymer; nuclear sulfonic acid active group.

Ion exchange Resin, Mixed bed, IONAC NM-60

4631 'BAKER ANALYZED'

NC CODE 3914 00 000

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

Column Capacity, kgf/cf min. 12.0

Column Capacity, meq/ml min. 0.55

Effluent Greater than 50 Megohms min. 50%

Moisture 50-60%

Mesh (Wet Screen Analysis):

On U.S. No. 16 Sieve max. 5%

Thru U.S. No. 50 Sieve max. 5%

PRODUCT NO.	PACKING	CONT. BOX
4631.0500	500 g	

Ionic, NM-60H⁺/OH⁻ Form, Type I, Beads (16-50 mesh).

Strong acid/strong base, sulfonated/alkyl quarternary ammonium polystyrenes.

0134 Iron

Powder / 'BAKER ANALYZED'

► Fe

M = 55.85 g/mol

CAS NO. 7439-89-6

EINECS 231-096-4

NC CODE 7205 29 000

Assay min. 96.0%

Insoluble in H₂SO₄ max. 0.2%

Lead (Pb) max. 0.005%

Sulfide (S) max. 0.03%

Water Soluble Substances max. 0.03%

Trace Impurities (in ppm):

Arsenic (As) max. 5

PRODUCT NO.	PACKING	CONT. BOX
0134.0500GL	500 g Glass	

5764 Iron 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

► Fe

M = 55.85 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-P305+P351+P338-P362



Danger

Iron (Fe) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5764.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

6929 Iron 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

► Fe

M = 55.85 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Iron (Fe) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6929.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

6812 Iron 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

► Fe

M = 55.85 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-P332+P313-P362



Warning

Iron (Fe) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6812.0100	100 ml	

Iron(III)nitrate in Nitric Acid 0.5 mol/l.

Iron 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5731

► Fe

Iron (Fe)

9980-10020 µg/ml

M = 55.85 g/mol
NC CODE 3822 00 000
H: H272-H315-H319
P: P210-P220-P221-P280-
P305+P351+P338-P362



Danger

PRODUCT NO.	PACKING	CONT. BOX
5731.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Iron Ammonium Sulfate

See Ammonium Iron(II) Sulfate Hexahydrate

Iron(II) Chloride Tetrahydrate

'BAKER ANALYZED'

0125

► FeCl₂·4H₂O

M = 198.81 g/mol
CAS NO. 13478-10-9
EINECS 213-843-4
NC CODE 2827 33 000
UN/ID NO. 3260
ADR/RID 8 C2
IMDG 8/III
H: H302-H315-H318
P: P280-P301+P312-
P305+P351+P338-P310-P362-
P501a



Danger

Assay	min. 99.0%
Appearance of solution	passes test
Arsenic (As)	max. 0.001 %
Copper (Cu)	max. 0.005 %
Insoluble Matter	max. 0.01 %
Phosphate (PO ₄)	max. 0.001 %
Sulfate (SO ₄)	max. 0.01 %
Zinc (Zn)	max. 0.005 %

PRODUCT NO.	PACKING	CONT. BOX
0125.0250	250 g	

Iron(III) Chloride Anhydrous

'BAKER'

9051

► FeCl₃

Assay

min. 98%

M = 162.22 g/mol
CAS NO. 7705-08-0
EINECS 231-729-4
NC CODE 2827 33 000
UN/ID NO. 1773
ADR/RID 8 C2
IMDG 8/II
H: H302-H314
P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a



Danger

PRODUCT NO.	PACKING	CONT. BOX
9051.1000	1 kg	

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Iron

Iron(III) Chloride Hexahydrate

0119

Lump / 'BAKER ANALYZED' / ACS

▶ FeCl₃·6H₂O

M = 270.30 g/mol

CAS NO. 10025-77-1

EINECS 231-729-4

NC CODE 2827 33 000

H: H302-H315-H318

P: P280-P301+P312-

P305+P351+P338-P310-P362-

P501a



Danger

Meets ACS Specifications

Assay (by Iodometry)	97.0-102.0%
Calcium (Ca)	max. 0.01%
Copper (Cu) (by AAS)	max. 0.003%
Ferrous Iron (as Fe)	max. 0.002%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.005%
Nitrate (NO ₃)	max. 0.01%
Phosphorus Compounds (as PO ₄)	max. 0.01%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.01%
Zinc (Zn) (by AAS)	max. 0.003%

PRODUCT NO.	PACKING	CONT. BOX
0119.0100	100 g	
0119.1000	1 kg	6

Iron(III) Nitrate Nonahydrate

0121

'BAKER ANALYZED' / ACS

▶ Fe(NO₃)₃·9H₂O

M = 404.00 g/mol

CAS NO. 7782-61-8

EINECS 233-899-5

NC CODE 2834 29 800

UN/ID NO. 1466

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P501a



Danger

Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs

Assay (by Iodometry)	98.0-101.0%
Calcium (Ca)	max. 0.01%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.005%
Manganese (Mn)	max. 0.01%
pH of 5% Solution at 25°C	1.5-2.5
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.01%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0121.1000	1 kg	

Iron(III) Oxide

0122

powder / 'BAKER ANALYZED'

▶ Fe₂O₃

M = 159.69 g/mol

CAS NO. 1309-37-1

EINECS 215-168-2

NC CODE 2821 10 000

Assay (by Iodometry)	min. 98.0%
Copper (Cu) (by AAS)	max. 0.01%
Insoluble in HCl	max. 0.2%
Manganese (Mn) (by AAS)	max. 0.05%
Phosphate (PO ₄)	max. 0.02%
Sulfate (SO ₄)	max. 0.2%
Zinc (Zn) (by AAS)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0122.0500	500 g	
0122.9012	12 kg PE Pail	

Iron Sesquioxide

See Iron(III) Oxide

Iron(III) Sulfate n-Hydrate

0123

'BAKER ANALYZED'

▶ Fe₂(SO₄)₃·nH₂O

CAS NO. 15244-10-7

EINECS 233-072-9

NC CODE 2833 29 500

H: H302-H318

P: P264-P280-P301+P312-

P305+P351+P338-P310-P501a



Danger

Assay (Fe ₂ (SO ₄) ₃)	min. 73.0%
Chloride (Cl)	max. 0.002%
Copper (Cu)	max. 0.005%
Ferrous Iron (as Fe)	max. 0.02%
Insoluble Matter	max. 0.02%
Nitrate (NO ₃)	max. 0.01%
Substances not Precipitated by NH ₄ OH (as SO ₄)	max. 0.1%
Zinc (Zn)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0123.1000	1 kg	

Iron(II) Sulfate Heptahydrate

'BAKER ANALYZED' / ACS

0126

▶ FeSO₄·7H₂O

M = 278.02 g/mol

CAS NO. 7782-63-0

EINECS 231-753-5

NC CODE 2833 29 500

H: H302-H315-H319

P: P280-P301+P312-

P305+P351+P338-P332+P313-
P362-P501a

Warning

Meets ACS Specifications

Assay (by KMnO ₄ titrn.)	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.005%
Ferric ion (Fe ³⁺)	max. 0.1%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.002%
Manganese (Mn)	max. 0.05%
Phosphate (PO ₄)	max. 0.001%
Potassium (K)	max. 0.002%
Sodium (Na)	max. 0.02%
Zinc (Zn)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0126.0500	500 g	6

Iron(II) Sulfate Heptahydrate

'BAKER'

0127

▶ FeSO₄·7H₂O

M = 278.02 g/mol

CAS NO. 7782-63-0

EINECS 231-753-5

NC CODE 2833 29 500

H: H302-H315-H319

P: P280-P301+P312-

P305+P351+P338-P332+P313-
P362-P501a

Warning

Assay	98.0-105.0%
Appearance of solution	passes test
Chloride (Cl)	max. 300 ppm
Ferric ion (Fe ³⁺)	max. 0.5%
Heavy Metals (as Pb)	max. 50 ppm
Identification	passes test
Manganese (Mn)	max. 0.1%
pH	3.0-4.0
Zinc (Zn)	max. 500 ppm

PRODUCT NO.	PACKING	CONT. BOX
0127.1000	1 kg	

Isoamyl Alcohol

'BAKER ANALYZED'

8010

▶ (CH₃)₂CHCH₂CH₂OH

M = 88.15 g/mol

1 l = 0.81 kg

FLASHPOINT 43 °C

CAS NO. 123-51-3

EINECS 204-633-5

NC CODE 2905 15 000

UN/ID NO. 1105

ADR/RID 3 F1

IMDG 3/III

H: H226-H302-H332

P: P210-P241-P261-P280-

P303+P361+P353-P501a



Warning

Assay (by GC)	min. 98%
Acids and Esters (as Amyl Acetate)	max. 0.06%
Aldehydes	passes test
Boiling Range	128-132°C
Color (APHA)	max. 5
Residue after Evaporation	max. 0.003%
Substances Darkened by H ₂ SO ₄	passes test
Titration Acid (meq/g)	max. 0.002
Water (H ₂ O)	max. 0.2%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8010.1000	1 l	6

Isobutyl Alcohol

9048-03 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

▶ (CH₃)₂CHCH₂OH

M = 74.12 g/mol

1 l = 0.80 kg

FLASHPOINT 27 °C

CAS NO. 78-83-1

EINECS 201-148-0

NC CODE 2905 14 900

EC INDEX NO. 603 004 00 6

UN/ID NO. 1212

ADR/RID 3 F1

IMDG 3/III

H: H226-H315-H318-H335+H336

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay (by GC) (corrected for water) min. 99.5%

Residue after Evaporation max. 5 ppm

Water (by KF, coulometric) max. 0.05%

Ultraviolet Absorbance (1.00-cm path vs water):

at 254 nm max. 0.05

at 280 nm max. 0.02

at 350 nm max. 0.01

UV Cut-off, nm max. 220

PRODUCT NO.	PACKING	CONT. BOX
9048-03	4 l Glass	4

Isobutyl Alcohol

8056 'BAKER ANALYZED'

▶ (CH₃)₂CHCH₂OH

M = 74.12 g/mol

1 l = 0.80 kg

FLASHPOINT 27 °C

CAS NO. 78-83-1

EINECS 201-148-0

NC CODE 2905 14 900

EC INDEX NO. 603 004 00 6

UN/ID NO. 1212

ADR/RID 3 F1

IMDG 3/III

H: H226-H315-H318-H335+H336

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay (by GC) min. 99.0 %

Carbonyl Compounds max. 0.1%

Color (APHA) max. 10

Residue after Evaporation max. 0.001%

Solubility in Water passes test

Titrable Acid (meq/g) max. 0.0005

Water (H₂O) max. 0.1%

Trace Impurities (in ppm):

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg) max. 0.1

Manganese (Mn) max. 0.02

Nickel (Ni) max. 0.02

Tin (Sn) max. 0.1

Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8056.1000	1 l	6

▶ Iso-Octane

See Trimethylpentane

▶ Isopropyl Alcohol

See Propanol

Karl Fischer Reagent

8792 5.0 mg H₂O/ml / 'BAKER ANALYZED' / Titrant for moisture determination

1 l = 1.18 kg

FLASHPOINT >21 °C

NC CODE 3822 00 000

UN/ID NO. 1993

ADR/RID 3 F1

IMDG 3/III

H: H226-H302-H312-H332-H360

P: P210-P241-P261-P280-
P303+P361+P353-P405

Danger

Titer (mg H₂O/ml) min. 5.0

PRODUCT NO.	PACKING	CONT. BOX
8792.1000	1 l	6
8792.2500	2.5 l	4

Solution Stabilized.

Contains Pyridine, 2-Methoxyethanol and Sulfur Dioxide.

One component reagent.

Karl Fischer Reagent

2.0 mg H₂O/ml / 'BAKER ANALYZED' / Titrant for moisture determination

8834

FLASHPOINT	21 °C	Titer (mg H₂O/ml)	min. 2.0
NC CODE	3822 00 000		
UN/ID NO.	1993		
ADR/RID	3 F1		
IMDG	3/III		
H:	H225-H302-H312-H332-H360		
P:	P210-P241-P261-P280-P303+P361+P353-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8834.1000	1 l	
8834.2500	2.5 l	

Solution stabilized.

Contains Pyridine, 2-Methoxyethanol and Sulfur Dioxide.

One component reagent.

Kerosene

'BAKER'

8387

1 l =	0.79 kg	Boiling Range	194-250°C
FLASHPOINT	72 °C		
CAS NO.	64742-47-8		
EINECS	265-200-4		
NC CODE	2710 11 250		
EC INDEX NO.	649 406 00 5		
UN/ID NO.	1223		
ADR/RID	3 F1		
IMDG	3/III		
H:	H304		
P:	P301+P310-P331-P405-P501a		



Danger

PRODUCT NO.	PACKING	CONT. BOX
8387.5000	5 l EcoTainer	
8387.9200	200 l	

Kieselguhr

'BAKER' / For Filtration

0116

NC CODE	3802 90 000	Appearance	passes test
H:	H373		
P:	P260-P314-P501a		



Warning

PRODUCT NO.	PACKING	CONT. BOX
0116.1000	1 kg	

Lactic Acid

'BAKER ANALYZED' / ACS

6017

▶ CH ₃ CHOHCOOH	Meets ACS Specifications	PRODUCT NO.	PACKING	CONT. BOX
M = 90.08 g/mol	Assay	85.0-90.0%		
1 l = 1.25 kg	Chloride (Cl)	max. 0.001%		
FLASHPOINT 110 °C	Residue after Ignition	max. 0.02%		
CAS NO. 79-33-4	Substances Darkened by H ₂ SO ₄	passes test		
EINECS 201-196-2	Sulfate (SO ₄)	max. 0.002%		
NC CODE 2918 11 000	Trace Impurities (in ppm):			
H: H315-H318	Heavy Metals (as Pb)	max. 5		
P: P264-P280-P305+P351+P338-P310-P332+P313-P362	Iron (Fe)	max. 5		



Danger

PRODUCT NO.	PACKING	CONT. BOX
6017.1000	1 l	

D(+)-Lactose Monohydrate

0138 'BAKER ANALYZED' Biochemical / ACS

▶ $C_{12}H_{22}O_{11} \cdot H_2O$

M = 360.32 g/mol

CAS NO. 10039-26-6

EINECS 200-559-2

NC CODE 1702 11 000

Exceeds ACS Specifications

Dextrose	passes test
Insoluble Matter	max. 0.005%
Residue after Ignition	max. 0.03%
Sucrose	passes test
Water (H_2O)	4.0-6.0%

Trace Impurities (in ppm):

Dextrin, Starch	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0138.1000	1 kg	

Lanthanum 1000 µg/ml

6949 0.10% (w/v) / (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ La

M = 138.90 g/mol

NC CODE 3822 00 000

H: 36/38

P: 26-

Lanthanum (La) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6949.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Lanthanum Chloride 7-Hydrate

0383 'BAKER ANALYZED' / For Flame Enhancement in Atomic Absorption Spectroscopy / ACS

▶ $LaCl_3 \cdot 7H_2O$

M = 371.38 g/mol

CAS NO. 10099-58-8

EINECS 233-237-5

NC CODE 2846 90 000

Meets ACS Specifications

Assay ($LaCl_3$)	64.5-70.0%
Calcium (Ca)	max. 0.001%
Insoluble Matter	max. 0.01%

Trace Impurities (in ppm):

Magnesium (Mg)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
0383.0025	25 g Glass	6
0383.0100	100 g	

Lanthanum Nitrate Hexahydrate

0597 'BAKER' / For Flame Enhancement in Atomic Absorption Spectroscopy

▶ $La(NO_3)_3 \cdot 6H_2O$

M = 433.02 g/mol

CAS NO. 10277-43-7

EINECS 233-238-0

NC CODE 2846 90 000

UN/ID NO. 1477

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272-H318

P: P210-P220-P221-

P305+P351+P338-P310-P501a



Danger

Calcium (Ca) (by AAS) max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
0597.0100	100 g	

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AVANTOR
PERFORMANCE MATERIALS

Lanthanum Oxide

Powder / ULTREX Ultrapure Reagent

4991

▶ La₂O₃

M = 325.84 g/mol
CAS NO. 1312-81-8
EINECS 215-200-5
NC CODE 2846 90 000

Actual Lot Analysis Lot. No. B43438

Assay (by EDTA titrn.) 99.3%
 Loss on Ignition at 1150°C 0.6%
 Particulate Matter < 0.0001%

Metallic Impurities in parts per million (µg/g):

Aluminium (Al) < 1
 Calcium (Ca) < 0.5
 Copper (Cu) < 1
 Iron (Fe) < 1
 Lead (Pb) < 10
 Magnesium (Mg) < 0.3
 Potassium (K) < 0.5
 Rare Earths < 10
 Silver (Ag) < 1
 Sodium (Na) < 0.3
 Tin (Sn) < 10

Non-Metallic Impurities in parts per million (µg/g):

Halide (as Cl) 5
 Silicon (Si) < 1
 Sulfur Compounds (as SO₄) 3

PRODUCT NO.	PACKING	CONT. BOX
4991.0100	100 g PE	

For Laboratory, Research or Manufacturing Use.

Lead 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5765

▶ Pb

M = 207.21 g/mol
NC CODE 3822 00 000
H: EUH201-H272-H315-H319-H360Df-H412
P: P210-P220-P221-P280-P305+P351+P338-P405



Danger

Lead (Pb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5765.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Lead 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6930

▶ Pb

M = 207.20 g/mol
NC CODE 3822 00 000
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Lead (Pb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6930.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Lead 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6813

▶ Pb

M = 207.21 g/mol
NC CODE 3822 00 000
H: H315
P: P264-P280-P302+P352-P321-P332+P313-P362



Warning

Lead (Pb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6813.0100	100 ml	

Lead(II) Nitrate in Nitric Acid 0.5 mol/l.

Lead

Lead 10000 µg/ml

5732 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Pb

M = 207.21 g/mol

NC CODE 3822 00 000

H: H72-H360Df-H373-H315-H319-
H412-EUH201P: P221-P210-P260-P220-
P305+P351+P338-P405

Danger

Lead (Pb)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5732.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Lead(II) Acetate Trihydrate

0141 'BAKER ANALYZED' / ACS

▶ Pb(CH₃COO)₂·3H₂O

M = 379.33 g/mol

CAS NO. 6080-56-4

EINECS 206-104-4

NC CODE 2915 29 000

EC INDEX NO. 82 005 00 8

UN/ID NO. 1616

ADR/RID 6.1 T5

IMDG 6.1/III

H: H360Df-H373-H400-H410

P: P260-P273-P281-P308+P313-
P405-P501a

Danger

Exceeds ACS Specifications

Assay	99.0-103.0%
Calcium (Ca)	max. 0.005%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Nitrate and Nitrite (as NO ₃)	max. 0.005%
pH of 5% Solution at 25°C	5.5-6.5
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.01%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5

PRODUCT
NO.

PACKING

CONT.
BOX

0141.0250

250 g

Lead(II) Nitrate

0148 'BAKER ANALYZED'

▶ Pb(NO₃)₂

M = 331.20 g/mol

CAS NO. 10099-74-8

EINECS 233-245-9

NC CODE 2834 29 800

EC INDEX NO. 82 001 00 6

UN/ID NO. 1469

ADR/RID 5.1 OT2

IMDG 5.1/II

H: EUH201-H302-H332-H360Df-
H373-H400-H410P: P260-P261-P281-P301+P312-
P405-P501a

Danger

Meets ACS Specifications

Assay (by EDTA titrn.)	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.02%

PRODUCT
NO.

PACKING

CONT.
BOX

0148.0100

100 g

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Lead(II) Oxide (Litharge)

powder / 'BAKER ANALYZED' / ACS

2338

► PbO

M = 223.19 g/mol

CAS NO. 1317-36-8

EINECS 215-267-0

NC CODE 2824 10 000

EC INDEX NO. 82 001 00 6

UN/ID NO. 2291

ADR/RID 6.1 T5

IMDG 6.1/III

H: EUH201-H302-H332-H360Df-H373-H400-H410

P: P260-P261-P281-P301+P312-P405-P501a



Danger

Meets ACS Specifications

Assay	min. 99.0%
Average Particle Diameter, µm (APD)	act. value reported
Bulk Density (g/cc)	act. value reported
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.002%
Copper (Cu)	max. 0.005%
Insoluble in CH ₃ COOH	max. 0.02%
Nitrate (NO ₃)	max. 0.01%
Potassium (K)	max. 0.005%
Silicon (Si)	act. value reported
Sodium (Na)	max. 0.02%
Specific Surface Area, m ² /g	act. value reported

Mesh (Wet Screen Analysis):

On U.S. No. 325 Sieve	act. value reported

Trace Impurities (in ppm):

Iron (Fe)	max. 5
Silver (Ag)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
2338.0500PE	500 ml HDPE	

Leishman

Hematology

3879

1 l = 0.79 kg

FLASHPOINT 11°C °C

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H311-H331-H370

P: P210-P241-P260-P303+P361+P353-P361-P405



Danger

Leishmans stain for differential blood picture staining

PRODUCT NO.	PACKING	CONT. BOX
3879.1000	1 l Glass	

Levulose

See Fructose

Lithium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5766

► Li

M = 6.94 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-P305+P351+P338-P362



Danger

Lithium (Li) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5766.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Lithium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6931

► Li

M = 6.94 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Lithium (Li) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6931.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Lithium 1000 µg/ml

6814

'BAKER ANALYZED' / Atomic Absorption Standard



Li

M = 6.94 g/mol

NC CODE 3822 00 000

Lithium (Li)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6814.0100

100 ml

Lithium Chloride in Water.

Lithium 10000 µg/ml

5733

(Matrix: 7% nitric acid) / 'BAKER INSTRANA-ANALYZED' / Plasma standard



Li

M = 6.94 g/mol

NC CODE 3822 00 000

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Lithium (Li)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5733.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Lithium meta-Borate

0382

'BAKER ANALYZED' / ACS

LiBO₂

M = 49.75 g/mol

CAS NO. 13453-69-5

EINECS 236-631-5

NC CODE 2840 20 900

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay (LiBO ₂)	98.0-102.0%
Aluminium (Al)	max. 0.001%
Bulk Density (g/cc)	min. 0.25
Calcium (Ca)	max. 0.01%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Fusion at 950°C	max. 2.0%
Phosphorus Compounds (as PO ₄)	max. 0.004%
Potassium (K)	max. 0.005%
Silicon (Si)	max. 0.005%
Sodium (Na)	max. 0.005%

Trace Impurities (in ppm):

Magnesium (Mg) max. 5

PRODUCT
NO.

PACKING

CONT.
BOX

0382.0100

100 g

The formula weight of this reagent is likely to deviate from the value cited above, since the natural distribution of ⁶Li and ⁷Li isotopes is often altered in current sources of lithium compounds.

Lithium Carbonate

0155

'BAKER ANALYZED'

Li₂CO₃

M = 73.89 g/mol

CAS NO. 554-13-2

EINECS 209-062-5

NC CODE 2836 91 000

H: H302-H315

P: P264-P280-P301+P312-
P332+P313-P362-P501a

Warning

Assay	min. 99.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.002%
Insoluble in HCl	max. 0.01%
Iron (Fe)	max. 0.002%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.01%
Total Sulfur (as SO ₄)	max. 0.2%

Trace Impurities (in ppm):

Ammonium (NH₄) max. 5
Nitrate (NO₃) max. 5PRODUCT
NO.

PACKING

CONT.
BOX

0155.0100

100 g

Lithium Chloride

granular / 'BAKER ULTRAPURE BIOREAGENT' / Suitable for RNA Concentration

4002

▶ LiCl

M = 42.39 g/mol
CAS NO. 7447-41-8
EINECS 231-212-3
NC CODE 2827 39 800
H: H302-H315-H319
P: P280-P301+P312-
 P305+P351+P338-P332+P313-
 P362-P501a



Warning

Assay (argentometric titrn.)	min. 99.0%
Calcium (Ca)	max. 0.01%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 1.0%
Potassium (K)	max. 0.01%
Protease Activity	none detected
RNase Activity	none detected
Sodium (Na)	max. 0.2%
Titration Base (meq/g)	max. 0.008

PRODUCT NO.	PACKING	CONT. BOX
4002.0500	500 g	

Lithium Chloride

'BAKER ANALYZED' / ACS

0156

▶ LiCl

M = 42.39 g/mol
CAS NO. 7447-41-8
EINECS 231-212-3
NC CODE 2827 39 800
H: H302-H315-H319
P: P280-P301+P312-
 P305+P351+P338-P332+P313-
 P362-P501a



Warning

Meets ACS Specifications

Assay	min. 99%
Barium (Ba)	max. 0.003%
Calcium (Ca)	max. 0.01%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 1.0%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.20%
Sulfate (SO ₄)	max. 0.01%
Titration Base (meq/g)	max. 0.008

PRODUCT NO.	PACKING	CONT. BOX
0156.0100	100 g	6
0156.1000	1 kg	
0156.5000	5 kg	

Lithium Chloride

'BAKER'

0157

▶ LiCl

M = 42.39 g/mol
CAS NO. 7447-41-8
EINECS 231-212-3
NC CODE 2827 39 800
H: H302-H315-H319
P: P280-P301+P312-
 P305+P351+P338-P332+P313-
 P362-P501a



Warning

Assay	min. 98.0%
Heavy Metals (as Pb)	max. 0.01%
Insoluble Matter	max. 0.05%
pH of 5% Solution at 25°C	6.0-9.0
Sodium (Na)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
0157.0250	250 g	

Lithium Nitrate

'BAKER ANALYZED'

0158

▶ LiNO₃

M = 68.94 g/mol
CAS NO. 7790-69-4
EINECS 232-218-9
NC CODE 2834 29 800
UN/ID NO. 2722
ADR/RID 5.1 O2
IMDG 5.1/III
H: H272
P: P210-P220-P221-P280-
 P370+P378a-P501a



Danger

Assay (acidimetric)	min. 97.0%
Barium (Ba)	max. 0.002%
Calcium (Ca) (by FES)	max. 0.02%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Potassium (K) (by FES)	max. 0.05%
Sodium (Na) (by FES)	max. 0.05%
Sulfate (SO ₄)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0158.0500	500 g	6

Lithium Tetraborate

1465

'BAKER INSTRA-ANALYZED'

▶ $\text{Li}_2\text{B}_4\text{O}_7$

M = 169.12 g/mol

CAS NO. 12007-60-2

EINECS 234-514-3

NC CODE 2840 20 900

$\text{B}_2\text{O}_3/\text{Li}_2\text{O}$ Ratio	1.95-2.05
Bulk Density, Loose (g/cc)	max. 0.38
Calcium (Ca)	max. 0.015%
Ferric Oxide (Fe_2O_3)	max. 0.03%
Lithium Oxide (Li_2O)	min. 17.0%
Loss on Drying at 285°C	max. 1%
Silicon Dioxide (SiO_2)	max. 0.03%
Sodium (Na)	max. 0.015%
Titanium Dioxide (TiO_2)	max. 0.02%
Water (H_2O)	max. 1.0%

PRODUCT NO.	PACKING	CONT. BOX

1465.0500 500 g

Flux Grade.

Magnesium 1000 µg/ml

5767

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Mg

M = 24.31 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

Magnesium (Mg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX

5767.0100 100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within $\pm 0.2\%$. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Magnesium 1000 µg/ml

6932

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Mg

M = 24.31 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-

P332+P313-P337+P313-P362



Warning

Magnesium (Mg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX

6932.0100 100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Magnesium 1000 µg/ml

6815

'BAKER ANALYZED' / Atomic Absorption Standard

▶ Mg

M = 24.31 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-

P332+P313-P362



Warning

Magnesium (Mg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX

6815.0100 100 ml

Magnesium Nitrate in Nitric Acid 0.5 mol/l.

Magnesium 10000 µg/ml

5734

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Mg

M = 24.31 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

Magnesium (Mg) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX

5734.0100 100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Magnesium Acetate Tetrahydrate

'BAKER ANALYZED' / ACS

0160

▶ $\text{Mg}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ M = 214.46 g/mol CAS NO. 16674-78-5 EINECS 205-554-9 NC CODE 2915 29 000	Meets ACS Specifications	PRODUCT NO.	PACKING	CONT. BOX
	Assay	98.0-102.0%		
	Barium (Ba)	max. 0.001%		
	Calcium (Ca)	max. 0.01%		
	Chloride (Cl)	max. 0.001%		
	Insoluble Matter	max. 0.005%		
	Manganese (Mn)	max. 0.001%		
	Potassium (K)	max. 0.005%		
	Sodium (Na)	max. 0.005%		
	Strontium (Sr)	max. 0.005%		
	Sulfate (SO_4)	max. 0.005%		
	Trace Impurities (in ppm):			
	Heavy Metals (as Pb)	max. 5		
	Iron (Fe)	max. 5		
			0160.0250	250 g

Magnesium Carbonate n-Hydrate

'BAKER ANALYZED'

0161

▶ $4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ CAS NO. 12125-28-9 EINECS 235-192-7 NC CODE 2836 99 110	Assay (as MgO) Appearance of solution Arsenic (As) Calcium (Ca) Chlorides (as Cl) Heavy Metals (as Pb) Iron (Fe) Soluble Substances Substances Insoluble in Acetic Acid Sulfates (as SO_4)	40.0-45.0% passes test max. 2 ppm max. 0.75% max. 0.07% max. 20 ppm max. 400 ppm max. 1.0% max. 0.05% max. 0.3%	PRODUCT NO.	PACKING	CONT. BOX
			0161.0250	250 g	

Magnesium Chloride Hexahydrate

crystal / 'BAKER ULTRAPURE BIOREAGENT'

4003

▶ $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ M = 203.30 g/mol CAS NO. 7791-18-6 EINECS 232-094-6 NC CODE 2827 31 000	Assay Ammonium (NH_4) Calcium (Ca) DNase Activity Insoluble Matter Potassium (K) Protease Activity RNase Activity Sodium (Na) Trace Impurities (in ppm): Heavy Metals (as Pb) Iron (Fe) Manganese (Mn)	99.0 - 102.0% max. 0.002% max. 0.01% none detected max. 0.005% max. 0.005% none detected none detected max. 0.005% max. 5 max. 5 max. 5	PRODUCT NO.	PACKING	CONT. BOX
			4003.0500	500 g	
			4003.2500	2.5 kg	

Magnesium Chloride Hexahydrate

'BAKER ANALYZED' / ACS

0162

▶ $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ M = 203.30 g/mol CAS NO. 7791-18-6 EINECS 232-094-6 NC CODE 2827 31 000	Meets ACS Specifications Assay Ammonium (NH_4) Barium (Ba) Calcium (Ca) Insoluble Matter Nitrate (NO_3) Potassium (K) Sodium (Na) Strontium (Sr) Sulfate (SO_4) Trace Impurities (in ppm): Heavy Metals (as Pb) Iron (Fe) Manganese (Mn) Phosphate (PO_4)	99.0-102.0% max. 0.002% max. 0.005% max. 0.01% max. 0.005% max. 0.001% max. 0.005% max. 0.005% max. 0.005% max. 0.002% max. 5 max. 5 max. 5 max. 5	PRODUCT NO.	PACKING	CONT. BOX
			0162.0250	250 g	6
			0162.1000	1 kg	6

Magnesium Chloride Hexahydrate

0163 'BAKER'

▶ $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$	Assay	min. 98.5%
M = 203.30 g/mol	Heavy Metals (as Pb)	max. 0.001%
CAS NO. 7791-18-6	Insoluble Substances	max. 0.01%
EINECS 232-094-6	pH of 5% Solution at 25°C	4.5-7.0
NC CODE 2827 31 000		

PRODUCT NO.	PACKING	CONT. BOX
0163.1000	1 kg	

Magnesium Nitrate Hexahydrate

0164 'BAKER ANALYZED' / ACS

▶ $\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	Exceeds ACS Specifications	
M = 256.41 g/mol	Assay	98.0-102.0%
CAS NO. 13446-18-9	Ammonium (NH_4)	max. 0.002%
EINECS 233-826-7	Barium (Ba)	max. 0.002%
NC CODE 2834 29 800	Calcium (Ca)	max. 0.01%
UN/ID NO. 1474	Chloride (Cl)	max. 0.001%
ADR/RID 5.1 O2	Insoluble Matter	max. 0.005%
IMDG 5.1/III	pH of 5% Solution at 25°C	5.0-7.0
H: H272	Potassium (K)	max. 0.005%
P: P210-P220-P221-P280-P370+P378a-P501a	Sodium (Na)	max. 0.005%
	Strontium (Sr)	max. 0.005%
	Sulfate (SO_4)	max. 0.005%
	Trace Impurities (in ppm):	
Danger	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5
	Manganese (Mn)	max. 5
	Phosphate (PO_4)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0164.0500	500 g	6

Magnesium Oxide

1122 'BAKER ANALYZED' / ACS

▶ MgO	Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs	
M = 40.30 g/mol	Assay (dried basis)	min. 95.0%
CAS NO. 1309-48-4	Barium (Ba)	max. 0.005%
EINECS 215-171-9	Calcium (Ca)	max. 0.05%
NC CODE 2519 90 100	Chloride (Cl)	max. 0.01%
	Heavy Metals (as Pb)	max. 0.003%
	Insoluble in Dilute HCl	max. 0.02%
	Iron (Fe)	max. 0.01%
	Loss on Ignition	max. 2.0%
	Manganese (Mn)	max. 5 ppm
	Nitrate (NO_3)	max. 0.005%
	Potassium (K)	max. 0.005%
	Sodium (Na)	max. 0.5%
	Strontium (Sr)	max. 0.005%
	Sulfate and Sulfite (as SO_4)	max. 0.02%
	Water Soluble Substances	max. 0.4%
	Product Information (not specifications):	
	Average Particle Diameter, μm (APD)(by Sedigraph) (typical)	4
	Bulk Density (g/cc)(typical)	0.5
	Specific Surface Area m^2/g (typical)	7

PRODUCT NO.	PACKING	CONT. BOX
1122.1000	1 kg	

▶ Magnesium Perchlorate

See Anhydron

▶ Magnesium Silicate, Activated

See Florisil

Magnesium Sulfate Anhydrous

'BAKER ANALYZED'

0366

▶ MgSO_4	Assay (after ignition)	min. 99.0%
M = 120.37 g/mol	Ammonium (NH_4)	max. 0.004%
CAS NO. 7487-88-9	Calcium (Ca)	max. 0.06%
EINECS 231-298-2	Chloride (Cl)	max. 0.001%
NC CODE 2833 21 000	Heavy Metals (as Pb)	max. 0.001%
	Iron (Fe)	max. 0.001%
	Loss on Ignition	max. 2.0%
	Manganese (Mn)	max. 0.001%
	Nitrate (NO_3)	max. 0.004%
	Trace Impurities (in ppm):	
	Arsenic (As)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0366.0500	500 g	

Magnesium Sulfate Heptahydrate

'BAKER'

0169

▶ $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	Assay (dried basis)	99.0-100.5%
M = 246.47 g/mol	Acidity or Alkalinity	passes test
CAS NO. 10034-99-8	Appearance of solution	passes test
EINECS 231-298-2	Arsenic (As)	max. 2 ppm
NC CODE 2833 21 000	Chlorides (as Cl)	max. 300 ppm
	Heavy Metals (as Pb)	max. 10 ppm
	Identification	passes test
	Iron (Fe)	max. 20 ppm
	Loss on Drying	48.0-52.0%

PRODUCT NO.	PACKING	CONT. BOX
0169.5000	5 kg	4

Malachite Green Oxalate

Certified Stain / 'BAKER ANALYZED' / Certified for Use in Histology and Bacteriology

1325

▶ $\text{C}_{52}\text{H}_{54}\text{N}_{10}\text{O}_{12}$	Appearance	passes test
M = 92700 g/mol		
CAS NO. 2437-29-8		
EINECS 219-441-7		
NC CODE 3204 13 000		
UN/ID NO. 2811		
ADR/RID 6.1 T2		
IMDG 6.1/III		
H: H302-H318-H361d-H400-H410		
P: P280-P281-P305+P351+P338-P310-P405-P501a		



Danger

PRODUCT NO.	PACKING	CONT. BOX
1325.0100	100 g	

C.I. 42000.

Maleic Acid

'BAKER ANALYZED'

2790

▶ $\text{HOOCCH}:\text{CHCOOH}$	Assay (acidimetric)	min. 99.0%
M = 116.07 g/mol	Chloride (Cl)	max. 0.002%
CAS NO. 110-16-7	Heavy Metals (as Pb)	max. 0.001%
EINECS 203-742-5	Iron (Fe)	max. 0.001%
NC CODE 2917 19 900	Melting Point	132-135°C
EC INDEX NO. 607 095 00 3	Residue after Ignition	max. 0.1%
UN/ID NO. 3261	Sulfate (SO_4)	max. 0.01%
ADR/RID 8 C4		
IMDG 8/III		
H: H302-H315-H317-H319-H335		
P: P261-P280-P305+P351+P338-P362-P405-P501a		



Warning

PRODUCT NO.	PACKING	CONT. BOX
2790.0500	500 g	

Malonic Acid
'BAKER ANALYZED'

1124

▶ CH₂(COOH)₂

M = 104.06 g/mol

CAS NO. 141-82-2

EINECS 205-503-0

NC CODE 2917 19 100

H: H302-H319

P: P264-P280-P301+P312-

P305+P351+P338-P337+P313-

P501a



Warning

Assay

min. 99.0%

Heavy Metals (as Pb)

max. 0.001%

Iron (Fe)

max. 0.005%

Melting Range

132-136°C

Residue after Ignition

max. 0.3%

PRODUCT
NO.

PACKING

CONT.
BOX

1124.0100

100 g

Manganese 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5793

▶ Mn

M = 54.94 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

Manganese (Mn)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5793.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Manganese 1000 µg/ml

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6933

▶ Mn

M = 200.59 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-

P332+P313-P337+P313-P362



Warning

Manganese (Mn)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6933.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Manganese 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6816

▶ Mn

M = 54.94 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-

P332+P313-P362



Warning

Manganese (Mn)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6816.0100

100 ml

Manganese(II) Nitrate in Nitric Acid 0.5 mol/l.

WWW.AVANTORMATERIALS.COM

AVANTOR™
PERFORMANCE MATERIALS

Manganese 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5735

▶ Mn	Manganese (Mn)	9980-10020 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 54.94 g/mol			5735.0100	100 ml	
NC CODE 3822 00 000					
H: H272-H315-H319					
P: P210-P220-P221-P280-P305+P351+P338-P362					
 					
Danger					
					Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.
					The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Manganese(II) Carbonate

'BAKER ANALYZED'

0172

▶ MnCO ₃	Assay (as Mn)	min. 43.0%	PRODUCT NO.	PACKING	CONT. BOX
M = 114.95 g/mol	Average Particle Diameter, µm (APD)	max. 3	0172.0500	500 g	
CAS NO. 598-62-9	Calcium (Ca)	max. 0.01%			
EINECS 209-942-9	Chloride (Cl)	max. 0.02%			
NC CODE 2836 99 180	Insoluble in HCl	max. 0.01%			
	Iron (Fe)	max. 0.02%			
	Magnesium (Mg)	max. 0.01%			
	Other Heavy Metals (as Pb)	max. 0.005%			
	Potassium (K)	max. 0.01%			
	Sodium (Na)	max. 0.02%			
	Sulfate (SO ₄)	max. 0.005%			
	Zinc (Zn)	max. 0.05%			

Manganese(II) Carbonate

powder / 'BAKER ANALYZED'

2536-07

▶ MnCO ₃	Assay (as Mn)	min. 43.0%	PRODUCT NO.	PACKING	CONT. BOX
M = 114.95 g/mol	Average Particle Diameter, µm (APD)	max. 3	2536-07	12 kg PE Pail	
CAS NO. 598-62-9	Calcium (Ca)	max. 0.01%			
EINECS 209-942-9	Chloride (Cl)	max. 0.02%			
NC CODE 2836 99 180	Insoluble in HCl	max. 0.01%			
	Iron (Fe)	max. 0.02%			
	Magnesium (Mg)	max. 0.01%			
	Other Heavy Metals (as Pb)	max. 0.005%			
	Potassium (K)	max. 0.01%			
	Sodium (Na)	max. 0.02%			
	Sulfate (SO ₄)	max. 0.005%			
	Zinc (Zn)	max. 0.05%			

Manganese(II) Chloride Tetrahydrate

'BAKER ANALYZED' / ACS

0173

▶ MnCl ₂ ·4H ₂ O	Meets ACS Specifications		PRODUCT NO.	PACKING	CONT. BOX
M = 197.91 g/mol	Assay (by EDTA titrn.)	98.0-101.0%	0173.0500	500 g	6
CAS NO. 13446-34-9	Calcium (Ca)	max. 0.005%			
EINECS 231-869-6	Insoluble Matter	max. 0.005%			
NC CODE 2827 39 900	Magnesium (Mg)	max. 0.005%			
H: H302	pH of 5% Solution at 25°C	3.5-6.0			
P: P264-P270-P301+P312-P330-P501a	Potassium (K)	max. 0.01%			
	Sodium (Na)	max. 0.05%			
Warning	Sulfate (SO ₄)	max. 0.005%			
	Zinc (Zn)	max. 0.005%			
	Trace Impurities (in ppm):				
	Heavy Metals (as Pb)	max. 5			
	Iron (Fe)	max. 5			

Manganese Dioxide

See Manganese(IV) Oxide



Manganese(IV) Oxide

0170 'BAKER ANALYZED'

▶ MnO₂

M = 86.94 g/mol

CAS NO. 1313-13-9

EINECS 215-202-6

NC CODE 2820 10 000

EC INDEX NO. 25 001 00 3

H: H302-H332

P: P261-P264-P301+P312-
P304+P340-P312-P501a

Warning

Assay (by EDTA titrn.)	min. 99.0%
Chloride (Cl)	max. 0.01%
Insoluble in HCl	max. 0.03%
Iron (Fe)	max. 0.05%
Nitrate (NO ₃)	max. 0.05%
Sulfate (SO ₄)	max. 0.08%

PRODUCT NO.	PACKING	CONT. BOX
0170.1000	1 kg	

Manganese(II) Sulfate Monohydrate

0174 'BAKER ANALYZED' / ACS

▶ MnSO₄·H₂O

M = 169.01 g/mol

CAS NO. 10034-96-5

EINECS 232-089-9

NC CODE 2833 29 900

EC INDEX NO. 25 003 00 4

UN/ID NO. 3077

ADR/RID 9 M7

IMDG 9/III

H: H373-H411

P: P260-P273-P314-P391-P501a



Warning

Exceeds ACS Specifications

Assay	98.0-101.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Ignition	10.0-12.0%
Magnesium (Mg)	max. 0.005%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Substances Reducing Permanganate	passes test
Zinc (Zn)	max. 0.005%

Trace Impurities (in ppm):

Copper (Cu)	max. 5
Nickel (Ni)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0174.1000	1 kg	

▶ Manganous Carbonate

See Manganese(II) Carbonate

Mannitol

1125 'BAKER ANALYZED' / ACS

▶ HOCH₂(CHOH)₄CH₂OH

M = 182.17 g/mol

CAS NO. 69-65-8

EINECS 200-711-8

NC CODE 2905 43 000

Meets ACS Specifications

Insoluble Matter	max. 0.01%
Loss on Drying at 105°C	max. 0.05%
Reducing Sugars	passes test
Residue after Ignition	max. 0.01%
Specific Rotation [α] _D ²⁰	+23.3° to +24.3°
Titration Acid (meq/g)	max. 0.0008

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1125.0250	250 g	
1125.1000	1 kg	6

Mannitol

1998 'BAKER'

▶ HOCH₂(CHOH)₄CH₂OH

M = 182.17 g/mol

CAS NO. 69-65-8

EINECS 200-711-8

NC CODE 2905 43 000

Assay (dried basis)	96.0-101.5%
Acidity	passes test
Arsenic (As)	max. 1 ppm
Chloride (Cl)	max. 0.007%
Identification	passes test
Loss on Drying at 105°C	max. 0.3%
Melting Range	164-169°C
Reducing Sugars	passes test
Specific rotation	+137° to +145°
Sulfate (SO ₄)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1998.1000	1 kg	6

▶ Marshall's Reagent

See Naphthyl Ethylenediamine Dihydrochloride

Mayer's Hematoxyline

See Hematoxyline

May Grünwald

HEMATOLOGY/CYTOLOGY/HISTOLOGY

3855

1 l = 0.79 kg
FLASHPOINT 11 °C
NC CODE 3204 12 000
UN/ID NO. 1230
ADR/RID 3 FT1
IMDG 3/II
H: H225-H301-H311-H330-H370
P: P210-P301+P310-P303+P361+P353-P310-P361-P405



Danger

May-Grünwald Eosine-Methylene Blue Solution modified for Microscopy (contains Methanol)

PRODUCT NO.	PACKING	CONT. BOX
3855.0500	500 ml Glass	
3855.1000	1 l Glass	
3855.2500	2.5 l Glass	
3855.9020PE	20 l jerrycan	
3855.9180ST	180 l Steel Drum	

2-Mercaptoethanol

'BAKER ULTRAPURE BIOREAGENT' / For Electrophoresis and other Molecular Biology Applications

4049

► HSCH₂CH₂OH
M = 78.13 g/mol
1 l = 1.11 kg
FLASHPOINT 74 °C
CAS NO. 60-24-2
EINECS 200-464-6
NC CODE 2930 90 700
UN/ID NO. 2966
ADR/RID 6.1 T1
IMDG 6.1/II
H: H301-H310-H314-H411
P: P301+P310-P303+P361+P353-P305+P351+P338-P310-P361-P405-P501a



Danger

Assay (by GC) min. 99.0%
 Appearance passes test
 DNase Activity none detected
 Protease Activity none detected
 RNase Activity none detected

Trace Impurities (in ppm):

Copper (Cu) max. 10
 Iron (Fe) max. 5
 Lead (Pb) max. 5
 Zinc (Zn) max. 5

PRODUCT NO.	PACKING	CONT. BOX
4049.0100	100 g	
4049.0500	500 g	

Mercury 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5768

► Hg
M = 200.59 g/mol
NC CODE 3822 00 000
EC INDEX NO. 7 004 00 1
H: H72-H373-H315-H319
P: P221-P210-P260-P220-P280-P305+P351+P338



Danger

Mercury (Hg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5768.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Mercury 1000 µg/ml

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6934

► Hg
M = 200.59 g/mol
NC CODE 3822 00 000
H: H373-H315-H319
P: P260-P280-P305+P351+P338-P362-P332+P313-P337+P313



Warning

Mercury (Hg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6934.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Mercur

Mercury 1000 µg/ml

6817

'BAKER ANALYZED' / Atomic Absorption Standard

▶ Hg

Mercury (Hg)

998-1002 µg/ml

M = 200.59 g/mol

NC CODE 3822 00 000

H: H373-H315

P: P260-P280-P264-P362-

P332+P313-P314



Warning

PRODUCT
NO.

PACKING

CONT.
BOX

6817.0100

100 ml

Mercury(II)nitrate in Nitric Acid 0.5 mol/l.

Mercury 10000 µg/ml

5736

(Matrix: 2% nitric acid) / 'BAKER INSTR-ANALYZED' / Plasma standard

▶ Hg

Mercury (Hg)

9980-10020 µg/ml

M = 200.59 g/mol

NC CODE 3822 00 000

EC INDEX NO. 7 004 00 1

H: H72-H373-H302-H315-H319-H412

P: P221-P210-P260-P220-P280-

P305+P351+P338



Danger

PRODUCT
NO.

PACKING

CONT.
BOX

5736.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Mercury(II) Acetate

1128

'BAKER ANALYZED' / ACS

▶ Hg(CH₃COO)₂

M = 318.68 g/mol

CAS NO. 1600-27-7

EINECS 216-491-1

NC CODE 2915 29 000

EC INDEX NO. 80 004 00 7

UN/ID NO. 1629

ADR/RID 6.1 T5

IMDG 6.1/II

H: H300-H310-H330-H373-H400-H410

P: P260-P301+P310-P310-P361-P405-P501a



Danger

Meets ACS Specifications

Assay	min. 98.0%
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Mercurous Mercury (as Hg)	max. 0.4%
Nitrate (NO ₃)	max. 0.005%
Other Heavy Metals (as Pb)	max. 0.002%
Residue after Reduction	max. 0.02%
Sulfate (SO ₄)	max. 0.005%

PRODUCT
NO.

PACKING

CONT.
BOX

1128.0500

500 g

Mercury(II) Chloride

1131

'BAKER ANALYZED' / ACS

▶ HgCl₂

M = 271.50 g/mol

CAS NO. 7487-94-7

EINECS 231-299-8

NC CODE 2827 39 800

EC INDEX NO. 80 010 00 0

UN/ID NO. 1624

ADR/RID 6.1 T5

IMDG 6.1/II

H: H300-H314-H341-H361f-H372-H400-H410

P: P301+P310-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Meets ACS Specifications

Assay	min. 99.5%
Iron (Fe)	max. 0.002%
Residue after Reduction	max. 0.02%
Solution in Ethyl Ether	passes test

PRODUCT
NO.

PACKING

CONT.
BOX

1131.0100

100 g

1131.0500

500 g

Mercury(II) Iodide, Red

'BAKER ANALYZED' / ACS

1133

▶ HgI₂

M = 454.40 g/mol

CAS NO. 7774-29-0

EINECS 231-873-8

NC CODE 2827 60 000

EC INDEX NO. 80 002 00 6

UN/ID NO. 1638

ADR/RID 6.1 T5

IMDG 6.1/II

H: H300-H310-H330-H373-
H400-H410P: P260-P301+P310-P310-P361-
P405-P501a

Danger

Meets ACS Specifications

Assay	min. 99.0%
Mercurous Mercury (as Hg)	max. 0.1%
Solubility in Potassium Iodide Solution	passes test
Soluble Mercury Salts (as Hg)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1133.0100	100 g	

Mercury(II) Nitrate Monohydrate

'BAKER ANALYZED'

1134

▶ Hg(NO₃)₂·H₂O

M = 342.62 g/mol

CAS NO. 10045-94-0

EINECS 233-152-3

NC CODE 2834 29 300

EC INDEX NO. 80 002 00 6

UN/ID NO. 1625

ADR/RID 6.1 T5

IMDG 6.1/II

H: H300-H310-H330-H373-
H400-H410P: P260-P301+P310-P310-P361-
P405-P501a

Danger

Assay	min. 99.0%
Chloride (Cl)	max. 0.002%
Iron (Fe)	max. 0.001%
Mercurous Mercury (as Hg)	max. 0.1%
Residue after Ignition	max. 0.01%
Sulfate (SO ₄)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
1134.0100	100 g	

Mercury (II) Nitrate

0.05 mol/l / 'BAKER ANALYZED'

7252

▶ Hg(NO₃)₂

M = 342.62 g/mol

1 l = 1.00 kg

NC CODE 2834 29 300

UN/ID NO. 2024

ADR/RID 6.1 T4

IMDG 6.1/II

H: H373-H302-H412

P: P260-P273-P264-P270-
P301+P312-P314

Warning

Titer	0.0495-0.0505 mol/l

PRODUCT NO.	PACKING	CONT. BOX
7252.1000	1 l	

Mercury(II) Oxide, Red

1136

'BAKER ANALYZED' / ACS

▶ HgO

M = 216.59 g/mol

CAS NO. 21908-53-2

EINECS 244-654-7

NC CODE 2825 90 500

EC INDEX NO. 80 002 00 6

UN/ID NO. 1641

ADR/RID 6.1 T5

IMDG 6.1/II

H: H300-H310-H330-H373-
H400-H410P: P260-P301+P310-P310-P361-
P405-P501a

Danger

Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.025%
Insoluble in Dilute HCl	max. 0.03%
Iron (Fe)	max. 0.005%
Nitrogen Compounds (as N)	max. 0.005%
Residue after Reduction	max. 0.025%
Sulfate (SO ₄)	max. 0.015%

PRODUCT NO.	PACKING	CONT. BOX
1136.0100	100 g	

Mercury(II) Sulfate

1140

'BAKER ANALYZED' / ACS

▶ HgSO₄

M = 296.65 g/mol

CAS NO. 7783-35-9

EINECS 231-992-5

NC CODE 2833 29 700

EC INDEX NO. 80 002 00 6

UN/ID NO. 1645

ADR/RID 6.1 T5

IMDG 6.1/II

H: H301-H310-H330-H373-
H400-H410P: P260-P301+P310-P310-P361-
P405-P501a

Danger

Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs

Assay	min. 99%
Chloride (Cl)	max. 0.003%
Iron (Fe)	max. 0.003%
Mercurous Mercury (as Hg)	max. 0.15%
Nitrate (NO ₃)	max. 0.005%
Residue after Reduction	max. 0.02%
Suitable for COD determination acc. NEN (max. 0.8 g Hg(II)SO ₄ /20 ml)	passes test

PRODUCT NO.	PACKING	CONT. BOX
1140.0100	100 g	6
1140.0500	500 g	6

Mercury(II) Sulfate

7464

200 g/l in dilute sulfuric acid / 'BAKER ANALYZED' / For the COD determination according DIN 38409-H43

EINECS 231-992-5

NC CODE 2833 29 700

UN/ID NO. 3289

ADR/RID 6.1 TC3

IMDG 6.1/II

H: H310-H330-H373-H302-H315-
H319-H411P: P260-P284-P305+P351+P338-
P310-P361-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
7464.1000	1 l	6
7464.2500	2.5 l	

Volumetric Solution, ready for use.



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PERFORMANCE MATERIALS

Mercury(II) Sulfate

80 g/l in 0.020 mol/l $K_2Cr_2O_7$ solution in sulfuric acid. / 'BAKER ANALYZED' / For COD determination according DIN 38409-H41

7135

1 l = 1.19 kg	Identity (Hg^{2+})	passes test
CAS NO. 7783-35-9	Molarity ($K_2Cr_2O_7$)	0.0198-0.0202
EINECS 231-992-5		
NC CODE 2833 29 700		
UN/ID NO. 3289		
ADR/RID 6.1 TC3		
IMDG 6.1/II		
H: H310-H330-H340-H350-H360-H314-H302-H411-EUH208		
P: P260-P303+P361+P353-P305+P351+P338-P310-P361-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
7135.1000	1 l	6
7135.2500	2.5 l	4

Volumetric Solution, ready for use.

Mercury(II) Sulfate

80 g/l in 0.04 mol/l $K_2Cr_2O_7$ solution in sulfuric acid / 'BAKER ANALYZED' / For the COD determination according AFNOR NFT 90-101

7642

1 l = 1.19 kg	Molarity (M)	0.0396 - 0.0404
CAS NO. 7783-35-9		
NC CODE 2833 29 700		
UN/ID NO. 3289		
ADR/RID 6.1 TC3		
IMDG 6.1/II		
H: H310-H330-H334-H340-H350-H360-H373-H314-H302-H317-H411		
P: P260-P303+P361+P353-P305+P351+P338-P310-P361-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
7642.1000	1 l	6
7642.2500	2.5 l	4

MES Monohydrate, Free Acid

See Morpholino)-ethanesulfonic Acid Monohydrate

Metaphosphoric Acid

See Phosphoric Acid

Methanal

See Formaldehyde solution

Methanoic Acid

See Formic Acid

Metha

Methanol

9077 'BAKER ULTRA RESI-ANALYZED' / For Purge and Trap analysis

► CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Assay (by GC) (corrected for water) min. 99.9%

Residue after Evaporation max. 1 ppm

Titration Acid (µeq/g) max. 0.3

Titration Base (µeq/g) max. 0.1

Water (by KF, coulometric) max. 0.08%

Performance Tested for Use in EPA Methods

500 Series for Drinking Water passes test

600 Series for Waste Water passes test

846 for Solid Waste passes test

Volatile Organic Trace Analysis: Gas**Chromatography with Purge and Trap Concentration.****(EPA Contract Required Quantitation Limit-CRQL):**

Electroconductivity Detection (ECLD),

Below CRQL passes test

Photoionization Detection (PID),

Below CRQL passes test

PRODUCT NO.	PACKING	CONT. BOX
9077.1000	1 l	6

Methanol

9263 'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

► CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Assay (by GC) (corrected for water) min. 99.8%

Acetone max. 0.001%

Color (APHA) max. 10

Residue after Evaporation max. 1 ppm

Substances Darkened by H₂SO₄ passes test

Titration Acid (µeq/g) max. 0.3

Titration Base (µeq/g) max. 0.1

Water (H₂O) (by Coulometry) max. 0.08%**Trace Organic Residues:**

ECD-Sensitive Impurities (as Heptachlor

Epoxide) Single Impurity Peak (pg/ml) max. 10

FID-Sensitive Impurities (as 2-Octanol)

Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9263.1000	1 l	6
9263.2500	2.5 l	4

Methanol

9863 BAKER Ultra LCMS ANALYZED Reagent / For Use in Liquid Chromatography and Mass Spectrometry

► CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Assay min. 99.9%

Appearance passes test

Color (APHA) max. 10

Residue after Evaporation max. 1.0 ppm

Water (H₂O) max. 500 ppm**Fluorescence Trace Impurities (as quinine base), ppb:**

at 450 nm Emission max. 0.3

at Emission Maximum for Impurities max. 1.0

Gradient Elution Test Ultraviolet Absorbance (a.u.):

at 254 nm max. 0.01

LC-MS Suitability

Largest Response on ESI-Negative Mode

(as 4-Nitrophenol) max. 25 ppb

Largest Response on ESI-Positive Mode

(as Reserpine) max. 25 ppb

Trace Impurities (in ppb):

Aluminium (Al) max. 10

Calcium (Ca) max. 20

Chromium (Cr) max. 5

Cobalt (Co) max. 5

Copper (Cu) max. 5

Iron (Fe) max. 5

Lead (Pb)	max. 5
Lithium (Li)	max. 10
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 5
Nickel (Ni)	max. 5
Potassium (K)	max. 10
Sodium (Na)	max. 50
Tin (Sn)	max. 5
Zinc (Zn)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
9863.1000	1 l Glass (Schott bottle)	6

Filtered through a 0.1 micron filter.

Methanol

BAKER ANALYZED LC-MS Reagent

9822

▶ CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-
P303+P361+P353-P361-P405-
P501a

Danger

Assay (by GC)	min. 99.8%
Residue after Evaporation	max. 1 ppm
Water (H ₂ O)	max. 0.02%

LC-Gradient-Diode Array Detection (a.u.), test solution is modified with 0.1%(v/v) formic acid:

at 235 nm	max. 0.005
at 254 nm	max. 0.001

LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:

Positive ESI-MS Sensitive Impurities (as Reserpine)	max. 50 ng/ml

Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 100
Magnesium (Mg)	max. 50
Sodium (Na)	max. 50

Ultraviolet Absorbance (1.00-cm path vs water):

at 225 nm	max. 0.20
at 254 nm	max. 0.02
at 280 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9822.1000GL	1 l Glass	6
9822.2500GL	2.5 l Glass	4

Element concentrations are at time of lot release.

Methanol

'BAKER HPLC ANALYZED' / HPLC Gradient Grade

8402

▶ CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-
P303+P361+P353-P361-P405-
P501a

Danger

Assay (by GC) (corrected for water)	min. 99.8%
Acetone	max. 0.001%
Residue after Evaporation (in ppm)	max. 2
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0001
Water (H ₂ O)	max. 0.02%

Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm	max. 0.3
Measured at Emission Maximum for Solvent Impurities	max. 1.0

Gradient Elution Test Ultraviolet Absorbance (a.u.):

at 235 nm	max. 0.005
at 254 nm	max. 0.001

Ultraviolet Absorbance (1.00-cm path vs water):

at 225 nm	max. 0.20
at 254 nm	max. 0.02
at 280 nm	max. 0.01
at 350 nm	max. 0.01
UV Cut-off, nm	max. 206

PRODUCT NO.	PACKING	CONT. BOX
8402.1000	1 l	6
8402.2500	2.5 l	4
8402.5000	5 l EcoTainer	4

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

EcoTainer, the metal solvent can for more safety in the lab.

Methanol

'BAKER HPLC ANALYZED' / HPLC Isocratic Grade

8404

▶ CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-
P303+P361+P353-P361-P405-
P501a

Danger

Assay (by GC)	min. 99.8%
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H ₂ O)	max. 0.05%

Ultraviolet Absorbance (1.00-cm path vs water):

at 225 nm	max. 0.30
at 240 nm	max. 0.10
at 265 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8404.1000	1 l	6
8404.2500	2.5 l	4
8404.5000	5 l EcoTainer	4
8404.9010RC	10 l Returnable Container	

EcoTainer, the metal solvent can for more safety in the lab.

Methanol

8046

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

▶ CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.8%
Appearance	clear
Carbonyl Compounds (max. 0.001% each of Acetone, Formaldehyde and Acetaldehyde)	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Solubility in Water	passes test
Substances Darkened by H ₂ SO ₄	passes test
Substances Reducing KMnO ₄	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H ₂ O)	max. 0.10%

Ultraviolet Absorbance (1.00-cm path vs water):

at 205 nm	max. 1.00
at 210 nm	max. 0.80
at 220 nm	max. 0.40
at 230 nm	max. 0.20
at 240 nm	max. 0.10
at 260 nm	max. 0.04
at 280-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8046.2500	2.5 l	4

Methanol

9097

BakerDRY / Low Water Solvent / ACS

▶ CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Meets ACS Specifications

Assay (CH ₃ OH)(by GC,corrected for water)	min. 99.8%
Appearance	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Solubility in Water	passes test
Substances Darkened by H ₂ SO ₄	passes test
Substances Reducing Permanganate	passes test
Titration Acid (µeq/g)	max. 0.3
Titration Base (µeq/g)	max. 0.2
Water (by KF, coulometric)	max. 30 ppm

Carbonyl Compounds:

Acetaldehyde	max. 0.001%
Acetone	max. 0.001%
Formaldehyde (HCHO)	max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
9097.1000	1 l	

Methanol

9049

max. 0.01% H₂O / 'BAKER ANALYZED' / Dried / ACS▶ CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.8%
Appearance	clear
Carbonyl Compounds (max. 0.001% each of Acetone, Formaldehyde and Acetaldehyde)	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Substances Darkened by H ₂ SO ₄	passes test
Substances Reducing KMnO ₄	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H ₂ O)	max. 0.01%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05

Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
9049.1000	1 l	6
9049.2500	2.5 l	4

Methanol

'BAKER ANALYZED' / ACS

8045

► CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.8%
Appearance	clear
Carbonyl Compounds (max. 0.001% each of Acetone, Formaldehyde and Acetaldehyde)	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Resistivity (megaohm-cm)	min. 0.1
Solubility in Water	passes test
Substances Darkened by H ₂ SO ₄	passes test
Substances Reducing KMnO ₄	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H ₂ O)	max. 0.05%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5

Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8045.1000	1 l	6
8045.2500	2.5 l	4
8045.2500PE	2.5 l HDPE	4
8045.5000PE	5 l HDPE	4
8045.9025	25 l	
8045.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Methanol

'BAKER ANALYZED'

2685

► CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Assay	min. 99.8%
Acetone	max. 30 ppm
Acidity (as CH ₃ COOH)	max. 0.003%
Appearance	passes test (clear)
Chloride (Cl)	max. 1 ppm
Distillation Range	max. 1.0°C
Ethanol (C ₂ H ₅ OH)	max. 50 ppm
Iron (Fe)	max. 0.1 mg/l
Residue after Evaporation	max. 10 ppm
Specific Gravity at 20°C/20°C	max. 793 kg/m ³
Substances Darkened by H ₂ SO ₄	passes test
Substances Reducing KMnO ₄	passes test
Water (H ₂ O)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
2685.9200ST	200 l Steel Drum	

Methanol

'BAKER'

8047

► CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

Assay	min. 99.5%
Acetone, Aldehydes (as Acetone)	max. 0.002%
Boiling Range (initial to dry point)	max. 2°C
Residue after Evaporation	max. 0.002%
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H ₂ O)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
8047.5000PE	5 l HDPE	4
8047.9200	200 l	

Methanol

3400 99.5% / HISTO GRADE

▶ CH₃OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 000

EC INDEX NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

H: H225-H301-H311-H331-H370

P: P210-P301+P310-

P303+P361+P353-P361-P405-

P501a



Danger

PRODUCT NO.	PACKING	CONT. BOX
3400.0500PE	500 ml HDPE	
3400.5000	5 l Jerrycan	
3400.9010	10 l Jerrycan	
3400.9025	25 l Jerrycan	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

2-Methoxyethanol

8084 'BAKER ANALYZED'

▶ CH₃OCH₂CH₂OH

M = 76.10 g/mol

1 l = 0.96 kg

FLASHPOINT 39 °C

CAS NO. 109-86-4

EINECS 203-713-7

NC CODE 2909 42 000

EC INDEX NO. 603 011 00 4

UN/ID NO. 1188

ADR/RID 3 F1

IMDG 3/III

H: H226-H302-H312-H332-H360FD

P: P210-P241-P261-

P303+P361+P353-P405-P501a



Danger

Assay (by GC)	min. 98%
Boiling Range	123-125°C
Color (APHA)	max. 10
Density (g/ml) at 20°C	0.964-0.966
Peroxide	passes test
Residue after Evaporation	max. 0.002%
Water (H ₂ O)	max. 0.2%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1

Lead (Pb)	max. 0.2
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 1.0

PRODUCT NO.	PACKING	CONT. BOX
8084.1000	1 l	6
8084.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Methyl Alcohol

See Methanol

p-(Methylamino)phenol Sulfate

2794 'BAKER ANALYZED' / ACS

▶ (CH₃NHC₆H₄OH)₂·H₂SO₄

M = 344.39 g/mol

CAS NO. 55-55-0

EINECS 200-237-1

NC CODE 2922 29 000

EC INDEX NO. 650 031 00 4

UN/ID NO. 3077

ADR/RID 9 M7

IMDG 9/III

H: H302-H317-H373-H400-H410

P: P260-P261-P280-P301+P312-

P363-P501a



Warning

Meets ACS Specifications

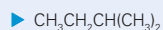
Assay	99.0-101.5%
Residue after Ignition	max. 0.1%
Suitability for Phosphate Determination	passes test

PRODUCT NO.	PACKING	CONT. BOX
2794.0500	500 g	

2-Methylbutane

'BAKER'

8113



M = 72.15 g/mol

1 l = 0.62 kg

FLASHPOINT -55 °C

CAS NO. 78-78-4

EINECS 201-142-8

NC CODE 2901 10 000

EC INDEX NO. 601 006 00 1

UN/ID NO. 1265

ADR/RID 3 F1

IMDG 3/I

H: H224-H304-H336-H411-EUH066

P: P210-P241-P261-P301+P310-

P303+P361+P353-P405



Danger

Assay (by GC)

min. 99%

Boiling Point

275-28.5°C

Residue after Evaporation

max. 0.005%

PRODUCT

PACKING

CONT.

NO.

BOX

8113.1000

1 l

6

8113.9025

25 l

For safe handling of 25 l tin cans, see Self-closing tap.

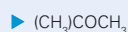
3-Methyl-1-butanol

See Isoamyl Alcohol

Methyl tert-Butyl Ether

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

9043



M = 88.15 g/mol

1 l = 0.74 kg

FLASHPOINT -28 °C

CAS NO. 1634-04-4

EINECS 216-653-1

NC CODE 2909 19 000

UN/ID NO. 2398

ADR/RID 3 F1

IMDG 3/I

H: H225-H315

P: P210-P241-P280-

P303+P361+P353-P362-P501a



Danger

Assay (by GC) (corrected for water)

min. 99.0%

Peroxide (as H_2O_2)

max. 1 ppm

Residue after Evaporation

max. 2 ppm

Water (H_2O) (by Coulometry)

max. 0.05%

Trace Organic Residues:

ECD-Sensitive Impurities (as Heptachlor Epoxide)

Single Impurity Peak (pg/ml)

max. 10

FID-Sensitive Impurities (as 2-Octanol) Single

Impurity Peak (ng/ml)

max. 10

PRODUCT

PACKING

CONT.

NO.

BOX

9043.1000

1 l

9043.4000

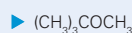
4 l Glass

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Methyl tert-Butyl Ether

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

9042



M = 88.15 g/mol

1 l = 0.74 kg

FLASHPOINT -28 °C

CAS NO. 1634-04-4

EINECS 216-653-1

NC CODE 2909 19 000

UN/ID NO. 2398

ADR/RID 3 F1

IMDG 3/I

H: H225-H315

P: P210-P241-P280-

P303+P361+P353-P362-P501a



Danger

Assay

min. 99.0%

Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm

value on certificate

Measured at Emission Maximum

value on certificate

Limits of Impurities:

Peroxide (as H_2O_2)

max. 1 ppm

Residue after Evaporation

max. 3 ppm

Water (H_2O) (by Karl Fischer titrn.)

max. 0.05%

Product Information (not specifications):

Density (g/ml) at 20°C

0.740

Ultraviolet Absorbance (1.00-cm path vs water):

at 254 nm

max. 0.1

at 280 nm

max. 0.02

at 350 nm

max. 0.01

UV Cut-off, nm

max. 215

PRODUCT

PACKING

CONT.

NO.

BOX

9042.1000

1 l

6

9042.2500

2.5 l

4

9042.5000

5 l EcoTainer

EcoTainer, the metal solvent can for more safety in the lab.

Packaged under Nitrogen.

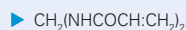
Methyl Cyanide

See Acetonitrile

N,N'-Methylenbisacrylamide

4031

'BAKER ULTRAPURE BIOREAGENT' / Purified for Electrophoresis

**M** = 154.20 g/mol**CAS NO.** 110-26-9**EINECS** 203-750-9**NC CODE** 2924 19 000**H:** H302**P:** P264-P270-P301+P312-P330-P501a

Warning

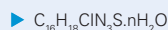
Assay	min. 99.5%
Acrylic acid ($\text{CH}_2:\text{CHCOOH}$)	max. 0.01%
Conductivity of 2% Solution (μmho)	max. 10
DNase Activity	none detected
pH of 1% Aqueous Solution at 25°C	min. 5.3
Protease Activity	none detected
RNase Activity	nonen detected
Absorbance of a 1% Solution (1-cm path vs water):	
at 290 nm	max. 0.2

PRODUCT NO.	PACKING	CONT. BOX
4031.0025	25 g Glass	
4031.0100	100 g	

Methylene Blue

1329

'BAKER ANALYZED'

**M** = 319.86 g/mol**CAS NO.** 61-73-4**EINECS** 200-515-2**NC CODE** 2934 30 900**H:** H302**P:** P264-P270-P301+P312-P330-P501a

Warning

Appearance	passes test
Solubility	passes test
Zinc (Zn)	passes test

PRODUCT NO.	PACKING	CONT. BOX
1329.0025	25 g Glass	6
1329.0100GL	100 g Glass	

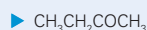
Methylenechloride

See Dichloromethane

Methyl Ethyl Ketone

8052

'BAKER ANALYZED'

**M** = 72.11 g/mol**1 l** = 0.80 kg**FLASHPOINT** -1 °C**CAS NO.** 78-93-3**EINECS** 201-159-0**NC CODE** 2914 12 000**EC INDEX NO.** 606 002 00 3**UN/ID NO.** 1193**ADR/RID** 3 F1**IMDG** 3/II**H:** EUH066-H225-H319-H336**P:** P210-P241-P303+P361+P353-P305+P351+P338-P405-P501a

Danger

Assay (by GC)	min. 99%
Acidity (as CH_3COOH)	max. 0.003%
Boiling Range	max. 1.5°C
Density (g/ml) at 25°C	0.797-0801
Recorded Boiling Point	79.6°C
Residue after Evaporation	max. 0.001%
Water (H_2O) (by Karl Fischer titrn.)	max. 0.2%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

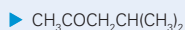
PRODUCT NO.	PACKING	CONT. BOX
8052.1000	1 l	6
8052.2500	2.5 l	4
8052.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Methyl Isobutyl Ketone

ULTREX Ultrapure Reagent / For Trace Metal Analysis

4855

**M** = 100.16 g/mol**1 l** = 0.80 kg**FLASHPOINT** 17 °C**CAS NO.** 108-10-1**EINECS** 203-550-1**NC CODE** 2914 13 000**EC INDEX NO.** 606 004 00 4**UN/ID NO.** 1245**ADR/RID** 3 F1**IMDG** 3/II**H:** EUH066-H225-H319-H332-H335**P:** P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC) (corrected for water)	99.0-100.0%
Density (g/ml) at 25°C	act. value reported
Residue after Evaporation	information only
Titration Acid (µeq/g)	act. value reported
Water (H ₂ O) (by Karl Fischer titrn.)	information only

Metallic Impurities (in ppb)(ng/g):

Bismuth (Bi)	max. 1
Cadmium (Cd)	max. 1
Chromium (Cr)	max. 2
Cobalt (Co)	max. 2
Copper (Cu)	max. 1
Gallium (Ga)	max. 1
Iron (Fe)	max. 2
Lead (Pb)	max. 1
Manganese (Mn)	max. 1
Mercury (Hg)	max. 5
Molybdenum (Mo)	max. 1
Nickel (Ni)	max. 1
Silver (Ag)	max. 1
Thallium (Tl)	max. 1
Tin (Sn)	max. 1
Vanadium (V)	max. 1
Zinc (Zn)	max. 10
Zirconium (Zr)	max. 1

Ultraviolet Absorbance, (1.00-cm path vs water)

(curve smooth throughout stated range with no extraneous impurity peaks):

at 335 nm	act. value reported
at 340 nm	act. value reported
at 350 nm	act. value reported
at 360 nm	act. value reported
at 380 nm	act. value reported
at 400 nm	act. value reported

Windows of Infrared Transmittance (0.1-mm path, 50-100% T), µm:

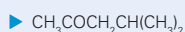
10.9-11.7	passes test
12.0-15.0	passes test
2.5-2.9	passes test
3.6-5.5	passes test
6.2-6.4	passes test
9.2-9.9	passes test

PRODUCT NO.	PACKING	CONT. BOX
4855.1000	1 l	

Methyl Isobutyl Ketone

PHOTREX Reagent / For Spectrophotometry / ACS

8224

**M** = 100.16 g/mol**1 l** = 0.80 kg**FLASHPOINT** 17 °C**CAS NO.** 108-10-1**EINECS** 203-550-1**NC CODE** 2914 13 000**EC INDEX NO.** 606 004 00 4**UN/ID NO.** 1245**ADR/RID** 3 F1**IMDG** 3/II**H:** EUH066-H225-H319-H332-H335**P:** P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Meets ACS Specifications

Assay (by GC) (corrected for water)	min. 98.5%
Appearance	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Titration Acid (meq/g)	max. 0.002
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.05%

Product Information (not specifications):

Boiling Point (typical)	115.5°C
Density (g/ml) at 25°C (typical)	0.796

Ultraviolet Absorbance (1.00-cm path vs water):

at 335 nm	max. 1.00
at 340 nm	max. 0.50
at 350 nm	max. 0.25
at 360 nm	max. 0.15
at 380 nm	max. 0.02
at 400 nm	max. 0.01

Windows of Infrared Transmittance (0.1-mm path, 50-100% T), µm:

10.9-11.7	passes test
12.0-15.0	passes test
2.5-3.2	passes test
3.6-5.5	passes test
6.2-6.4	passes test
9.2-9.9	passes test

PRODUCT NO.	PACKING	CONT. BOX
8224.0500	500 ml	

Methyl Isobutyl Ketone

8049

'BAKER ANALYZED' / ACS

▶ $\text{CH}_3\text{COCH}_2\text{CH}(\text{CH}_3)_2$ **M** = 100.16 g/mol**1 l** = 0.80 kg**FLASHPOINT** 17 °C**CAS NO.** 108-10-1**EINECS** 203-550-1**NC CODE** 2914 13 000**EC INDEX NO.** 606 004 00 4**UN/ID NO.** 1245**ADR/RID** 3 F1**IMDG** 3/II**H:** EUH066-H225-H319-H332-H335**P:** P210-P241-P303+P361+P353-

P305+P351+P338-P405-P501a



Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water) min. 99%

Appearance clear

Color (APHA) max. 15

Residue after Evaporation max. 0.002%

Titrable Acid (meq/g) max. 0.002

Water (H_2O) (by Karl Fischer titrn.) max. 0.1%**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg) max. 0.1

Manganese (Mn) max. 0.02

Nickel (Ni) max. 0.02

Tin (Sn) max. 0.1

Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX

8049.1000 1 l 6

8049.2500 2.5 l 4

8049.5000 5 l EcoTainer

8049.9025 25 l

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

Methyl Orange

7136

0.1% in H_2O / 'BAKER ANALYZED'**NC CODE** 3204 13 000**Visual Transition Interval:**

pH 3.2 pink or red

pH 4.4 yellow

PRODUCT NO.	PACKING	CONT. BOX

7136.0250 250 ml

Solution, ready for use.

Methyl Orange Sodium Salt

1145

'BAKER ANALYZED' / ACS

▶ $4\text{-(CH}_3)_2\text{NC}_6\text{H}_4\text{N:NC}_6\text{H}_4\text{-4-SO}_3\text{Na}$ **M** = 327.34 g/mol**CAS NO.** 547-58-0**EINECS** 208-925-3**NC CODE** 2927 00 000**UN/ID NO.** 3143**ADR/RID** 6.1 T2**IMDG** 6.1/III**H:** H301**P:** P264-P270-P301+P310-P330-

P405-P501a



Danger

Meets ACS Specifications

Clarity of Solution passes test

Visual Transition Interval:

pH 3.2 pink or red

pH 4.4 yellow

PRODUCT NO.	PACKING	CONT. BOX

1145.0100 100 g

C.I. 13025.

▶ Methyloxirane

See Propylene Oxide

▶ 4-Methyl-2-pentanone

See Methyl Isobutyl Ketone

▶ 2-Methyl-1-propanol

See Isobutyl Alcohol

1-Methyl-2-pyrrolidone

'BAKER BIO-ANALYZED'

9261

▶ C₅H₉NO

M = 99.13 g/mol

1 l = 1.03 kg

FLASHPOINT 95 °C

CAS NO. 872-50-4

EINECS 212-828-1

NC CODE 2933 79 000

EC INDEX NO. 606 021 00 7

H: H315-H319-H335-H360D

P: P261-P280-P281-

P305+P351+P338-P405-P501a



Danger

Assay (C₅H₉NO)

min. 99.5%

Color (APHA)

max. 20

Free Amines (as CH₃NH₂)

max. 0.01 %

Heavy Metals (as Pb)

max. 0.1 ppm

Residue after Ignition

max. 10 ppm

Water (H₂O) (by Coulometry)

max. 200 ppm

Ultraviolet Absorbance (1.00-cm path vs water):

at 300 nm

max. 0.5

at 325 nm

max. 0.1

at 350 nm

max. 0.03

at 400 nm

max. 0.01

UV Cut-off, nm

max. 285

PRODUCT

PACKING

CONT.

NO.

BOX

9261.4000GL

4 l Glass

1-Methyl-2-pyrrolidone

'BAKER ANALYZED' / For Peptide Synthesis

9345

▶ C₅H₉NO

M = 99.13 g/mol

1 l = 1.03 kg

FLASHPOINT 95 °C

CAS NO. 872-50-4

EINECS 212-828-1

NC CODE 2933 79 000

EC INDEX NO. 606 021 00 7

H: H315-H319-H335-H360D

P: P261-P280-P281-

P305+P351+P338-P405-P501a



Danger

Assay

min. 99.5%

Color (APHA)

max. 20

Free Amines (as CH₃NH₂)

max. 0.01 %

Water (H₂O)

max. 200 ppm

PRODUCT

PACKING

CONT.

NO.

BOX

9345.4000GL

4 l Glass

Methyl Red

'BAKER ANALYZED'

1146

▶ (CH₃)₂NC₆H₄N:NC₆H₄COOH

M = 269.31 g/mol

CAS NO. 493-52-7

EINECS 207-776-1

NC CODE 2927 00 000

Insoluble Matter in Alcohol

passes test

Visual Transition Interval:

pH 4.2

pink

pH 6.2

yellow

PRODUCT

PACKING

CONT.

NO.

BOX

1146.0025

25 g Glass

C.I. 13020.

Methyl Red

0.1% in ethanol / 'BAKER ANALYZED'

7137

1 l = 0.80 kg

FLASHPOINT 11 °C

NC CODE 2927 00 000

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

H: H225

P: P210-P240-P241-P280-

P303+P361+P353-P403+P235



Danger

Visual Transition Interval:

pH 4.2

pink

pH 6.2

yellow

PRODUCT

PACKING

CONT.

NO.

BOX

7137.0250

250 ml

Excluding excise.

Solution, ready for use.

Methylsulfoxide

See Dimethyl Sulfoxide

Metol

See Methyldimethylphenol Sulfate

Mixed

Mixed Calibration Standard III

6003-01 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Elemental Concent (µg/ml):

Arsenic (As)	500
Molybdenum (Mo)	100
Silicon (Si)	100

PRODUCT NO.	PACKING	CONT. BOX

6003-01 100 ml

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

Mixed Calibration Standard IV

6004-01 (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

NC CODE 3822 00 000

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Elemental Concent (µg/ml):

Aluminium (Al)	200
Calcium (Ca)	1000
Chromium (Cr)	20
Nickel (Ni)	20
Potassium (K)	400
Sodium (Na)	200

PRODUCT NO.	PACKING	CONT. BOX

6004-01 100 ml

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

Mixed Calibration Standard V

6005-01 Matrix: 5% HNO₃ and a trace of tartaric acid / 'BAKER INSTRA-ANALYZED' / Plasma standard

NC CODE 3822 00 000

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Elemental Concent (µg/ml):

Antimony (Sb)	200
Boron (B)	100
Magnesium (Mg)	1000
Silver (Ag)	50
Thallium (Tl)	200

PRODUCT NO.	PACKING	CONT. BOX

6005-01 100 ml

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

Mohr's Salt

See Ammonium Iron(II) Sulfate Hexahydrate

Molecular Sieve 3Å

1569 8-12 mesh / 'BAKER ANALYZED'

NC CODE 3824 90 150

Loss on Drying at 300°C

max. 5%

PRODUCT NO.	PACKING	CONT. BOX

1569.1000 1 kg

Molecular Sieve 4Å

0810 8-12 mesh / 'BAKER ANALYZED'

NC CODE 3824 90 150

Loss on Drying at 300°C

max. 5%

PRODUCT NO.	PACKING	CONT. BOX

0810.1000 1 kg

Activated.

WWW.AVANTORMATERIALS.COM

Molybdenum 1000 µg/ml

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5769

▶ Mo	Molybdenum (Mo)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 95.94 g/mol			5769.0100	100 ml	
NC CODE 3822 00 000					
H: EUH210-H315-H319					
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362					
					
Warning					
					Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.
					The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Molybdenum 1000 µg/ml

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6935

▶ Mo	Molybdenum (Mo)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 95.94 g/mol			6935.0100	100 ml	
NC CODE 3822 00 000					
H: EUH210-H315-H319					
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362					
					
Warning					
					Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Molybdenum 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6818

▶ Mo	Molybdenum (Mo)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 95.94 g/mol			6818.0100	100 ml	
NC CODE 3822 00 000					
H: EUH210-H315-H318					
P: P264-P280-P305+P351+P338-P310-P332+P313-P362					
					
Danger					
					Ammonium Heptamolybdate in Ammonium Hydroxide 0.5 mol/l.

Molybdenum 10000 µg/ml

(Matrix: 4% Ammonium Hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5737

▶ Mo	Molybdenum (Mo)	9980-10020 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 95.94 g/mol			5737.0100	100 ml	
NC CODE 3822 00 000					
H: EUH210-H315-H318					
P: P264-P280-P305+P351+P338-P310-P332+P313-P362					
					
Danger					
					Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.
					The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

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Molybdc Acid

0176 powder / 'BAKER ANALYZED' / ACS

CAS NO. 7782-91-4
EINECS 231-970-5
NC CODE 2825 70 000
UN/ID NO. 3288
ADR/RID 6.1 T5
IMDG 6.1/III
H: H319-H335-H373
P: P260-P261-P280-P305+P351+P338-P405-P501a



Warning

Meets ACS Specifications

Assay (as MoO ₃)	min. 85.0%
Arsenate, Phosphate and Silicate (as SiO ₂)	max. 0.001%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.003%
Insoluble in Dilute NH ₄ OH	max. 0.01%
Sulfate (SO ₄)	max. 0.2%
Trace Impurities (in ppm):	
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0176.0250	250 g	

Molybdc Acid Reagent is commonly known as Molybdc Acid 85% and consists largely of Ammonium Molybdate.

▶ **Monochloroacetic Acid**

See ChloroAcetic Acid

▶ **Monochlorobenzene**

See Chlorobenzene

▶ **Monoethanolamine**

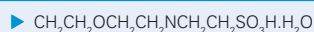
See Ethanolamine

▶ **3-(4-Morpholine)propanesulfonic Acid, sodium salt**

See MOPS, Sodium salt

4014 **2-(N-Morpholino)-ethanesulfonic Acid Monohydrate**

crystal / 'BAKER ULTRAPURE BIOREAGENT' / Buffer for Liquid Chromatography and Molecular Biology applications



M = 213.25 g/mol

CAS NO. 4432-31-9**EINECS** 224-632-3**NC CODE** 2934 90 960

Assay	min. 98%
Colour of a 1M Alkaline Solution	passes test
DNase Activity	none detected
Identification (by IR)	passes test
Loss on Drying at 130°C	7-10%
Protease Activity	none detected
RNase Activity	none detected

Product Information (not specifications):

pKa at 20°C 6.15

Trace Impurities (in ppm):

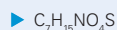
Heavy Metals (as Pb) max. 2

PRODUCT NO.	PACKING	CONT. BOX
4014.0200	200 g	
4014.1000	1 kg	

Other pack sizes available on request.

4004 **Morpholinopropane Sulfonic acid**

'BAKER ULTRAPURE BIOREAGENT'



M = 209.26 g/mol

CAS NO. 1132-61-2**EINECS** 214-478-5**NC CODE** 2934 99 900

Assay (dried basis)	min. 99%
Appearance	passes test
DNase Activity	none detected
Loss on Drying	max. 1%
pH of 1% Solution at 25°C	2.5-4.5
Protease Activity	none detected
RNase Activity	none detected
Solution (10% in water)	passes test

Absorbance of a 0.1M Solution (1-cm path vs water):

at 260 nm max. 0.02

Product Information (not specifications):

pKa at 20°C 7.20

Trace Impurities (in ppm):

Heavy Metals (as Pb) max. 5

Iron (Fe) max. 5

PRODUCT NO.	PACKING	CONT. BOX
4004.0100	100 g	
4004.0500	500 g	
4004.2500	2.5 kg	

MOPS, Sodium salt
 'BAKER ULTRAPURE BIOREAGENT'

4163

▶ $C_{77}H_{14}NNaO_4S$	Assay (dried basis)	min. 99.0%
M = 231.25 g/mol	Appearance	passes test
CAS NO. 7119-22-7	DNase Activity	none detected
NC CODE 2934 99 900	Heavy Metals (as Pb)	max. 5 ppm
	Identification (by IR)	passes test
	Insoluble Matter	max. 1.0%
	Loss on Drying	max. 1.0%
	pH of 0.1 M Solution at 25°C	10.0-11.0
	Protease Activity	none detected
	RNase Activity	none detected
	Solubility	passes test
	Absorbance of a 1 M Solution, Maximum (1-cm path vs water):	
	at 260 nm	max. 0.03
	Product Information (not specifications):	
	pKa at 20°C	7.20

PRODUCT NO.	PACKING	CONT. BOX
4163.0100	100 g	

MountingClear

HISTO GRADE / Intended for use as a Alcohol-Mountant intermediate during coverslipping in Histology and Cytology

3904

1 l = 0.69 kg	Aromates (by UV)	not detected
FLASHPOINT -12 °C	Assay (by GC)(2,2,4 Trimethylpentane)	min. 90% (w/w)
CAS NO. 540-84-1	Color (APHA)	max. 10
NC CODE 2901 10 000		
EC INDEX NO. 601 009 00 8		
UN/ID NO. 1262		
ADR/RID 3 F1		
IMDG 3/II		
H: H225-H304-H315-H336-H400-H410		
P: P210-P241-P261-P301+P310-P303+P361+P353-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
3904.2500	2.5 l Glass	

Mounting medium

See UltraKitt

Multi Element Interference Check Standard II

See Interference Check Standard II

Multi-Element ICS Solution AB-1&AB-2

See ICS Solution AB-1 & AB-2

Multi-Element ICV Solution I & II

See ICV Solution I & II

Multi-Element Interference Check Standard I

See Interference Check Standard I

Multi-Element Interference Check Standard IV

See Interference Check Standard IV

Multi-Element Mixed Calibration Standard III

See Mixed Calibration Standard III

Multi-Element Mixed Calibration Standard IV

See Mixed Calibration Standard IV

Multi-Element Mixed Calibration Standard V

See Mixed Calibration Standard V

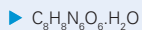
Multi-Element Primary Drinking Water Std I

See Primary Drinking Water Standard I

 A
B
C
D
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▶ **Multi-Element Trace Metal Standard I**[See Trace Metal Standard I](#)▶ **Multi-Element Trace metal Standard III**[See Trace Metal Standard III](#)▶ **Multi-Element Water Standard I & II**[See Water Standard I & II](#)**Murexide**

1149 'BAKER ANALYZED'



M = 302.22 g/mol

CAS NO. 3051-09-0

EINECS 221-266-6

NC CODE 2933 54 000

Sensitivity as Indicator

passes test

PRODUCT
NO.

PACKING

CONT.
BOX

1149.0025

25 g Glass

1-Naphthol

1150 'BAKER ANALYZED'



M = 144.17 g/mol

CAS NO. 90-15-3

EINECS 201-969-4

NC CODE 2907 15 100

EC INDEX NO. 604 029 00 5

H: H302-H312-H315-H318-H335

P: P261-P280-P305+P351+P338-

P310-P405-P501a



Danger

Assay

min. 99%

Melting Point

93-96°C

Residue after Ignition

max. 1%

PRODUCT
NO.

PACKING

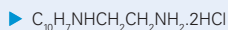
CONT.
BOX

1150.0100

100 g

N-(1-Naphthyl) Ethylenediamine Dihydrochloride

1341 'BAKER ANALYZED' / For Nitrogen Dioxide Determination (ASTM D-1607) / ACS



M = 259.18 g/mol

CAS NO. 1465-25-4

EINECS 215-981-2

NC CODE 2921 59 900

H: H315-H319

P: P264-P280-P305+P351+P338-

P332+P313-P337+P313-P362



Warning

Meets ACS Specifications. Meets Reagent**Specifications for testing USP/NF monographs**

Sensitivity for Sulfanilamide passes test

Solubility passes test

Suitability for Nitrogen Dioxide Determination

(ASTM D1607)

passes test

Water (H₂O) (by Karl Fischer titrn.)

max. 5%

PRODUCT
NO.

PACKING

CONT.
BOX

1341.0025

25 g Glass

Marshall's Reagent.

▶ **Neocuproine Hydrochloride**[See Dimethyl-1,10-phenanthroline Hydrochloride](#)**Nickel 1000 µg/ml**

5770 (Matrix: 2% nitric acid) / 'BAKER INSTRALYZED' / Plasma standard



M = 58.69 g/mol

NC CODE 3822 00 000

EC INDEX NO. 7 004 00 1

H: EUH208-H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

Nickel (Ni)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5770.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Nickel 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6936

▶ Ni

M = 58.69 g/mol

NC CODE 3822 00 000

H: EUH208-H315-H319

P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Nickel (Ni)

998-1002 µg/ml

PRODUCT NO.

PACKING

CONT. BOX

6936.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Nickel 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6819

▶ Ni

M = 58.69 g/mol

NC CODE 3822 00 000

H: EUH208-H315

P: P264-P280-P302+P352-P321-P332+P313-P362



Warning

Nickel (Ni)

998-1002 µg/ml

PRODUCT NO.

PACKING

CONT. BOX

6819.0100

100 ml

Nickel Nitrate in Nitric Acid 0.5 mol/l.

Nickel 10000 µg/ml

1.00% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5738

▶ Ni

M = 58.69 g/mol

NC CODE 3822 00 000

EC INDEX NO. 7 004 00 1

H: H272-H315-H317-H319-H351-H373

P: P210-P220-P221-P260-P305+P351+P338-P405



Danger

Nickel (Ni)

9980-10020 µg/ml

PRODUCT NO.

PACKING

CONT. BOX

5738.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Nickel(II) Carbonate

'BAKER ANALYZED'

0181

CAS NO. 3333-67-3

EINECS 222-068-2

NC CODE 2836 99 180

EC INDEX NO. 28 010 00 0

H: H302-H315-H317-H332-H334-H341-H350i-H360D-H372-H400-H410

P: P260-P261-P280-P285-P405-P501a



Danger

Assay (as Ni) (by EDTA titrn.)

min. 45.0%

Chloride (Cl)

max. 0.002%

Cobalt (Co) (by AAS)

max. 0.1%

Copper (Cu) (by AAS)

max. 0.01%

Insoluble in HCl

max. 0.01%

Iron (Fe) (by AAS)

max. 0.004%

Lead (Pb) (by AAS)

max. 0.002%

Nitrogen Compounds (as N)

max. 0.02%

Sulfate (SO₄)

max. 0.01%

Zinc (Zn) (by AAS)

max. 0.01%

PRODUCT NO.

PACKING

CONT. BOX

0181.0500

500 g



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Nickel(II) Chloride Hexahydrate

0183

'BAKER'

▶ NiCl₂·6H₂O

M = 237.71 g/mol

CAS NO. 7791-20-0

EINECS 231-743-0

NC CODE 2827 35 000

UN/ID NO. 3288

ADR/RID 6.1 T5

IMDG 6.1/III

H: H301-H311-H330-H350

P: P260-P301+P310-P310-P361-

P405-P501a



Danger

Assay (by EDTA titrn.)

min. 96%

Insoluble Substances

max. 0.01%

Lead (Pb)

max. 0.01%

pH of 5% Solution at 25°C

3.0-7.0

PRODUCT

PACKING

CONT.

NO.

0183.2500

2.5 kg

BOX

Nickel(II) Oxide Green

1153

Powder / 'BAKER ANALYZED' / For Electronic Ceramics

▶ NiO

M = 74.71 g/mol

CAS NO. 1313-99-1

EINECS 215-215-7

NC CODE 2825 40 000

EC INDEX NO. 28 003 00 2

H: H317-H350i-H372-H413

P: P260-P261-P280-P281-P405-

P501a



Danger

Assay (by EDTA titrn.)

min 99.0%

Aluminium (Al)

max. 0.005%

Average Particle Diameter, µm (APD)

max. 3

Bulk Density (g/cc)

act. value reported

Calcium (Ca)

max. 0.005%

Chloride (Cl)

max. 0.001%

Cobalt (Co)

max. 0.2%

Copper (Cu)

max. 0.005%

Iron (Fe)

max. 0.01%

Lead (Pb)

max. 0.01%

Nitrogen Compounds (as N)

max. 0.005%

Potassium (K)

max. 0.005%

Silicon (Si)

max. 0.01%

Sodium (Na)

max. 0.02%

Specific Surface Area, m²/g

act. value reported

Total Sulfur (S)

max. 0.01%

Zinc (Zn)

max. 0.02%

Mesh (Wet Screen Analysis):

On U.S. No. 325 Sieve

act. value reported

PRODUCT

PACKING

CONT.

NO.

1153.2500

2.5 kg

BOX

Nickel(II) Sulfate Hexahydrate

0185

'BAKER ANALYZED' / ACS

▶ NiSO₄·6H₂O

M = 262.86 g/mol

CAS NO. 10101-97-0

EINECS 232-104-9

NC CODE 2833 24 000

EC INDEX NO. 28 009 00 5

UN/ID NO. 3077

ADR/RID 9 M7

H: H301-H317-H334-H351-

H400-H410

P: P261-P280-P285-P301+P310-

P405-P501a



Danger

Meets ACS Specifications

Assay

98.0-102.0%

Calcium (Ca)

max. 0.005%

Chloride (Cl)

max. 0.001%

Cobalt (Co)

max. 0.002%

Copper (Cu)

max. 0.005%

Insoluble Matter

max. 0.005%

Iron (Fe)

max. 0.001%

Magnesium (Mg)

max. 0.005%

Manganese (Mn)

max. 0.002%

Nitrogen Compounds (as N)

max. 0.002%

Potassium (K)

max. 0.01%

Sodium (Na)

max. 0.05%

PRODUCT

PACKING

CONT.

NO.

0185.0250

250 g

BOX

0185.1000

1 kg

Niobium 1000 µg/ml

5771

(Matrix: H₂O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Nb

M = 92.91 g/mol

NC CODE 3822 00 000

H: 20/21/22-36

P: 26-36/37

Niobium (Nb)

998-1002 µg/ml

PRODUCT

PACKING

CONT.

NO.

5771.0100

100 ml

BOX

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Niobium 10000 µg/ml

1.00% (w/v) / (Matrix: H₂O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5760

► Nb

M = 92.91 g/mol

NC CODE 3822 00 000

H: 20/21/22-36

P: 26-36/37

Niobium (Nb)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5760.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Nitric Acid

70% / ULTREX II Ultrapure Reagent

6901

► HNO₃

M = 63.01 g/mol

1 l = 1.41 kg

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

EC INDEX NO. 7 004 00 1

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay

67-70% (w/w)

Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 20
Antimony (Sb)	max. 10
Arsenic (As)	max. 20
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Boron (B)	max. 20
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 20
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Gold (Au)	max. 20
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 20
Lanthanum (La)	max. 1
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 1
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 50
Niobium (Nb)	max. 1
Palladium (Pd)	max. 20
Platinum (Pt)	max. 20
Potassium (K)	max. 10
Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Ruthenium (Ru)	max. 20

Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 10
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 20
Titanium (Ti)	max. 10
Tungsten (W)	max. 10
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 10

PRODUCT
NO.

PACKING

CONT.
BOX

6901.0500

500 ml Fluoropolymer, pre-leached

6901.1000

1 l Fluoropolymer, pre-leached

6901.2000

2 l Fluoropolymer, pre-leached

Nitric Acid

9598

69.0-70.0 % / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis / ACS

▶ HNO₃

M = 63.01 g/mol

1 l = 1.42 kg

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

EC INDEX NO. 7 004 00 1

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Meets ACS Specifications

Assay	69.0-70.0%
Appearance	passes test
Color (APHA)	max. 10
Residue after Ignition	max. 2 ppm
Specific Gravity at 60°/60°F	1.416-1.420
Trace Impurities (in ppb):	
Aluminium (Al)	max. 30
Arsenic and Antimony (as As)	max. 5
Barium (Ba)	max. 1
Beryllium (Be)	max. 1
Bismuth (Bi)	max. 1
Boron (B)	max. 4
Cadmium (Cd)	max. 1
Calcium (Ca)	max. 50
Chromium (Cr)	max. 10
Cobalt (Co)	max. 1
Copper (Cu)	max. 1
Gallium (Ga)	max. 20
Germanium (Ge)	max. 4
Gold (Au)	max. 4
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 10
Lead (Pb)	max. 0.5
Lithium (Li)	max. 1
Magnesium (Mg)	max. 7

Manganese (Mn)	max. 1
Mercury (Hg)	max. 0.5
Molybdenum (Mo)	max. 5
Nickel (Ni)	max. 1
Niobium (Nb)	max. 1
Potassium (K)	max. 5
Silicon (Si)	max. 20
Silver (Ag)	max. 1
Sodium (Na)	max. 200
Strontium (Sr)	max. 1
Tantalum (Ta)	max. 2
Thallium (Tl)	max. 5
Tin (Sn)	max. 5
Vanadium (V)	max. 1
Zinc (Zn)	max. 5
Zirconium (Zr)	max. 1
Trace Impurities (in ppm):	
Chloride (Cl)	max. 0.04
Phosphate (PO ₄)	max. 0.1
Sulfate (SO ₄)	max. 0.4

PRODUCT NO.	PACKING	CONT. BOX
9598.0500	500 ml	6
9598.2500	2.5 l	4

Nitric Acid

6019

69.0-70.0 % / 'BAKER ANALYZED' / ACS

▶ HNO₃

M = 63.01 g/mol

1 l = 1.42 kg

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

EC INDEX NO. 7 004 00 1

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay	69.0-70.0%
Appearance	passes test
Chloride (Cl)	max. 0.1 ppm
Color (APHA)	max. 10
Phosphate (PO ₄)	max. 0.2 ppm
Residue after Ignition	max. 4 ppm
Specific Gravity at 60°/60°F	1.416 - 1.420
Sulfate (SO ₄)	max. 0.5 ppm
Trace Impurities (in ppb):	
Aluminium (Al)	max. 100
Arsenic and Antimony (as As)	max. 4
Boron (B)	max. 50
Calcium (Ca)	max. 200
Chromium (Cr)	max. 100
Copper (Cu)	max. 50
Gold (Au)	max. 200
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 100
Lead (Pb)	max. 100
Magnesium (Mg)	max. 100
Manganese (Mn)	max. 100
Mercury (Hg)	max. 5
Nickel (Ni)	max. 50
Potassium (K)	max. 300
Tin (Sn)	max. 200
Titanium (Ti)	max. 200
Zinc (Zn)	max. 200

PRODUCT NO.	PACKING	CONT. BOX
6019.2500	2.5 l	4
6019.9200	200 l	

Nitric Acid

69.0-70.0 % / 'BAKER ANALYZED' / ACS

6020

▶ HNO₃

M = 63.01 g/mol

1 l = 1.42 kg

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

EC INDEX NO. 7 004 00 1

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H72-H314

P: P221-P210-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay	69.0-70.0%
Appearance	passes test
Chloride (Cl)	max. 0.1 ppm
Color (APHA)	max. 10
Phosphate (PO ₄)	max. 0.2 ppm
Residue after Ignition	max. 4 ppm
Specific Gravity at 60°/60°F	1.416 - 1.420
Sulfate (SO ₄)	max. 0.5 ppm

Trace Impurities (in ppb):

Aluminium (Al)	max. 100
Arsenic and Antimony (as As)	max. 4
Boron (B)	max. 50
Calcium (Ca)	max. 200
Chromium (Cr)	max. 100
Copper (Cu)	max. 50
Gold (Au)	max. 200
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 100
Lead (Pb)	max. 100
Magnesium (Mg)	max. 100
Manganese (Mn)	max. 100
Mercury (Hg)	max. 5

Nickel (Ni)	max. 50
Potassium (K)	max. 300
Tin (Sn)	max. 200
Titanium (Ti)	max. 200
Zinc (Zn)	max. 100

PRODUCT NO.	PACKING	CONT. BOX
6020.2500PE	2.5 l HDPE	4

NOTE: Safe handling of this product-packaging combination is not guaranteed two years after the date indicated by the time indicator on the bottom of the bottle. Two years after this date the bottle should be destroyed.

Nitric Acid

67-69% / 'BAKER INSTRA-ANALYZED'

9601

▶ HNO₃

M = 63.01 g/mol

1 l = 1.42 kg

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

EC INDEX NO. 7 004 00 1

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	67-69%
Chloride (Cl)	max. 0.2
Color (APHA)	max. 10

Trace Impurities (in ppb):

Aluminium (Al)	max. 1
Antimony (Sb)	max. 1
Arsenic (As)	max. 1
Barium (Ba)	max. 1
Beryllium (Be)	max. 1
Bismuth (Bi)	max. 1
Boron (B)	max. 1
Cadmium (Cd)	max. 1
Calcium (Ca)	max. 1
Cerium (Ce)	max. 0.5
Cesium (Cs)	max. 0.5
Chromium (Cr)	max. 1
Cobalt (Co)	max. 1
Copper (Cu)	max. 1
Dysprosium (Dy)	max. 0.5
Erbium (Er)	max. 0.5
Europium (Eu)	max. 0.5
Gadolinium (Gd)	max. 0.5
Gallium (Ga)	max. 0.5
Germanium (Ge)	max. 0.5
Gold (Au)	max. 0.5
Hafnium (Hf)	max. 0.5
Holmium (Ho)	max. 0.5
Indium (In)	max. 0.5
Iron (Fe)	max. 1
Lanthanum (La)	max. 0.5
Lead (Pb)	max. 1
Lithium (Li)	max. 1
Lutetium (Lu)	max. 0.5
Magnesium (Mg)	max. 1
Manganese (Mn)	max. 1
Mercury (Hg)	max. 1
Molybdenum (Mo)	max. 1
Neodymium (Nd)	max. 0.5
Nickel (Ni)	max. 1

Niobium (Nb)	max. 0.5
Palladium (Pd)	max. 0.5
Platinum (Pt)	max. 0.5
Potassium (K)	max. 1
Praseodymium (Pr)	max. 0.5
Rhenium (Re)	max. 0.5
Rhodium (Rh)	max. 0.5
Rubidium (Rb)	max. 0.5
Ruthenium (Ru)	max. 0.5
Samarium (Sm)	max. 0.5
Scandium (Sc)	max. 0.5
Selenium (Se)	max. 1
Silver (Ag)	max. 1
Sodium (Na)	max. 1
Strontium (Sr)	max. 1
Tantalum (Ta)	Information Only
Tellurium (Te)	max. 0.5
Terbium (Tb)	max. 0.5
Thallium (Tl)	max. 0.5
Thorium (Th)	max. 1
Thulium (Tm)	max. 0.5
Tin (Sn)	max. 1
Titanium (Ti)	max. 1
Tungsten (W)	max. 0.5
Uranium (U)	max. 1
Vanadium (V)	max. 1
Ytterbium (Yb)	max. 0.5
Yttrium (Y)	max. 0.5
Zinc (Zn)	max. 1
Zirconium (Zr)	max. 1

Trace Impurities (in ppm):

Total Phosphorus	max. 0.01
Total Sulfur (S)	max. 0.3

PRODUCT NO.	PACKING	CONT. BOX
9601.1000PC	1 l Coated	6
9601.2500PL	2.5 l Glass, Poly Coated	4

Nitric Acid

6080 65% (max. 5 ppb Hg) / 'BAKER ANALYZED'

▶ HNO₃

M = 63.01 g/mol

1 l = 1.40 kg

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

EC INDEX NO. 7 004 00 1

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	min. 65%
Chloride (Cl)	max. 0.5 ppm
Dithizone determination	passes test
Mercury (Hg)	max. 5 ppb
Residue after Ignition	max. 5 ppm
Sulfate (SO ₄)	max. 1 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6080.1000	1 l	6
6080.2500	2.5 l	4
6080.9025	25 l	

Nitric Acid

6090 65% (max. 5 ppb Hg) / 'BAKER ANALYZED'

▶ HNO₃

M = 63.01 g/mol

1 l = 1.40 kg

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

EC INDEX NO. 7 004 00 1

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	min. 65%
Chloride (Cl)	max. 0.5 ppm
Dithizone determination	passes test
Residue after Ignition	max. 5 ppm
Sulfate (SO ₄)	max. 1 ppm

Trace Impurities (in ppb):

Aluminium (Al)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Copper (Cu)	max. 0.01
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Mercury (Hg)	max. 5 ppb
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Titanium (Ti)	max. 0.1
Zinc (Zn)	max. 0.05

Trace Impurities (in ppm):

Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Cobalt (Co)	max. 0.01
Germanium (Ge)	max. 0.05
Lithium (Li)	max. 0.01
Molybdenum (Mo)	max. 0.02
Silver (Ag)	max. 0.01

Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Vanadium (V)	max. 0.01
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6090.2500PE	2.5 l HDPE	4

NOTE: Safe handling of this product-packaging combination is not guaranteed two years after the date indicated by the time indicator on the bottom of the bottle. Two years after this date the bottle should be destroyed.

Nitric Acid

2 mol/l / 'BAKER ANALYZED'

7119

▶ HNO₃

Titer (mol/l)

1.995 - 2.005

M = 63.01 g/mol

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

UN/ID NO. 2031

ADR/RID 8 CO1

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT
NO.

PACKING

CONT.
BOX

7119.1000

1 l

6

7119.5000

5 l

7119.9020

20 l

Volumetric Solution, ready for use.

Nitric Acid

1 mol/l / 'BAKER ANALYZED'

7622

▶ HNO₃

Titer (mol/l)

0.995-1.005

M = 63.01 g/mol

CAS NO. 7697-37-2

EINECS 231-714-2

NC CODE 2808 00 000

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT
NO.

PACKING

CONT.
BOX

7622.9020

20 l Polycube

Volumetric Solution, ready for use.

Nitric Acid

1 mol/l / DILUT-IT

4868

1 l = 1.38 kg

NC CODE 2808 00 000

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT
NO.

PACKING

CONT.
BOX

4868

1 Amp.

Volumetric Concentrate, for dilution to 1 l.

p-Nitrophenylphosphate, Disodium Salt

'BAKER ANALYZED'

3351

▶ NO₂C₆H₄OPO₃Na₂·6H₂O

Assay

about 70%

M = 371.15 g/mol

Free p-nitrophenol

max. 0.07%

CAS NO. 4264-83-9

EINECS 224-246-5

NC CODE 2919 00 900

PRODUCT
NO.

PACKING

CONT.
BOX

3351.0005

5 g

3351.0025

25 g Glass

iso-Octane

See Trimethylpentane



1-Octanesulfonic Acid Sodium Salt

2818 'BAKER ANALYZED' / For Use in Ion-Pair Chromatography

▶ $\text{CH}_3(\text{CH}_2)_7\text{SO}_3\text{Na}$

M = 216.27 g/mol

CAS NO. 5324-84-5

EINECS 226-195-4

NC CODE 2904 10 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Meets Reagent Specifications for testing USP/NF monographs

Assay (acidimetric) min. 98.0%

UV Absorbance of 0.25M Solution:

at 200 nm	max. 0.2
at 210 nm	max. 0.08
at 220 nm	max. 0.06
at 230 nm	max. 0.05
at 240 nm	max. 0.05
at 250 nm	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
2818.0025	25 g Glass	

▶ Oil of Cedarwood

See Cedarwood Oil

▶ Oleic Acid Sodium Salt

See Sodium Oleate

Orange G

4425 Certified Stain / 'BAKER ANALYZED' / Certified for Use in Histology

▶ $\text{C}_{16}\text{H}_{10}\text{N}_2\text{Na}_2\text{O}_7\text{S}_2$

M = 452.38 g/mol

CAS NO. 1936-15-8

EINECS 217-705-6

NC CODE 3204 12 000

Absorbance at maximum (3.0 mg/200 ml in

 H_2O , 1-cm path) act. value reported

Absorbance Maximum, nm act. value reported

Biological Test passes test

Total Dye Content act. value reported

PRODUCT NO.	PACKING	CONT. BOX
4425.0025	25 g Glass	

Certified by the Biological Stain Commission.

C.I. 16230.

▶ Orange III

See Methyl Orange Sodium Salt

▶ Orthoperiodic Acid

See Periodic Acid

▶ Orthophosphoric Acid

See Phosphoric Acid

Oxalic Acid Dihydrate

0187 'BAKER ANALYZED' / ACS

▶ $\text{HOCOCOOH} \cdot 2\text{H}_2\text{O}$

M = 126.07 g/mol

CAS NO. 6153-56-6

EINECS 205-634-3

NC CODE 2917 11 000

EC INDEX NO. 607 006 00 8

H: H302

P: P264-P270-P301+P312-P330-
P501a

Warning

Exceeds ACS Specifications

Assay 99.5-102.5%

Insoluble Matter max. 0.005%

Nitrogen Compounds (as N) max. 0.001%

Residue after Ignition max. 0.01%

Substances Darkened by Hot H_2SO_4 passes testSulfate (SO_4) max. 0.002%**Trace Impurities (in ppm):**

Calcium (Ca) max. 5

Chloride (Cl) max. 5

Heavy Metals (as Pb) max. 5

Iron (Fe) max. 2

PRODUCT NO.	PACKING	CONT. BOX
0187.1000	1 kg	6
0187.9025	25 kg	

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AVANTOR
PERFORMANCE MATERIALS

Oxalic Acid

0.05 mol/l 0.1N / 'BAKER ANALYZED'

7141

EINECS 205-634-3
NC CODE 2917 11 000

Titer (mol/l) 0.0497-0.0503

PRODUCT NO.	PACKING	CONT. BOX
7141.1000	1 l	
7141.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Oxalic Acid

0.05 mol/l / DILUT-IT / $1/10$ equiv. = 4.502g; 0.1 N

4665

► HOCOCOOH

M = 90.04 g/mol

EINECS 205-634-3
NC CODE 2917 11 000

H: EUH210

PRODUCT NO.	PACKING	CONT. BOX
4665	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

Oxidizing (ABI)

'BAKER ANALYZED' / For DNA/RNA synthesis

9488

FLASHPOINT -14 °C
NC CODE 3822 00 000
UN/ID NO. 1993
ADR/RID 3 F1
IMDG 3/II

H: H225-H319-H335+H336-EUH019

P: P210-P241-P261-
P303+P361+P353-
P305+P351+P338-P405



Danger

Assay Pyridine 18.5-21.0% (v/v)
Molarity (Iodine) 0.018-0.022

PRODUCT NO.	PACKING	CONT. BOX
9488.0200	200 ml Glass	
9488.0450	450 ml Glass	
9488.2500	2.5 l Glass	

Suitable for Oligonucleotide synthesis.

Oxidizing (ABI)

'BAKER ANALYZED' / For DNA/RNA synthesis

9519

FLASHPOINT -21 °C
NC CODE 3822 00 000
UN/ID NO. 1993
ADR/RID 3,3b
IMDG 3.1/II

H: EUH019-H225-H319-H335+H336

P: P210-P241-P261-
P303+P361+P353-
P305+P351+P338-P405



Danger

Assay Iodine (g/l) 3.87-4.73
Assay Iodine (mol/l) 0.015-0.019

PRODUCT NO.	PACKING	CONT. BOX
9519.0200	200 ml Glass	
9519.0900	900 ml Glass	

Suitable for Oligonucleotide synthesis.



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Palladium 1000 µg/ml

5772 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard



M = 106.42 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Palladium (Pd)

998-1002 µg/ml

**PRODUCT
NO.****PACKING****CONT.
BOX**

5772.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Palladium 1000 µg/ml

6953 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard



M = 106.42 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Palladium (Pd)

998-1002 µg/ml

**PRODUCT
NO.****PACKING****CONT.
BOX**

6953.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Palladium 10000 µg/ml

5739 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard



M = 106.42 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Palladium (Pd)

9980-10020 µg/ml

**PRODUCT
NO.****PACKING****CONT.
BOX**

5739.0100

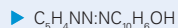
100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

PAN

1156 Powder / 'BAKER ANALYZED'



M = 249.28 g/mol

CAS NO. 85-85-8

EINECS 201-637-9

NC CODE 2933 39 950

Sensitivity as Indicator

passes test

**PRODUCT
NO.****PACKING****CONT.
BOX**

1156.0001

1 g

Papanicolaou solution 2a, Orange G solution OG6

3864 Cytology

FLASHPOINT 12 °C

NC CODE 2207 10 000

UN/ID NO. 1992

ADR/RID 3 FT1

IMDG 3/II

H: H225-H332-H371

P: P210-P241-P260-P261-
P303+P361+P353-P405

Danger

Staining solution used in the Papanicolaou procedure. For cytological cancer and cycle diagnosis

**PRODUCT
NO.****PACKING****CONT.
BOX**

3864.1000

1 l Glass

3864.2500

2.5 l Glass

3864.9200

200 l HDPE

Papanicolaou solution 2b, Orange II solution

Cytology

3865

FLASHPOINT 12 °C
NC CODE 2207 10 000
UN/ID NO. 1992
ADR/RID 3 FT1
IMDG 3/II
H: H225-H332-H371
P: P210-P241-P260-P261-P303+P361+P353-P405



Danger

Staining solution used in the Papanicolaou procedure. For cytological cancer and cycle diagnosis

PRODUCT NO.	PACKING	CONT. BOX
3865.1000	1 l Glass	
3865.2500	2.5 l Glass	
Excluding excise.		

Papanicolaou solution 3b, Polychrome solution EA 50

Cytology

3866

FLASHPOINT 12 °C
NC CODE 2207 10 000
UN/ID NO. 1992
ADR/RID 3 FT1
IMDG 3/II
H: H225-H370-H312-H332
P: P210-P241-P260-P261-P303+P361+P353-P405



Danger

Staining solution used in the Papanicolaou procedure. For cytological cancer and cycle diagnosis

PRODUCT NO.	PACKING	CONT. BOX
3866.1000	1 l Glass	
3866.2500	2.5 l Glass	
3866.9200	200 l HDPE	

Paraffin

Liquid / 'BAKER'

7160

1 l = 0.88 kg
FLASHPOINT 199 °C
CAS NO. 8012-95-1
EINECS 232-384-2
NC CODE 2712 20 100

Color (APHA) max. 20
 Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
7160.1000	1 l	6

Paraffin Cleaner

HISTO GRADE

3451

FLASHPOINT 57 °C
NC CODE 3822 00 000
UN/ID NO. 1993
ADR/RID 3 F1
IMDG 3/III
H: H304-H318-H226-H336-H413-EUH066
P: P210-P301+P310-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
3451.1500	125 ml glass x 12	

Paraffin for Histology

See UltraPar (54-56°C)

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Penta

Pentane

8239 Mixed Isomers / 'BAKER'

▶ C₅H₁₂

M = 72.15 g/mol

1 l = 0.62 kg

FLASHPOINT -40 °C

CAS NO. 109-66-0

EINECS 203-692-4

NC CODE 2901 10 000

EC INDEX NO. 601 006 00 1

UN/ID NO. 1265

ADR/RID 3 F1

IMDG 3/I

H: EUH066-H225-H304-H336-H411

P: P210-P241-P301+P310-

P303+P361+P353-P405-P501a



Danger

Boiling Range

34-37°C

PRODUCT
NO.

PACKING

CONT.
BOX

8239.2500

2.5 l

8239.9200

200 l



iso-Pentane

See Methylbutane

n-Pentane

9333 'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis

▶ CH₃(CH₂)₃CH₃

M = 72.15 g/mol

1 l = 0.62 kg

FLASHPOINT -40 °C

CAS NO. 109-66-0

EINECS 203-692-4

NC CODE 2901 10 000

EC INDEX NO. 601 006 00 1

UN/ID NO. 1265

ADR/RID 3 F1

IMDG 3/I

H: EUH066-H225-H304-H336-H411

P: P210-P241-P301+P310-

P303+P361+P353-P405-P501a



Danger

Assay (by GC) (corrected for water)

min. 99.0%

Color (APHA)

max. 10

Residue after Evaporation

max. 1 ppm

Substances Darkened by H₂SO₄

passes test

Water (by KF, coulometric)

max. 100 ppm

Neat Solvent Front Characterization:

ECD-Sensitive Impurities (as Ethylene Dibromide)

Single Impurity Peak (ng/ml)

max. 5

Trace Organic Residues:

ECD-Sensitive Impurities (as Heptachlor Epoxide)

Single Impurity Peak (pg/ml)

max. 10

FID-Sensitive Impurities (as 2-Octanol)

Single Impurity Peak (ng/ml)

max. 5

PRODUCT
NO.

PACKING

CONT.
BOX

9333.1000

1 l

9333.4000

4 l Glass

MEETS SPECIFICATIONS WITHIN THE EXPIRATION
PERIOD

9331

n-Pentane

'BAKER HPLC ANALYZED' / For Use in Liquid Chromatography and Spectrophotometry

▶ CH₃(CH₂)₃CH₃

M = 72.15 g/mol

1 l = 0.62 kg

FLASHPOINT -40 °C

CAS NO. 109-66-0

EINECS 203-692-4

NC CODE 2901 10 000

EC INDEX NO. 601 006 00 1

UN/ID NO. 1265

ADR/RID 3 F1

IMDG 3/I

H: EUH066-H225-H304-H336-H411

P: P210-P241-P301+P310-

P303+P361+P353-P405-P501a



Danger

Assay (by GC) (corrected for water)

min. 99.0%

Residue after Evaporation

max. 1 ppm

Substances Darkened by H₂SO₄

passes test

Water (by KF, coulometric)

max. 0.01%

Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm

max. 0.5

Measured at Emission Maximum for Solvent

Impurities

max. 1.5

Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm

max. 0.4

at 220 nm

max. 0.10

at 245-400 nm

max. 0.01

UV Cut-off, nm

max. 190

PRODUCT
NO.

PACKING

CONT.
BOX

9331.1000

1 l

9331.2500

2.5 l

9331.4000

4 l Glass

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

n-Pentane
 'BAKER ANALYZED'

8114

▶ $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$
M = 72.15 g/mol
1 l = 0.62 kg
FLASHPOINT -40 °C
CAS NO. 109-66-0
EINECS 203-692-4
NC CODE 2901 10 000
EC INDEX NO. 601 006 00 1
UN/ID NO. 1265
ADR/RID 3 F1
IMDG 3/I
H: EUH066-H225-H304-H336-H411
P: P210-P241-P301+P310-
 P303+P361+P353-P405-P501a



Danger

Assay (by GC) min. 99%
 Boiling Range 35-37°C
 Density (g/ml) at 20°C 0.624-0.626
 Residue after Evaporation max. 0.001%
 Sulfur Compounds (as S) max. 0.005%
 Water (H_2O) max. 0.01%

Trace Impurities (in ppm):

Aluminium (Al) max. 0.5
 Barium (Ba) max. 0.1
 Boron (B) max. 0.02
 Cadmium (Cd) max. 0.05
 Calcium (Ca) max. 0.5
 Chromium (Cr) max. 0.02
 Cobalt (Co) max. 0.02
 Copper (Cu) max. 0.02
 Iron (Fe) max. 0.1
 Lead (Pb) max. 0.1
 Magnesium (Mg) max. 0.1
 Manganese (Mn) max. 0.02
 Nickel (Ni) max. 0.02
 Tin (Sn) max. 0.1
 Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8114.1000	1 l	6
8114.2500	2.5 l	4
8114.5000	5 l EcoTainer	
8114.9025	25 l	
8114.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.
 For safe handling of 25 l tin cans, see Self-closing tap.

n-Pentane
 'BAKER'

8685

▶ $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$
M = 72.15 g/mol
1 l = 0.62 kg
FLASHPOINT -40 °C
CAS NO. 109-66-0
EINECS 203-692-4
NC CODE 2901 10 000
EC INDEX NO. 601 006 00 1
UN/ID NO. 1265
ADR/RID 3 F1
IMDG 3/I
H: EUH066-H225-H304-H336-H411
P: P210-P241-P301+P310-
 P303+P361+P353-P405-P501a



Danger

Assay (by GC) min. 95%
 Residue after Evaporation max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
8685.9200	200 l	

1-Pentanesulfonic Acid Sodium Salt
 'BAKER HPLC ANALYZED' / For Ion-Pair Chromatography of Basic Compounds

2841

▶ $\text{CH}_3(\text{CH}_2)_4\text{SO}_3\text{Na}$
M = 174.21 g/mol
CAS NO. 22767-49-3
EINECS 245-208-4
NC CODE 2904 10 000

Assay (acidimetric) min. 98.0%
UV Absorbance of 0.25M Solution:
 at 200 nm max. 0.2
 at 210 nm max. 0.08
 at 220 nm max. 0.06
 at 230 nm max. 0.05
 at 240 nm max. 0.05
 at 250 nm max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
2841.0025	25 g Glass	
2841.0100	100 g	

1-Pentanol
 See Amyl Alcohol


Perchloric Acid

4806 70% / ULTREX II Ultrapure Reagent

► HClO₄

M = 100.46 g/mol

1 l = 1.67 kg

CAS NO. 7601-90-3

EINECS 231-512-4

NC CODE 2811 19 800

EC INDEX NO. 17 006 00 4

UN/ID NO. 1873

ADR/RID 5.1 CO1

IMDG 5.1/I

H: 35-5-8

P: 23-26-36-45

Assay

65-71%

Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 100
Antimony (Sb)	max. 100
Arsenic (As)	max. 100
Barium (Ba)	max. 100
Beryllium (Be)	max. 100
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 100
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Cobalt (Co)	max. 100
Copper (Cu)	max. 100
Dysprosium (Dy)	max. 10
Erbium (Er)	max. 10
Europium (Eu)	max. 10
Gadolinium (Gd)	max. 10
Gallium (Ga)	max. 10
Hafnium (Hf)	act. value reported
Holmium (Ho)	max. 10
Indium (In)	max. 10
Iron (Fe)	max. 100
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 100
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 100
Manganese (Mn)	max. 100
Molybdenum (Mo)	max. 100
Neodymium (Nd)	max. 10
Nickel (Ni)	max. 100

Niobium (Nb)

act. value reported

Palladium (Pd)	max. 10
Platinum (Pt)	max. 100
Potassium (K)	max. 100
Praseodymium (Pr)	max. 10
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Samarium (Sm)	max. 10
Scandium (Sc)	max. 100
Silver (Ag)	max. 100
Sodium (Na)	max. 100
Strontium (Sr)	max. 100
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 10
Terbium (Tb)	max. 10
Thallium (Tl)	max. 100
Thorium (Th)	max. 10
Thulium (Tm)	max. 10
Tin (Sn)	max. 100
Titanium (Ti)	max. 100
Tungsten (W)	act. value reported
Uranium (U)	max. 10
Vanadium (V)	max. 100
Ytterbium (Yb)	max. 10
Yttrium (Y)	max. 10
Zinc (Zn)	max. 100
Zirconium (Zr)	max. 100

PRODUCT NO.	PACKING	CONT. BOX
4806.0500	500 ml	

Perchloric Acid

6022 70-72% / 'BAKER ANALYZED' / ACS

► HClO₄

M = 100.46 g/mol

1 l = 1.67 kg

CAS NO. 7601-90-3

EINECS 231-512-4

NC CODE 2811 19 800

EC INDEX NO. 17 006 00 4

UN/ID NO. 1873

ADR/RID 5.1 OC1

IMDG 5.1/I

H: H271-H314

P: P221-P283-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Exceeds ACS Specifications

Assay	70.0-72.0%
Chloride (Cl)	max. 0.0003%
Color (APHA)	max. 10
Free Chlorine	max. 5 ppm
Insoluble in Ethanol	max. 0.001%
Nitrogen Compounds (as N)	max. 0.001%
Residue after Ignition	max. 0.003%
Silicate and Phosphate (as SiO ₂)	max. 5 ppm
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.3
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.10

Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6022.1000GL	1 l Glass	6
6022.2500	2.5 l	4

Perchloric Acid

69-72 % / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis / ACS

9653

▶ HClO₄

M = 100.46 g/mol

1 l = 1.67 kg

CAS NO. 7601-90-3

EINECS 231-512-4

NC CODE 2811 19 800

EC INDEX NO. 17 006 00 4

UN/ID NO. 1873

ADR/RID 5.1 CO1

IMDG 5.1/I

H: H271-H314

P: P221-P283-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets ACS Specifications

Assay	69.0-72.0%
Color (APHA)	max. 10
Residue after Ignition	max. 10 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Barium (Ba)	max. 0.1
Cadmium (Cd)	max. 0.005
Calcium (Ca)	max. 1
Chloride (Cl)	max. 10
Chromium (Cr)	max. 0.05
Cobalt (Co)	max. 0.005
Copper (Cu)	max. 0.05
Heavy Metals (as Pb)	max. 0.1
Iron (Fe)	max. 0.05
Lead (Pb)	max. 0.01
Lithium (Li)	max. 0.1
Magnesium (Mg)	max. 0.05
Manganese (Mn)	max. 0.005
Mercury (Hg)	max. 0.005
Nickel (Ni)	max. 0.005
Nitrogen Compounds (as N)	max. 10
Potassium (K)	max. 0.5
Silicate and Phosphate (as SiO ₂)	max. 5
Silicon (Si)	max. 0.1
Silver (Ag)	max. 0.005
Sodium (Na)	max. 1
Strontium (Sr)	max. 0.02
Sulfate (SO ₄)	max. 10
Tin (Sn)	max. 0.01
Zinc (Zn)	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
9653.0500	500 ml	6

Perchloric Acid

60-62% / 'BAKER ANALYZED' / ACS

6023

▶ HClO₄

M = 100.46 g/mol

1 l = 1.54 kg

CAS NO. 7601-90-3

EINECS 231-512-4

NC CODE 2811 19 800

EC INDEX NO. 17 006 00 4

UN/ID NO. 1873

ADR/RID 5.1 CO1

IMDG 5.1/I

H: H226-H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Exceeds ACS Specifications

Assay	60.0-62.0%
Chloride (Cl)	max. 0.001%
Color (APHA)	max. 10
Nitrogen Compounds (as N)	max. 0.001%
Residue after Ignition	max. 0.003%
Silicate and Phosphate (as SiO ₂)	max. 5 ppm
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.3
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.10
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01

Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6023.1000	1 l	6
6023.2500	2.5 l	4

Perch

Perchloric acid in anhydrous Acetic Acid

7221 0.5 mol/l / 'BAKER ANALYZED'

NC CODE 3822 00 000 Titer (mol/l) 0.49-0.51

UN/ID NO. 2789

ADR/RID 8 CF1

IMDG 8/II

H: H226-H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO. 7221.1000 PACKING 1 l CONT. BOX

Volumetric Solution, ready for use.

Perchloric acid in anhydrous Acetic Acid

7142 0.1 mol/l / 'BAKER ANALYZED'

NC CODE 3822 00 000 Titer (mol/l) 0.098-0.102

UN/ID NO. 2789

ADR/RID 8 CF1

IMDG 8/II

H: H226-H272-H314

P: P221-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

PRODUCT NO. 7142.1000 PACKING 1 l CONT. BOX 6

Volumetric Solution, ready for use.

▶ Perchloroethylene

See Tetrachloroethylene

Periodic Acid

1366 'BAKER ANALYZED'

▶ H₅IO₆

M = 227.94 g/mol

CAS NO. 10450-60-9

EINECS 233-937-0

NC CODE 2811 19 800

UN/ID NO. 3085

ADR/RID 5.1 OC2

IMDG 5.1/I

H: H272-H314

P: P221-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay min. 99.5%
Insoluble Matter max. 0.005%
Iodide (I) max. 0.001%
Residue after Ignition max. 0.5%
Sulfate (SO₄) max. 0.01%

PRODUCT NO. 1366.0025 1366.0100 PACKING 25 g Glass 100 g CONT. BOX

Petroleum Ether

9272 20-40°C / 'BAKER ANALYZED'

1 l = 0.59 kg

FLASHPOINT -50 °C

CAS NO. 8032-32-4

EINECS 232-453-7

NC CODE 2710 11 210

UN/ID NO. 1268

ADR/RID 3 F1

IMDG 3/II

H: H304-H340-H350

P: P201-P281-P301+P310-
P308+P313-P331-P405

Danger

Acidity passes test
Appearance and Color passes test
Boiling Range 20-40°C
Heavy Oils and Fats passes test
Odor (faint) passes test
Residue after Evaporation max. 0.002%

PRODUCT NO. 9272.4000S PACKING 4 l Safetainer CONT. BOX

Petroleum Ether

30-60°C / 'BAKER RESI-ANALYZED' / For Organic Residue Analysis

9265

1 l = 0.64 kg
FLASHPOINT -57 °C
CAS NO. 8032-32-4
EINECS 232-453-7
NC CODE 2710 11 210
UN/ID NO. 1268
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H411
P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Boiling Range (initial to dry point) 30-60°C
 Color (APHA) max. 10
 Residue after Evaporation max. 5 ppm
 Water (by KF, coulometric) max. 0.05%

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml) max. 10

FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml) max. 5

Neat solvent front characterization: ECD-Sensitive Impurities (as Ethylene Dibromide):

Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9265.1000	1 l	
9265.2500	2.5 l	4

Petroleum Ether

30-60°C / 'BAKER ANALYZED' / For Hydrocarbon Oil Index determination

9266

1 l = 0.64 kg
FLASHPOINT -57 °C
CAS NO. 8032-32-4
EINECS 232-453-7
NC CODE 2710 11 210
UN/ID NO. 1268
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H411
P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Color (APHA) max. 10
 Residue after Evaporation max. 5 ppm
 Water (H₂O) max. 0.05%

Hydrocarbon Oil Index Concentration (as RIVM oil reference standard):

Total peaks between n-decane (C₁₀H₂₂) and n-tetracontane (C₄₀H₈₂) max. 0.5 mg/l

PRODUCT NO.	PACKING	CONT. BOX
9266.2500	2.5 l	

Suitable for determination of Hydrocarbon Oil Index according to ISO 9377-2 and NEN 5733.

Petroleum Ether

35-60°C / PHOTREX Reagent / For Spectrophotometry

9270

1 l = 0.64 kg
FLASHPOINT -57 °C
CAS NO. 8032-32-4
EINECS 232-453-7
NC CODE 2710 11 210
UN/ID NO. 1268
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H411
P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Acidity passes test
 Boiling Range 35-60°C
 Color (APHA) max. 10
 Residue after Evaporation max. 0.001%

Ultraviolet Absorbance (1.00-cm path vs water):

at 220 nm max. 1.0
 at 230 nm max. 0.20
 at 250 nm max. 0.05
 at 270 nm max. 0.01
 at 400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9270.1000	1 l	
9270.4000	4 l Glass	

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Petroleum Ether

8115

40-65°C / 'BAKER ANALYZED'

1 l = 0.64 kg

FLASHPOINT -60 °C

CAS NO. 8032-32-4

EINECS 232-453-7

NC CODE 2710 11 210

UN/ID NO. 1268

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H411

P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Boiling Range 40-65°C

Residue after Evaporation max. 0.001%

Water (H₂O) max. 0.02%

Trace Impurities (in ppm):

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg) max. 0.1

Manganese (Mn) max. 0.02

Nickel (Ni) max. 0.02

Tin (Sn) max. 0.1

Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8115.1000	1 l	
8115.5000	5 l EcoTainer	
8115.9025	25 l	
8115.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

Petroleum Ether

8240

40-65°C / 'BAKER'

1 l = 0.64 kg

FLASHPOINT -60 °C

CAS NO. 8032-32-4

EINECS 232-453-7

NC CODE 2710 11 210

UN/ID NO. 1268

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H411

P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Appearance passes test

Appearance at 0°C passes test

Distillation Range 40-65°C

Residue after Evaporation max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
8240.1000	1 l	
8240.5000	5 l EcoTainer	
8240.9025	25 l	
8240.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

Petroleum Ether

8116

60-100°C / 'BAKER ANALYZED'

1 l = 0.67 kg

FLASHPOINT -32 °C

CAS NO. 8032-32-4

EINECS 232-453-7

NC CODE 2710 11 210

UN/ID NO. 1268

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-H411

P: P210-P241-P261-P301+P310-
P303+P361+P353-P405

Danger

Boiling Range 60-100°C

Residue after Evaporation max. 0.001%

Water (H₂O) max. 0.02%

Trace Impurities (in ppm):

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg) max. 0.1

Manganese (Mn) max. 0.02

Nickel (Ni) max. 0.02

Tin (Sn) max. 0.1

Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8116.1000	1 l	
8116.5000	5 l EcoTainer	
8116.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

Petroleum Ether

60-100°C / 'BAKER'

8241

1 l = 0.67 kg
FLASHPOINT -32 °C
CAS NO. 8032-32-4
EINECS 232-453-7
NC CODE 2710 11 210
UN/ID NO. 1268
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H411
P: P210-P241-P261-P301+P310-P303+P361+P353-P405



Danger

Boiling Range 60-100°C
 Residue after Evaporation max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
8241.9025	25 l	
8241.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Petroleum Ether

80-110°C / 'BAKER'

8242

1 l = 0.70 kg
FLASHPOINT -5 °C
CAS NO. 8032-32-4
EINECS 232-453-7
NC CODE 2710 11 210
UN/ID NO. 1268
ADR/RID 3 F1
IMDG 3/II
H: H304-H340-H350
P: P201-P281-P301+P310-P308+P313-P331-P405



Danger

Boiling Range 80-110°C
 Residue after Evaporation max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
8242.1000	1 l	
8242.9025	25 l	

Petroleum Ether

100-140°C / 'BAKER'

8243

1 l = 0.73 kg
FLASHPOINT 0 °C
CAS NO. 8032-32-4
EINECS 232-453-7
NC CODE 2710 11 210
UN/ID NO. 1268
ADR/RID 3 F1
IMDG 3/II
H: H304-H340-H350
P: P201-P281-P301+P310-P308+P313-P331-P405



Danger

Boiling Range 100-140°C
 Residue after Evaporation max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
8243.1000	1 l	
8243.5000	5 l EcoTainer	
8243.9025	25 l	
8243.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.
 For safe handling of 25 l tin cans, see Self-closing tap.



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Z

1,10-Phenanthroline monohydrate

T170-02

'BAKER ANALYZED' / ACS

► C₁₂H₈N₂·H₂O

M = 198.23 g/mol

CAS NO. 66-71-7

EINECS 200-629-2

NC CODE 2933 99 900

EC INDEX NO. 613 092 00 8

UN/ID NO. 2811

ADR/RID 6.1 T2

IMDG 6.1/III

H: H301-H400-H410

P: P264-P270-P273-P301+P310-
P405-P501a

Danger

Meets ACS Specifications. Meets Reagent**Specifications for testing USP/NF monographs**

Suitability as Redox Indicator passes test

Suitability for Determination of Iron passes test

Product Information (not specifications):

Melting Point (typical) 98.0°C

PRODUCT NO.	PACKING	CONT. BOX
T170-02	10 g Glass	

1,10-Phenanthroline Chloride 1aq

1368

'BAKER ANALYZED'

► C₁₂H₈N₂·HCl·H₂O

M = 234.69 g/mol

CAS NO. 3829-86-5

EINECS 223-325-1

NC CODE 2933 99 900

UN/ID NO. 2811

ADR/RID 6.1 T2

IMDG 6.1/III

H: H301

P: P264-P270-P301+P310-P330-
P405-P501a

Danger

Assay	min. 99%
Residue after Ignition	max. 0.05%
Suitability as Redox Indicator	passes test
Suitability for determining Iron	passes test
Water (H ₂ O)	about 9%

PRODUCT NO.	PACKING	CONT. BOX
1368.0005	5 g	
1368.0025	25 g Glass	

Phenol

4056

White fused crystal / 'BAKER ULTRAPURE BIOREAGENT' / Suitable for Extraction of Nucleic Acids

► C₆H₅OH

M = 94.11 g/mol

FLASHPOINT 79 °C

CAS NO. 108-95-2

EINECS 203-632-7

NC CODE 2907 11 000

EC INDEX NO. 604 001 00 2

UN/ID NO. 1671

ADR/RID 6.1 T2

IMDG 6.1/II

H: H301-H311-H314-H331-
H341-H373P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-P361-
P405-P501a

Danger

Assay	min. 99%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Melting Point	39-41°C.
pH (saturated)	4.5-6.0
RNase Activity	none detected
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.4%

PRODUCT NO.	PACKING	CONT. BOX
4056.0100	100 g	
4056.0500	500 g	

Contains no preservative.

Packaged under Nitrogen.

Phenol

crystal / 'BAKER ANALYZED' / ACS

0188

► C₆H₅OH

M = 94.11 g/mol

FLASHPOINT 79 °C

CAS NO. 108-95-2

EINECS 203-632-7

NC CODE 2907 11 000

EC INDEX NO. 604 001 00 2

UN/ID NO. 1671

ADR/RID 6.1 T2

IMDG 6.1/II

H: H301-H311-H314-H331-
H341-H373P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-P361-
P405-P501a

Danger

Exceeds ACS Specifications

Assay (by GC)	min. 99.0%
Clarity of Solution	passes test
Freezing Point	min. 40.5°C, dry basis
Residue after Evaporation	max. 0.03%
Water (H ₂ O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
0188.0500	500 g	
0188.1000	1 kg	6

Phenol

crystal / 'BAKER'

0505

► C₆H₅OH

M = 94.11 g/mol

FLASHPOINT 79 °C

CAS NO. 108-95-2

EINECS 203-632-7

NC CODE 2907 11 000

EC INDEX NO. 604 001 00 2

UN/ID NO. 1671

ADR/RID 6.1 T2

IMDG 6.1/II

H: H301-H311-H314-H331-
H341-H373P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-P361-
P405-P501a

Danger

Assay	99.0-100.5%
Acidity	passes test
Appearance of solution	passes test
Freezing Point	min. 39.5°C
Identification	passes test
Residue on Evaporation	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
0505.1000	1 kg	6
0505.9025	25 kg	

Stored in an airtight container.

Stored protected from light.

Phenolphthalein

'BAKER ANALYZED' / ACS

1159

► C₂₀H₁₄O₅

M = 318.33 g/mol

CAS NO. 77-09-8

EINECS 201-004-7

NC CODE 2932 29 100

H: H341-H350-H361f

P: P201-P202-P281-P308+P313-
P405-P501a

Danger

Meets ACS Specifications

Clarity of alcohol solution	passes test
Visual Transition Interval:	
pH 10.0	red
pH 8.0	colorless

PRODUCT NO.	PACKING	CONT. BOX
1159.0100	100 g	6

Pheno

Phenolphthalein

7143 1% solution in ethanol / 'BAKER ANALYZED'

1 l = 0.80 kg
FLASHPOINT 11 °C
NC CODE 2207 10 000
UN/ID NO. 1170
ADR/RID 3 F1
IMDG 3/II
H: H225-H341-H350
P: P210-P241-P280-P281-P303+P361+P353-P405



Danger

Visual Transition Interval:

pH 10.0 red
 pH 8.0 colorless

PRODUCT NO.	PACKING	CONT. BOX
7143.0250	250 ml	6

Excluding excise.

Solution, ready for use.

▶ **N-Phenylaniline**
 See Diphenylamine

▶ **Phenylmethanol**
 See Benzyl Alcohol

Phloxine B

1468 Certified Stain / 'BAKER ANALYZED' / Certified for Use in Histology

CAS NO. 18472-87-2
EINECS 242-355-6
NC CODE 3204 12 000

Absorbance at Maximum (1.0 mg/200 ml in 50% C₂H₅OH and 0.01% Na₂CO₃, 1-cm path) act. value reported
 Absorbance Maximum, nm act. value reported
 Biological Test passes test
 Total Dye Content act. value reported

PRODUCT NO.	PACKING	CONT. BOX
1468.0025	25 g Glass	

Certified by the Biological Stain Commission.

C.I. 45410.

meta-Phosphoric Acid

0676 Pellets / 'BAKER ANALYZED' / ACS

CAS NO. 37267-86-0
EINECS 253-433-4
NC CODE 2809 20 000
UN/ID NO. 3260
ADR/RID 8 C2
IMDG 8/III
H: H314
P: P260-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Meets ACS Specifications

Assay (HPO ₃)	33.5-36.5%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.005%
Iron (Fe)	max. 0.005%
Nitrate (NO ₃)	max. 0.001%
Stabiliser (NaPO ₃)	57.0-63.0%
Substances Reducing KMnO ₄ (as H ₃ PO ₃)	max. 0.02%
Sulfate (SO ₄)	max. 0.005%

Trace Impurities (in ppm):

Arsenic (As)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0676.0500	500 g	
0676.2500	2.5 kg	

Vitreous Sodium Acid Metaphosphate.

This product contains as a stabilizer a somewhat greater proportion of sodiummetaphosphate than that corresponding to the formula NaH(PO₃)₂.

A NEW GENERATION OF DISCOVERY.

See the whole story online at www.avantormaterials.com

AVANTOR[™]
 PERFORMANCE MATERIALS

Phosphoric Acid

85% / ULTREX II Ultrapure Reagent

6908

▶ H₃PO₄

M = 98.00 g/mol

1 l = 1.71 kg

CAS NO. 7664-38-2

EINECS 231-633-2

NC CODE 2809 20 000

EC INDEX NO. 15 011 00 6

UN/ID NO. 1805

ADR/RID 8 C2

IMDG 8/III

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Actual Lot Analysis Lot. No. J12585

Assay	86.1% (w/w)
Appearance	passes test
Density (g/ml) at 25°C	1.69
Trace Impurities (in ppb):	
Aluminium (Al)	<10
Antimony (Sb)	<500
Barium (Ba)	<0.1
Beryllium (Be)	<5
Bismuth (Bi)	<1
Cadmium (Cd)	<1
Calcium (Ca)	<50
Cerium (Ce)	<0.5
Cesium (Cs)	<0.5
Chromium (Cr)	<20
Cobalt (Co)	<1
Copper (Cu)	<5
Dysprosium (Dy)	<0.5
Erbium (Er)	<0.5
Europium (Eu)	<0.5
Gadolinium (Gd)	<1
Gallium (Ga)	<0.5
Germanium (Ge)	<1
Gold (Au)	<1
Holmium (Ho)	<0.5
Indium (In)	<0.5
Iridium (Ir)	<0.5
Iron (Fe)	<100
Lanthanum (La)	<0.5
Lead (Pb)	<1
Lithium (Li)	<1
Lutetium (Lu)	<0.5
Magnesium (Mg)	<5
Manganese (Mn)	<5
Mercury (Hg)	<5
Molybdenum (Mo)	<5
Neodymium (Nd)	<0.5
Nickel (Ni)	<20
Niobium (Nb)	<5

Palladium (Pd)	<1
Platinum (Pt)	<1
Potassium (K)	<10
Praseodymium (Pr)	<0.5
Rhodium (Rh)	<0.5
Rubidium (Rb)	<0.5
Ruthenium (Ru)	<0.5
Samarium (Sm)	<0.5
Scandium (Sc)	<0.005
Silver (Ag)	<1
Sodium (Na)	<50
Strontium (Sr)	<1
Tantalum (Ta)	<5
Terbium (Tb)	<1
Thallium (Tl)	<0.5
Thorium (Th)	<0.5
Thulium (Tm)	<0.5
Tin (Sn)	<2
Titanium (Ti)	<10
Tungsten (W)	<5
Uranium (U)	<0.5
Vanadium (V)	<1
Ytterbium (Yb)	<0.5
Yttrium (Y)	<0.5
Zinc (Zn)	<10
Zirconium (Zr)	<5

Trace Impurities (in ppm):

Arsenic (As)	<0.005
Boron (B)	<0.010
Nitrate (NO ₃)	<0.5
Silicon (Si)	<0.5
Sulfate (SO ₄)	<5

PRODUCT NO.	PACKING	CONT. BOX
6908.0050	50 g	

For Laboratory, Research or Manufacturing Use.

Phosphoric Acid

85% / 'BAKER ANALYZED' / ACS

6024

▶ H₃PO₄

M = 98.00 g/mol

1 l = 1.71 kg

CAS NO. 7664-38-2

EINECS 231-633-2

NC CODE 2809 20 000

EC INDEX NO. 15 011 00 6

UN/ID NO. 1805

ADR/RID 8 C2

IMDG 8/III

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Exceeds ACS Specifications

Assay	min. 85.0%
Alkali phosphates	passes test
Chloride (Cl)	max. 1 ppm
Color (APHA)	max. 10
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.001%
Nitrate (NO ₃)	max. 5 ppm
Phosphorous or Hypophosphorous Acid	passes test
Reducing Substances	passes test
Sulfate (SO ₄)	max. 0.003%
Volatile Acids (as CH ₃ COOH)	max. 0.001%
Trace Impurities (in ppm):	
Aluminium (Al)	max. 10
Antimony (Sb)	max. 4
Arsenic (As)	max. 0.5
Cadmium (Cd)	max. 5

Calcium (Ca)	max. 20
Copper (Cu)	max. 5
Iron (Fe)	max. 10
Lead (Pb)	max. 5
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 0.5
Nickel (Ni)	max. 5
Potassium (K)	max. 5
Sodium (Na)	max. 10
Zinc (Zn)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6024.1000	1 l	6
6024.2500	2.5 l	4
6024.9025	25 l	
6024.9200	200 l	

Phosphotungstic Acid

See Tungstophosphoric Acidn-Hydrate

Phthalic Anhydride

0194

'BAKER ANALYZED' / ACS

▶ $C_6H_4-1,2-COOCO$

M = 148.12 g/mol

CAS NO. 85-44-9

EINECS 201-607-5

NC CODE 2917 35 000

EC INDEX NO. 607 009 00 4

UN/ID NO. 2214

ADR/RID 8 C4

IMDG 8/III

H: H302-H315-H317-H318-
H334-H335P: P261-P285-P305+P351+P338-
P310-P405-P501a

Danger

Exceeds ACS Specifications. Meets Reagents**Specifications for testing USP/NF monographs**

Assay	99.0-100.2%
Appearance	passes test
Chloride (Cl)	max. 0.001%
Melting Range	max. 3°C
Recorded Melting Point	131°C
Residue after Ignition	max. 0.005%
Sulfate (SO ₄)	max. 0.003%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

0194.1000 1 kg

7526

Phthalic Anhydride in Pyridine

160 g/l / 'BAKER ANALYZED'

FLASHPOINT 17 °C

NC CODE 3822 00 000

UN/ID NO. 2924

ADR/RID 3 FC

IMDG 3/II

H: H225-H302-H312-H315-H317-
H318-H332-H334P: P210-P241-P285-
P303+P361+P353-
P305+P351+P338-P310

Danger

Color (APHA) max. 100

PRODUCT NO.	PACKING	CONT. BOX

7526.2500 2.5 l

Volumetric Solution, ready for use.

4265

Piperazine-N,N'-bis(2-ethanesulfonic acid)

'BAKER ULTRAPURE BIOREAGENT'

▶ $C_8H_{18}N_2O_6S_2$

M = 302.37 g/mol

CAS NO. 5625-37-6

NC CODE 2933 59 950

Assay	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Protease Activity	none detected
Residue after Ignition	max. 0.3%
RNase Activity	none detected

Product Information (not specifications):

pKa at 20°C 6.80

PRODUCT NO.	PACKING	CONT. BOX

4265.0025 25 g Glass

4265.0100 100 g

4265.1000 1 kg

4266

Piperazine-N,N'-bis(2-ethanesulfonic acid) Sodium Salt

'BAKER ULTRAPURE BIOREAGENT'

▶ $C_8H_{17}N_2Na_{1.5}O_6S_2$

M = 335.85 g/mol

CAS NO. 100037-69-2

NC CODE 2933 59 950

Assay	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.05%
Protease Activity	none detected
RNase Activity	none detected

Product Information (not specifications):

pKa at 20°C 6.80

PRODUCT NO.	PACKING	CONT. BOX

4266.0100 100 g

4266.1000 1 kg

▶ PIPES

See Piperazine-N,N'-bis(2-ethanesulfonic acid)

▶ PIPES Sodium Salt

See Piperazine-N,N'-bis(2-ethanesulfonic acid) Sodium Salt

Platinum 1000 µg/ml

(Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5773

▶ Pt	Platinum (Pt)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 195.08 g/mol			5773.0100	100 ml	
NC CODE 3822 00 000					
H: EUH210					
Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.					

Platinum 1000 µg/ml

(Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6951

▶ Pt	Platinum (Pt)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 195.08 g/mol			6951.0100	100 ml	
NC CODE 3822 00 000					
H: EUH210					
Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.					

Platinum 10000 µg/ml

(Matrix: 10% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5740

▶ Pt	Platinum (Pt)	9980-10020 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 195.08 g/mol			5740.0100	100 ml	
NC CODE 3822 00 000					
H: H315-H319-H335+H336					
P: P261-P280-P304+P340-P305+P351+P338-P362-P405					
					
Warning					
Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.					

Platinum Chloride

See Chloroplatinic Acid Hexahydrate

Polyethylene Glycol

4000 / 'BAKER'

1615

▶ H(OCH ₂ CH ₂) _n OH	Melting Point	55 - 60°C	PRODUCT NO.	PACKING	CONT. BOX
EINECS 203-473-3			1615.1000	1 kg	
NC CODE 3907 20 110					

Polyethylene Glycol

6000 / 'BAKER'

1616

▶ H(OCH ₂ CH ₂) _n OH	Melting Point	60 - 66°C	PRODUCT NO.	PACKING	CONT. BOX
EINECS 203-473-3			1616.1000	1 kg	6
NC CODE 3907 20 110					

Potassium 1000 µg/ml

5774 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ K

M = 39.10 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

Potassium (K)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5774.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Potassium 1000 µg/ml

6950 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ K

M = 39.10 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-

P332+P313-P337+P313-P362



Warning

Potassium (K)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6950.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Potassium 1000 µg/ml

6820 'BAKER ANALYZED' / Atomic Absorption Standard

▶ K

M = 39.10 g/mol

NC CODE 3822 00 000

Potassium (K)

998-1002 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6820.0100

100 ml

Potassium Nitrate in Water.

Potassium 10000 µg/ml

5741 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ K

M = 39.10 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

Potassium (K)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5741.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Potassium Acetate

0195 'BAKER ANALYZED' / ACS

▶ CH₃COOK

M = 98.15 g/mol

CAS NO. 127-08-2

EINECS 204-822-2

NC CODE 2915 29 000

Meets ACS Specifications

Assay (by non-aqueous titrn.)	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.003%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.002%
pH of 5% Solution at 25°C	6.5-9.0
Phosphate (PO ₄)	max. 0.001%
Sodium (Na)	max. 0.03%
Sulfate (SO ₄)	max. 0.002%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT

PACKING

CONT.

NO.

BOX

0195.1000

1 kg

6

Potassium Bicarbonate

See Potassium Hydrogen Carbonate

Potassium Bichromate

See Potassium Dichromate

Potassium Biphosphate

See Potassium Dihydrogen Phosphate

Potassium Biphthalate

See Potassium Hydrogen Phthalate

Potassium Bisulfate

See Potassium Hydrogen Sulfate

Potassium Bisulfate, fused

See Potassium Pyrosulfate

Potassium Bromate

$\frac{1}{60}$ mol/l / 0.1 N / 'BAKER ANALYZED'

7133

M = 167.00 g/mol	Titer (N)	0.0995- 0.1005
EINECS 231-829-8		
NC CODE 2829 90 400		
H: H350		
P: P201-P202-P281-P308+P313-P405-P501a		



Danger

PRODUCT NO.	PACKING	CONT. BOX
7133.1000	1 l	

Volumetric Solution, ready for use.

Potassium Bromate

$\frac{1}{60}$ mol/l / 0.1 N / DILUT-IT

4667

► KBrO₃

M = 167.00 g/mol	
CAS NO. 7758-01-2	
EINECS 231-829-8	
NC CODE 2829 90 400	
UN/ID NO. 1484	
ADR/RID 5.1 O2	
IMDG 5.1/II	
H: H272-H350	
P: P210-P220-P221-P280-P281-P405	



Danger

PRODUCT NO.	PACKING	CONT. BOX
4667	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

Potassium Bromide

'BAKER INSTRA-ANALYZED' / For IR Analysis

0373

► KBr

M = 119.01 g/mol	Assay (argentometric titrn.)	min. 99.0%
CAS NO. 7758-02-3	Insoluble Matter	max. 0.005%
EINECS 231-830-3	Loss on Drying at 105°C	max. 0.05%
NC CODE 2827 51 000	Nitrogen Compounds (as N)	max. 0.0005%
	pH of 5% Solution at 25°C	5.0-7.5
	Suitability for Infrared Analysis	passes test
	Sulfate (SO ₄)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
0373.0100	100 g	

Potassium Bromide

0202 'BAKER ANALYZED' / ACS

► KBr

M = 119.01 g/mol
CAS NO. 7758-02-3
EINECS 231-830-3
NC CODE 2827 51 000

Meets ACS Specifications. Meets Reagent**Specifications for testing USP/NF monographs**

Assay (argentometric titrn.)	min. 99.0%
Barium (Ba)	max. 0.002%
Bromate (BrO ₃)	max. 0.001%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.2%
Insoluble Matter	max. 0.005%
Iodate (IO ₃)	max. 0.001%
Iodide (I)	max. 0.001%
Magnesium (Mg)	max. 0.001%

pH of 5% Solution at 25°C	5.0-8.8
Sodium (Na)	max. 0.02%
Sulfate (SO ₄)	max. 0.005%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0202.0250	250 g	6
0202.1000	1 kg	

Potassium Carbonate Anhydrous

0204 'BAKER ANALYZED' / ACS

► K₂CO₃

M = 138.21 g/mol
CAS NO. 584-08-7
EINECS 209-529-3
NC CODE 2836 40 000
H: H302-H315-H319-H335
P: P261-P280-P305+P351+P338-P362-P405-P501a



Warning

Exceeds ACS Specifications. Meets Reagents**Specifications for testing USP/NF monographs**

Assay (by acid-base titration)	min. 99.0%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.003%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.002%
Phosphate (PO ₄)	max. 0.001%
Silica (SiO ₂)	max. 0.005%
Sodium (Na)	max. 0.02%
Sulfur Compounds (as SO ₄)	max. 0.004%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0204.1000	1 kg	6

Potassium Carbonate Anhydrous

0205 'BAKER'

► K₂CO₃

M = 138.21 g/mol
CAS NO. 584-08-7
EINECS 209-529-3
NC CODE 2836 40 000
H: H302-H315-H319-H335
P: P261-P280-P305+P351+P338-P362-P405-P501a



Warning

Assay	min. 99%

PRODUCT NO.	PACKING	CONT. BOX
0205.1000	1 kg	

Potassium Chlorate

0207 'BAKER'

► KClO₃

M = 122.55 g/mol
CAS NO. 3811-04-9
EINECS 223-289-7
NC CODE 2829 19 000
EC INDEX NO. 17 004 00 3
UN/ID NO. 1485
ADR/RID 5.1 O2
IMDG 5.1/II
H: H271-H302-H332-H411
P: P210-P221-P283-P306+P360-P371+P380+P375-P501a



Danger

Assay	min. 99.0%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0207.1000PE	1 kg HDPE	

Potassium Chloride

crystal / 'BAKER ULTRAPURE BIOREAGENT'

4001

► KCl

M = 74.56 g/mol
CAS NO. 7447-40-7
EINECS 231-211-8
NC CODE 3104 20 900

Assay (argentometric titrn.)	99.0-100.5%
Barium (Ba)	max. 0.001%
Bromide (Br)	max. 0.1%
Calcium, Magnesium and R ₂ O ₃ Precipitate	max. 0.005%
DNase Activity	none detected
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.002%
Loss on Drying at 105°C	max. 1.0%
pH of 5% Solution at 25°C	5.4-8.6
Protease Activity	none detected
RNase Activity	none detected
Sodium (Na)	max. 0.005%

Trace Impurities (in ppm):

Arsenic (As)	max. 1
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Nickel (Ni)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
4001.0500	500 g	
4001.2500	2.5 kg	

Potassium Chloride

crystal / 'BAKER ANALYZED' / ACS

0208

► KCl

M = 74.56 g/mol
CAS NO. 7447-40-7
EINECS 231-211-8
NC CODE 3104 20 900

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay (argentometric titrn.)	99.0-100.5%
Barium (Ba)	passes test
Bromide (Br)	max. 0.01%
Calcium (Ca)	max. 0.002%
Chlorate and Nitrate (as NO ₃)	max. 0.003%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.002%
Loss on Drying at 105°C	max. 1.0%
Magnesium (Mg)	max. 0.001%
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	5.4-8.6
Sodium (Na) (by FES)	max. 0.005%
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Arsenic (As)	max. 1
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Nickel (Ni)	max. 1
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0208.0250	250 g	
0208.1000	1 kg	6
0208.5000	5 kg	

Potassium Chloride

'BAKER'

0509

► KCl

M = 74.56 g/mol
CAS NO. 7447-40-7
EINECS 231-211-8
NC CODE 3104 20 900

Assay	min. 99%
Acidity and Alkalinity	passes test
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.005%
Sodium (Na)	max. 0.1%
Sulfate (SO ₄)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0509.0500	500 g	6
0509.1000	1 kg	6
0509.5000	5 kg	

Potassium Chloride

'BAKER'

0209

► KCl

M = 74.56 g/mol
CAS NO. 7447-40-7
EINECS 231-211-8
NC CODE 3104 20 900

Assay	99.0-100.5%
Acid or alkaline reacting substances	passes test
Appearance of solution	passes test
Barium (Ba)	passes test
Bromide (Br)	max. 0.1%
Calcium and Magnesium	passes test
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iodide (I)	passes test
Loss on Drying at 105°C	max. 1.0%
Magnesium, earth-alkaline metals (as Ca)	max. 200 ppm
Organic Volatile Impurities	passes test
Sulfate (SO ₄)	max. 300 ppm

Trace Impurities (in ppm):

Iron (Fe)	max. 20 ppm
Sodium (Na)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0209.1000	1 kg	6
0209.5000	5 kg	

Potassium Chromate

0210

'BAKER ANALYZED'

▶ K_2CrO_4

M = 194.20 g/mol

CAS NO. 7789-00-6

EINECS 232-140-5

NC CODE 2841 50 000

EC INDEX NO. 24 006 00 8

UN/ID NO. 3077

ADR/RID 9 M7

H: H315-H317-H319-H335-H340-
H350i-H400-H410P: P261-P280-P281-
P305+P351+P338-P405-P501a

Danger

Assay	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	8.6-9.8
Sodium (Na) (by AAS)	max. 0.02%
Sulfate (SO_4)	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
0210.0500	500 g	

Potassium Cyanide

0213

'BAKER ANALYZED' / ACS

▶ KCN

M = 65.12 g/mol

CAS NO. 151-50-8

EINECS 205-792-3

NC CODE 2837 19 000

EC INDEX NO. 6 007 00 5

UN/ID NO. 1680

ADR/RID 6.1 T5

IMDG 6.1/I

H: EUH032-H300-H310-H330-
H400-H410P: P260-P301+P310-P310-P361-
P405-P501a

Danger

Meets ACS Specifications

Assay (argentometric titrn.)	min. 96.0%
Appearance	passes test
Chloride (Cl)	max. 0.5%
Lead (Pb)	max. 0.0002%
Phosphate (PO_4)	max. 0.005%
Sodium (Na)	max. 0.5%
Solubility (5 in 50)	passes test
Sulfate (SO_4)	max. 0.04%
Sulfide (S)	max. 0.003%
Thiocyanate (SCN)	passes test
Total Iron (Fe)	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
0213.0100	100 g	

Potassium Dichromate

0214

crystal / 'BAKER ANALYZED' / Primary Standard / ACS

▶ $K_2Cr_2O_7$

M = 294.19 g/mol

CAS NO. 7778-50-9

EINECS 231-906-6

NC CODE 2841 50 000

EC INDEX NO. 24 002 00 6

UN/ID NO. 3288

ADR/RID 6.1 T5

IMDG 6.1/III

H: H272-H301-H312-H314-H317-
H330-H334-H340-H350-H360FD-
H372-H400-H410P: P221-P301+P310-
P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Exceeds ACS Specifications

Assay (dried basis)	99.95-100.05%
Calcium (Ca)	max. 0.001%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 0.02%
pH of 5% Solution at 25°C	3.5-4.0
Sodium (Na)	max. 0.01%
Sulfate (SO_4)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0214.0500	500 g	

Potassium Dichromate

'BAKER ANALYZED' / ACS

0215

▶ $K_2Cr_2O_7$

M = 294.19 g/mol

CAS NO. 7778-50-9

EINECS 231-906-6

NC CODE 2841 50 000

EC INDEX NO. 24 002 00 6

UN/ID NO. 3288

ADR/RID 6.1 T5

IMDG 6.1/III

H: H272-H301-H312-H314-H317-
H330-H334-H340-H350-H360FD-
H372-H400-H410

P: P221-P301+P310-
P303+P361+P353-
P305+P351+P338-P310-P405-
P501a


Danger

Exceeds ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 0.05%
Sodium (Na)	max. 0.02%
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0215.0500	500 g	
0215.1000	1 kg	

Potassium Dichromate

1/24 mol/l / 'BAKER ANALYZED'

7250

NC CODE 2841 50 000

H: H334-H340-H350-H360-H373-
H315-H319-H317-H412

P: P260-P285-P261-P280-
P305+P351+P338-P405


Danger

Titer (mol/l) 0.0415-0.0420

PRODUCT NO.	PACKING	CONT. BOX
7250.1000	1 l	6

Potassium Dichromate

0.04 mol/l / 'BAKER ANALYZED' / For the COD determination according AFNOR NFT 90-101

7631

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/II

H: H334-H340-H350-H360-H373-
H314-H317-H412

P: P260-P285-P303+P361+P353-
P305+P351+P338-P310-P405


Danger

Molarity (M) 0.0396 - 0.0404

PRODUCT NO.	PACKING	CONT. BOX
7631.1000	1 l	

Potassium Dichromate / Sulfuric Acid Solution 0.04 mol/l.

Potassium Dichromate

0.02 mol/l / 'BAKER ANALYZED' / For COD determination according DIN 38409 vol.41

7134

M = 294.19 g/mol

CAS NO. 7778-50-9

EINECS 231-906-6

NC CODE 2841 50 000

H: H310-H330-H340-H350-H360-
H302-H411

P: P260-P284-P280-P310-P361-P405



Danger

Titer (mol/l) 0.0198 - 0.0202

PRODUCT NO.	PACKING	CONT. BOX
7134.1000	1 l	

Volumetric Solution, ready for use.

Potassium Dichromate

7249

0.005 mol/l / 'BAKER ANALYZED' / For COD determination according DIN 38409 vol.41

NC CODE 2841 50 000

Titer (mol/l)

0.0048-0.0052

H: H340-H350-EUH208

P: P281-P201-P202-P308+P313-
P405-P501a

Danger

PRODUCT
NO.

PACKING

CONT.
BOX

7249.1000

1 l

6

Potassium Dichromate

4671

 $\frac{1}{60}$ mol/l / $\frac{1}{10}$ equiv. = 4.903g; 0.1N / DILUT-IT► $K_2Cr_2O_7$

M = 294.19 g/mol

CAS NO. 7778-50-9

EINECS 231-906-6

NC CODE 2841 50 000

EC INDEX NO. 24 002 00 6

H: H334-H340-H350-H360-
H373-H318-H302-H332-H315-
H317-H411P: P260-P285-P261-
P305+P351+P338-P310-P405

Danger

PRODUCT
NO.

PACKING

CONT.
BOX

4671

1 Amp.

Volumetric Concentrate, for dilution to 1 l.

Potassium Dihydrogen Phosphate

4921

ULTREX Ultrapure Reagent

► KH_2PO_4

M = 136.09 g/mol

CAS NO. 7778-77-0

EINECS 231-913-4

NC CODE 2835 24 000

Actual Lot Analysis Lot. No. C51H11

Assay (dried basis)	99.2%
Loss on Drying at 150°C (for 2 Hours)	< 0.002%
Particulate Matter	< 0.001%
pH of 5% Solution at 25°C	4.3

Metallic Impurities in parts per million (µg/g):

Aluminium (Al)	0.1
Barium (Ba)	0.1
Bismuth (Bi)	0.6
Cadmium (Cd)	< 0.1
Calcium (Ca)	< 0.1
Chromium (Cr)	0.8
Cobalt (Co)	0.2
Copper (Cu)	0.3
Iron (Fe)	1.5
Lead (Pb)	0.4
Magnesium (Mg)	0.6
Manganese (Mn)	0.2
Mercury (Hg)	< 0.1
Molybdenum (Mo)	0.2
Nickel (Ni)	0.3
Niobium (Nb)	0.2
Silicon (Si)	2.7
Silver (Ag)	0.7
Sodium (Na)	2.2
Strontium (Sr)	0.3
Titanium (Ti)	0.4
Vanadium (V)	0.1
Zinc (Zn)	0.7
Zirconium (Zr)	0.02

Non-Metallic Impurities in parts per million (µg/g):

Arsenic (As)	< 3
Fluoride (F)	< 2
Halide (as Cl)	< 2
Nitrogen Compounds (as N)	< 15
Sulfate (SO ₄)	< 25
Tin (Sn)	0.09

Ultraviolet Absorbance, (1M Aqueous Solution; 1.00-cm path vs water):

at 215 nm	0.07
at 220 nm	0.06
at 254 nm	0.04
at 280 nm	0.04
at 400 nm	< 0.002

PRODUCT
NO.

PACKING

CONT.
BOX

4921.0100

100 g Glass

4921.1000

1 kg Glass

For Laboratory, Research or Manufacturing Use.

Potassium Dihydrogen Phosphate

crystal / 'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology applications

4008

▶ KH_2PO_4

M = 136.09 g/mol
CAS NO. 7778-77-0
EINECS 231-913-4
NC CODE 2835 24 000

Assay	min. 99.0%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter, Calcium and NH_4OH	
Precipitate	max. 0.01%
Iron (Fe)	max. 0.002%
Loss on Drying over H_2SO_4	max. 0.2%
pH of 5% Solution at 25°C	4.1-4.5
Protease Activity	none detected
RNase Activity	none detected
Trace Impurities (in ppm):	
Arsenic (As)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
4008.0500	500 g	
4008.2500	2.5 kg	

Potassium Dihydrogen Phosphate

'BAKER ANALYZED' / ACS

0240

▶ KH_2PO_4

M = 136.09 g/mol
CAS NO. 7778-77-0
EINECS 231-913-4
NC CODE 2835 24 000

Exceeds ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Fluoride (F)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.001%
Loss on Drying at 105°C	max. 0.2%
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	4.1-4.5
Sodium (Na)	max. 0.005%
Sulfate (SO_4)	max. 0.003%
Trace Impurities (in ppm):	
Arsenic (As)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0240.0500	500 g	6
0240.1000	1 kg	6

Potassium Dihydrogen Phosphate

'BAKER'

1737

▶ KH_2PO_4

M = 136.09 g/mol
CAS NO. 7778-77-0
EINECS 231-913-4
NC CODE 2835 24 000

Assay	min. 99%
Loss on Drying at 105°C	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1737.1000	1 kg	6

Potassium Disulfite

'BAKER ANALYZED'

0199

▶ $\text{K}_2\text{S}_2\text{O}_5$

M = 222.33 g/mol
CAS NO. 16731-55-8
EINECS 240-795-3
NC CODE 2833 29 900
H: EUH031-H318-H335
P: P261-P280-P305+P351+P338-P310-P405-P501a



Danger

Assay	min. 95.0%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Trace Impurities (in ppm):	
Arsenic (As)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0199.1000	1 kg	6

Potassium Ferricyanide

See Potassium Hexacyanoferrate(III)

Potassium Ferrocyanide

See Potassium Hexacyanoferrate(II)

Potassium Fluoride Anhydrous

0225 'BAKER ANALYZED' / ACS

▶ KF

M = 58.10 g/mol

CAS NO. 7789-23-3

EINECS 232-151-5

NC CODE 2826 19 000

EC INDEX NO. 9 005 00 2

UN/ID NO. 1812

ADR/RID 6.1 T5

IMDG 6.1/III

H: H301-H311-H331

P: P261-P280-P301+P310-P361-P405-P501a



Danger

Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Potassium Fluorosilicate (K ₂ SiF ₆)	max. 0.1%
Sodium (Na)	max. 0.2%
Sulfate (SO ₄)	max. 0.005%
Titration Acid (meq/g)	max. 0.03
Titration Base (meq/g)	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0225.0250	250 g	
0225.1000	1 kg	6

Potassium Hexachloroplatinate(IV)

1442

'BAKER'

▶ K₂PtCl₆

M = 486.01 g/mol

CAS NO. 16921-30-5

EINECS 240-979-3

NC CODE 2843 90 900

UN/ID NO. 1759

ADR/RID 8 C10

IMDG 8/III

H: H301-H317-H318-H334

P: P285-P301+P310-P305+P351+P338-P310-P405-P501a



Danger

Assay (Pt)	min. 40%
Suitable for the preparation of APHA standards	passes test

PRODUCT NO.	PACKING	CONT. BOX
1442.0001	1 g	

Potassium Hexacyanoferrate(II)

3114-01

crystal / 'BAKER ANALYZED' / ACS

▶ K₄Fe(CN)₆·3H₂O

M = 422.41 g/mol

CAS NO. 14459-95-1

EINECS 237-722-2

NC CODE 2837 20 000

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay	98.5-102.0%
Chloride (Cl)	max. 0.01%
Insoluble Matter	max. 0.005%
Sulfate (SO ₄)	passes test

PRODUCT NO.	PACKING	CONT. BOX
3114-01	500 ml HDPE	

Potassium Hexacyanoferrate(III)

0219

'BAKER ANALYZED' / ACS

▶ K₃Fe(CN)₆

M = 329.26 g/mol

CAS NO. 13746-66-2

EINECS 237-323-3

NC CODE 2837 20 000

Exceeds ACS Specifications

Assay (by Iodometry)	min. 99.0%
Appearance	passes test
Chloride (Cl)	max. 0.01%
Ferro Compounds as [Fe(CN) ₆] ⁴⁻	max. 0.05%
Insoluble Matter	max. 0.005%
Sulfate (SO ₄)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0219.0250	250 g	
0219.1000	1 kg	

Potassium Hydrogen Carbonate

granular / 'BAKER ANALYZED' / ACS

2940

▶ KHCO_3

M = 100.12 g/mol

CAS NO. 298-14-6

EINECS 206-059-0

NC CODE 2836 40 000

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay (dried basis)	99.7-100.5%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.001%
Sodium (Na)	max. 0.03%
Sulfur Compounds (as SO_4)	max. 0.003%

Trace Impurities (in ppm):

Ammonium (NH_4)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate (PO_4)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
2940.0500	500 g	6

Potassium Hydrogen Phosphate Anhydrous

powder / 'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology applications

4012

▶ K_2HPO_4

M = 174.18 g/mol

CAS NO. 7758-11-4

EINECS 231-834-5

NC CODE 2835 24 000

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
DNase Activity	none detected
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 1.0%
pH of 5% Solution at 25°C	8.5-9.6
Protease Activity	none detected
RNase Activity	none detected

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4012.0500	500 g	
4012.2500	2.5 kg	

Potassium Hydrogen Phosphate Anhydrous

'BAKER'

0242

▶ K_2HPO_4

M = 174.18 g/mol

CAS NO. 7758-11-4

EINECS 231-834-5

NC CODE 2835 24 000

Assay	98.0-100.5%
Arsenic (As)	max. 3 ppm
Carbonate (CO_3)	passes test
Chloride (Cl)	max. 0.03%
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Insoluble Substances	max. 0.2%
Iron (Fe)	max. 0.003%
Limit of fluoride	max. 0.001%
Limit of monobasic or tribasic salt	passes test
Loss on Drying at 105°C	max. 1.0%
pH of 5% Solution at 25°C	8.5 - 9.6
Sodium (Na)	passes test
Sulfate (SO_4)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0242.1000	1 kg	

Potassium Hydrogen Phthalate

ULTREX Ultrapure Reagent

4889

▶ $\text{1-KOCOC}_6\text{H}_4\text{-2-COOH}$

M = 204.23 g/mol

CAS NO. 877-24-7

EINECS 212-889-4

NC CODE 2917 39 800

Actual Analysis Lot. No. H43472

Assay (dried basis)	100.00%
Identification (by IR)	passes test
Particulate Matter	0.002
pH of 0.05 M Solution at 25°C	4.00

Metallic Impurities in parts per million (µg/g):

Aluminium (Al)	< 0.2
Barium (Ba)	< 0.2
Bismuth (Bi)	< 2.2
Cadmium (Cd)	< 0.1
Calcium (Ca)	< 0.1
Chromium (Cr)	< 0.2
Cobalt (Co)	< 0.2
Copper (Cu)	< 0.1
Iron (Fe)	< 0.2
Lead (Pb)	< 0.2
Magnesium (Mg)	< 0.1
Manganese (Mn)	< 0.1
Mercury (Hg)	< 0.3
Molybdenum (Mo)	< 0.1
Nickel (Ni)	< 0.2

Niobium (Nb)	< 0.1
Silver (Ag)	< 0.3
Sodium (Na)	0.0006
Strontium (Sr)	< 0.2
Tin (Sn)	< 0.2
Titanium (Ti)	< 0.2
Vanadium (V)	< 0.1
Zinc (Zn)	< 0.2
Zirconium (Zr)	< 0.2

Non-Metallic Impurities in parts per million (µg/g):

Chlorine Compounds (as Cl)	0.003
Silicon (Si)	< 0.1
Sulfur Compounds (as S)	< 0.002

PRODUCT NO.	PACKING	CONT. BOX
4889.0025	25 g Glass	

For Primary Standard and Research Applications.

For Laboratory, Research or Manufacturing Use.

Potassium Hydrogen Phthalate

0197 'BAKER ANALYZED' / Primary Standard / ACS

▶ 1-KOCOC₆H₄-2-COOH

M = 204.23 g/mol

CAS NO. 877-24-7

EINECS 212-889-4

NC CODE 2917 39 800

Meets ACS Specifications

Assay (dried basis)	99.95 - 100.05%
Chlorine Compounds (as Cl)	max. 0.003%
Insoluble Matter	max. 0.005%
pH of 0.05 M Solution at 25°C	4.00 - 4.02
Sodium (Na)	max. 0.005%
Sulfur Compounds (as S)	max. 0.002%
Trace Impurities (in ppm):	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0197.0250	250 g	6

This reagent is satisfactory for use as a pH standard. For use as an acidimetric standard this material should be lightly crushed and dried for 2 hours at 120°C to remove any absorbed moisture.

Potassium Hydrogen Phthalate

7525 'BAKER ANALYZED'

▶ 1-KOCOC₆H₄-2-COOH

M = 204.23 g/mol

CAS NO. 877-24-7

EINECS 212-889-4

NC CODE 2917 39 800

Assay (titrimetric) 1.04-1.08 g/l

PRODUCT NO.	PACKING	CONT. BOX
7525.9025	25 l	

Potassium Hydrogen Sulfate

0198 'BAKER ANALYZED'

▶ KHSO₄

M = 136.17 g/mol

CAS NO. 7646-93-7

EINECS 231-594-1

NC CODE 2833 29 900

EC INDEX NO. 16 056 00 4

UN/ID NO. 2509

ADR/RID 8 C2

IMDG 8/II

H: H314-H335

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a



Danger

Acidity (as H ₂ SO ₄)	35.0-37.0%
Calcium and Magnesium Precipitate	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter and NH ₄ OH Precipitate	max. 0.01%
Iron (Fe)	max. 0.001%
Phosphate (PO ₄)	max. 0.001%
Trace Impurities (in ppm):	
Arsenic (As)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0198.0500	500 g	

Potassium Hydroxide

0385 Pellets / 'BAKER ANALYZED'

▶ KOH

M = 56.11 g/mol

CAS NO. 1310-58-3

EINECS 215-181-3

NC CODE 2815 20 100

EC INDEX NO. 19 002 00 8

UN/ID NO. 1813

ADR/RID 8 C6

IMDG 8/II

H: H302-H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a



Danger

Assay	min. 85%
Aluminium (Al)	max. 0.001%
Calcium (Ca)	max. 0.001%
Potassium Carbonate (K ₂ CO ₃)	max. 1.0%
Silica (SiO ₂)	max. 0.005%
Sodium (Na)	max. 0.5%
Trace Impurities (in ppm):	
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate (PO ₄)	max. 5
Sulfate (SO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0385.0500	500 g	6
0385.1000	1 kg	6
0385.5000	5 kg	4
0385.9050	50 kg	

Potassium Hydroxide

Pellets / 'BAKER ANALYZED' / ACS

0222

► KOH

M = 56.11 g/mol

CAS NO. 1310-58-3

EINECS 215-181-3

NC CODE 2815 20 100

EC INDEX NO. 19 002 00 8

UN/ID NO. 1813

ADR/RID 8 C6

IMDG 8/II

H: H302-H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a



Danger

Exceeds ACS Specifications

Assay	min. 86.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Ag)	max. 0.001%
Insoluble Matter	max. 30 ppm
Magnesium (Mg)	max. 0.002%
Potassium Carbonate (K ₂ CO ₃)	max. 0.5%
Sodium (Na)	max. 0.05%

Trace Impurities (in ppm):

Iron (Fe)	max. 3
Mercury (Hg)	max. 0.1
Nickel (Ni)	max. 2
Nitrogen Compounds (as N)	max. 3
Phosphate (PO ₄)	max. 2
Sulfate (SO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0222.1000	1 kg	6
0222.5000	5 kg	
0222.9050	50 kg	

Potassium Hydroxide

Pellets / 'BAKER'

0224

► KOH

M = 56.11 g/mol

CAS NO. 1310-58-3

EINECS 215-181-3

NC CODE 2815 20 100

EC INDEX NO. 19 002 00 8

UN/ID NO. 1813

ADR/RID 8 C6

IMDG 8/II

H: H302-H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a



Danger

Assay	min. 85.0%
Heavy Metals (as Pb)	max. 0.003%
Identification	passes test
Insoluble Substances	passes test
Potassium Carbonate (K ₂ CO ₃)	max. 3.5%

PRODUCT NO.	PACKING	CONT. BOX
0224.1000	1 kg	
0224.5000	5 kg	
0224.9050	50 kg	

Potassium Hydroxide

45 % / 'BAKER ANALYZED'

7063

► KOH

M = 56.11 g/mol

1 l = 1.46 kg

CAS NO. 1310-58-3

EINECS 215-181-3

NC CODE 2815 20 900

EC INDEX NO. 19 002 00 8

UN/ID NO. 1814

ADR/RID 8 C5

IMDG 8/II

H: H302-H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405



Danger

Assay	min. 45.0%
Ammonium Hydroxide Precipitate	max. 0.005%
Chloride (Cl)	max. 0.005%
Potassium Carbonate (K ₂ CO ₃)	max. 0.5%
Sodium (Na) (by AAS)	max. 0.02%
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Heavy Metals (as Ag)	max. 5
Iron (Fe)	max. 2
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 5
Phosphate (PO ₄)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
7063.1000	1 l	6
7063.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Potassium Hydroxide

7129

1 mol/l / 'BAKER ANALYZED'

M = 56.11 g/mol
1 l = 1.05 kg
CAS NO. 1310-58-3
EINECS 215-181-3
NC CODE 2815 20 900
UN/ID NO. 1814
ADR/RID 8 C5
IMDG 8/II
H: H314
P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405



Danger

Titer (mol/l) 0.995-1.005

PRODUCT NO.	PACKING	CONT. BOX
7129.1000	1 l	6

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Potassium Hydroxide

7639

0.23 mol/l / 'BAKER ANALYZED'

▶ KOH

M = 56.11 g/mol
CAS NO. 1310-58-3
EINECS 215-181-3
NC CODE 2815 20 900
EC INDEX NO. 19 002 00 8
UN/ID NO. 1814
ADR/RID 8 C5
IMDG 8/II
H: H315-H319
P: P280-P264-P305+P351+P338-
P362-P332+P313-P337+P313



Warning

Molarity (M) 0.228-0.232

PRODUCT NO.	PACKING	CONT. BOX
7639.9010	10 l	

Volumetric Solution, ready for use.

Potassium Hydroxide

7130

0.1 mol/l / 'BAKER ANALYZED'

M = 56.11 g/mol
1 l = 1.01 kg
CAS NO. 1310-58-3
EINECS 215-181-3
NC CODE 2815 20 900
UN/ID NO. 1814
ADR/RID 8 C5
IMDG 8/II
H: H315-H319
P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362



Warning

Titer (mol/l) 0.0995-0.1005

PRODUCT NO.	PACKING	CONT. BOX
7130.1000	1 l	6

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

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Potassium Hydroxide

1 mol/l / DILUT-IT / 1 equiv. = 56.11g; 1N

4674

► KOH

M = 56.11 g/mol

CAS NO. 1310-58-3

EINECS 215-181-3

NC CODE 2815 20 900

EC INDEX NO. 19 002 00 8

UN/ID NO. 1814

ADR/RID 8 C5

IMDG 8/II

H: H302-H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4674	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

Potassium Hydroxide

0.5 mol/l / DILUT-IT

4866

► KOH

NC CODE 2815 20 900

UN/ID NO. 1814

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4866	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

Potassium Hydroxide

0.1 mol/l / DILUT-IT / 1/10 equiv. = 5.611g; 0.1N

4673

► KOH

M = 56.11 g/mol

CAS NO. 1310-58-3

EINECS 215-181-3

NC CODE 2815 20 900

EC INDEX NO. 19 002 00 8

UN/ID NO. 1814

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4673	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

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 PERFORMANCE MATERIALS

Potassium Hydroxide in Ethanol

7131

0.5 mol/l / 'BAKER ANALYZED'

M = 56.11 g/mol

Titer (mol/l)

0.4975-0.5025

1 l = 0.81 kg

FLASHPOINT 11 °C

NC CODE 2207 10 000

UN/ID NO. 2924

ADR/RID 3 FC

IMDG 3/II

H: H225-H314

P: P210-P241-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
7131.1000	1 l	6
7131.2500	2.5 l	

Volumetric Solution, ready for use.

A light red color can occur in time due to product characteristics.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Potassium Hydroxide in Ethanol

7132

0.1 mol/l / 'BAKER ANALYZED'

M = 56.11 g/mol

Titer (mol/l)

0.0995-0.1005

1 l = 0.81 kg

FLASHPOINT 11 °C

NC CODE 2207 10 000

UN/ID NO. 2924

ADR/RID 3 FC

IMDG 3/II

H: H225-H315-H319

P: P210-P241-P280-
P303+P361+P353-
P305+P351+P338-P362

Danger

PRODUCT NO.	PACKING	CONT. BOX
7132.1000	1 l	6

Volumetric Solution, ready for use.

A light red color can occur in time due to product characteristics.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Potassium Hydroxide in IPA

7206

0.1 mol/l / 'BAKER ANALYZED'

FLASHPOINT 12 °C

Titer (mol/l)

0.0995-0.1005

NC CODE 3822 00 000

UN/ID NO. 2924

ADR/RID 3 FC

IMDG 3/II

H: H225-H315-H319-H336

P: P210-P241-P261-
P303+P361+P353-
P305+P351+P338-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
7206.1000	1 l	6

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

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Potassium Hydroxide in Methanol

0.5 mol/l / 'BAKER ANALYZED'

7121

▶ KOH

M = 56.11 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

NC CODE 3822 00 000

UN/ID NO. 2924

ADR/RID 3 FC

IMDG 3/II

H: H225-H311-H331-H370-H314

P: P210-P303+P361+P353-

P305+P351+P338-P310-

P361-P405



Danger

Titer (mol/l)

0.4975-0.5025

PRODUCT
NO.

PACKING

CONT.
BOX

7121.1000

1 l

6

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Potassium Hydroxide in Methanol

0.1 mol/l / 'BAKER ANALYZED'

7045

▶ KOH

M = 56.11 g/mol

1 l = 0.80 kg

FLASHPOINT 11 °C

NC CODE 3822 00 000

UN/ID NO. 3286

ADR/RID 3 FTC

IMDG 3/II

H: H225-H311-H331-H370-

H315-H319

P: P210-P241-P303+P361+P353-

P305+P351+P338-P361-P405



Danger

Chloride (Cl)

max. 10 ppm

Heavy Metals (as Pb)

max. 1 ppm

Iron (Fe)

max. 0.5 ppm

Nitrogen Compounds (as N)

max. 1 ppm

Titer (mol/l)

0.0997-0.1003

PRODUCT
NO.

PACKING

CONT.
BOX

7045.1000

1 l

6

7045.9025

25 l

For safe handling of 25 l tin cans, see Self-closing tap.

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Potassium Iodate

'BAKER ANALYZED' / ACS

0226

▶ KIO₃

M = 214.00 g/mol

CAS NO. 7758-05-6

EINECS 231-831-9

NC CODE 2829 90 800

UN/ID NO. 1479

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272

P: P210-P220-P221-P280-

P370+P378a-P501a



Danger

Exceeds ACS Specifications

Assay

99.4-100.4%

Chloride and Bromide (as Cl)

max. 0.01%

Insoluble Matter

max. 0.005%

Iodide (I)

max. 0.001%

Iron (Fe)

max. 0.001%

Nitrogen Compounds (as N)

max. 0.002%

pH of 5% Solution at 25°C

5.0-8.0

Sodium (Na)

max. 0.005%

Sulfate (SO₄)

max. 0.005%

Trace Impurities (in ppm):

Heavy Metals (as Pb)

max. 5

PRODUCT
NO.

PACKING

CONT.
BOX

0226.0250

250 g

Potassium Iodate

1/60 mol/l / 1/10 equiv. = 3.567g; 0.1N / DILUT-IT

4676

▶ KIO₃

M = 214.00 g/mol

CAS NO. 7758-05-6

EINECS 231-831-9

NC CODE 2829 90 800

PRODUCT
NO.

PACKING

CONT.
BOX

4676

1 Amp.

Volumetric Concentrate, for dilution to 1 l.

Potassium Iodide

0227 'BAKER ANALYZED' / ACS

► KI

M = 166.01 g/mol
CAS NO. 7681-11-0
EINECS 231-659-4
NC CODE 2827 60 000

Meets ACS Specifications

Assay	min. 99.0%
Barium (Ba)	max. 0.002%
Calcium (Ca)	max. 0.002%
Chloride and Bromide (as Cl)	max. 0.01%
Insoluble Matter	max. 0.005%
Loss on Drying at 150°C	max. 0.2%
Magnesium (Mg)	max. 0.001%
pH of 5% Solution at 25°C	6.0-9.2
Phosphate (PO ₄)	max. 0.001%
Sodium (Na)	max. 0.005%
Sulfate (SO ₄)	max. 0.005%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iodate (IO ₃)	max. 3
Iron (Fe)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0227.0250	250 g	6
0227.0500	500 g	6
0227.1000	1 kg	6

Potassium Iodide

0228 'BAKER'

► KI

M = 166.01 g/mol
CAS NO. 7681-11-0
EINECS 231-659-4
NC CODE 2827 60 000

Assay (KI)(dried basis)	99.0 - 101.5%
Alkalinity	passes test
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Iodate (IO ₃)	max. 4 ppm
Loss on Drying at 105°C	max. 1.0%
Nitrate, nitrite and ammonia	passes test
Thiosulfate and Barium	passes test

PRODUCT NO.	PACKING	CONT. BOX
0228.1000	1 kg	6
0228.5000	5 kg	

Potassium Iodide

0230 'BAKER'

► KI

M = 166.01 g/mol
CAS NO. 7681-11-0
EINECS 231-659-4
NC CODE 2827 60 000

Assay (dried basis)	99.0-100.5%
Alkalinity	passes test
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iodates (IO ₃)	passes test
Iron (Fe)	max. 20 ppm
Loss on Drying	max. 1.0%
Sulfates (as SO ₄)	max. 150 ppm
Thiosulfates (as S ₂ O ₃)	passes test

PRODUCT NO.	PACKING	CONT. BOX
0230.0250	250 g	6
0230.1000	1 kg	6
0230.5000	5 kg	

Stored protected from light.

Potassium meta-Bisulfite

See Potassium Disulfite

Potassium Nitrate

0231 'BAKER ANALYZED' / ACS

► KNO₃

M = 101.11 g/mol
CAS NO. 7757-79-1
EINECS 231-818-8
NC CODE 2834 21 000
UN/ID NO. 1486
ADR/RID 5.1 O2
IMDG 5.1/III
H: H272
P: P210-P220-P221-P280-P370+P378a-P501a



Danger

Exceeds ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.002%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.002%
Nitrite (NO ₂)	max. 0.001%
pH of 5% Solution at 25°C	4.5-7.0
Sodium (Na)	max. 0.005%
Sulfate (SO ₄)	max. 0.003%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iodate (IO ₃)	max. 5
Iron (Fe)	max. 2
Phosphate (PO ₄)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0231.0100	100 g	
0231.1000	1 kg	6

Potassium Nitrate

'BAKER'

0232

▶ KNO ₃	M = 101.11 g/mol	Assay	min. 99%	PRODUCT	PACKING	CONT.
				NO.		BOX
CAS NO.	7757-79-1	Insoluble Matter	max. 0.05%	0232.1000	1 kg	
EINECS	231-818-8					
NC CODE	2834 21 000					
UN/ID NO.	1486					
ADR/RID	5.1 O2					
IMDG	5.1/III					
H:	H272					
P:	P210-P220-P221-P280-P370+P378a-P501a					
						
Danger						

Potassium Nitrite

'BAKER ANALYZED' / ACS

0233

▶ KNO ₂	M =	85.11 g/mol	<i>Exceeds ACS Specifications</i>		PRODUCT	PACKING	CONT.
	CAS NO.	7758-09-0	Assay	min. 96.0%	NO.		BOX
	EINECS	231-832-4	Calcium (Ca)	max. 0.005%	0233.0250	250 g	
	NC CODE	2834 10 000	Chloride (Cl)	max. 0.02%			
	EC INDEX NO.	7 011 00 0	Heavy Metals (as Pb)	max. 0.001%			
	UN/ID NO.	1488	Insoluble Matter	max. 0.01%			
	ADR/RID	5.1 O2	Iron (Fe)	max. 0.001%			
	IMDG	5.1/II	Magnesium (Mg)	max. 0.002%			
	H:	H272-H301-H400	pH of 5% Solution at 25°C	7.0-10.0			
	P:	P210-P220-P221-P301+P310-P405-P501a	Sodium (Na)	max. 0.5%			
		Sulfate (SO ₄)	max. 0.01%				
							
Danger							

Potassium Oxalate Monohydrate

'BAKER'

1973

▶ KOCOCOOK.H ₂ O	M = 184.24 g/mol	Assay	min. 99%	PRODUCT	PACKING	CONT.
				NO.		BOX
CAS NO.	583-52-8	Chloride (Cl)	max. 0.002%	1973.1000	1 kg	
EINECS	209-506-8	Heavy Metals (as Pb)	max. 0.003%			
NC CODE	2917 11 000	Iron (Fe)	max. 0.001%			
EC INDEX NO.	607 007 00 3	Sulfate (SO ₄)	max. 0.02%			
UN/ID NO.	3282					
ADR/RID	6.1 T3					
IMDG	6.1/III					
H:	H302-H312					
P:	P264-P280-P301+P312-P312-P363-P501a					
						
Warning						

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Potassium Permanganate

0237 'BAKER ANALYZED' / ACS

► KMnO₄

M = 158.04 g/mol

CAS NO. 7722-64-7

EINECS 231-760-3

NC CODE 2841 61 000

EC INDEX NO. 25 002 00 9

UN/ID NO. 1490

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272-H302-H400-H410

P: P210-P220-P221-P280-
P301+P312-P501a

Danger

Meets ACS Specifications

Assay	min. 99.0%
Chloride and Chlorate (as Cl)	max. 0.005%
Insoluble Matter	max. 0.2%
Sulfate (SO ₄)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0237.0250	250 g	
0237.1000	1 kg	

3227

Potassium Permanganate

'BAKER ANALYZED' / Suitable for Mercury Determination / ACS

► KMnO₄

M = 158.04 g/mol

CAS NO. 7722-64-7

EINECS 231-760-3

NC CODE 2841 61 000

EC INDEX NO. 25 002 00 9

UN/ID NO. 1490

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272-H302-H400-H410

P: P210-P220-P221-P280-
P301+P312-P501a

Danger

Meets ACS Specifications

Assay	min. 99.0%
Chloride and Chlorate (as Cl)	max. 0.005%
Insoluble Matter	max. 0.2%
Sulfate (SO ₄)	max. 0.02%

Trace Impurities (in ppm):

Mercury (Hg)	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
3227.0500	500 g	

7057

Potassium Permanganate

0.02 mol/l 0.1N / 'BAKER ANALYZED'

► KMnO₄

M = 158.04 g/mol

CAS NO. 7722-64-7

EINECS 231-760-3

NC CODE 2841 61 000

H: H412

P: P273-P501a

Titer (N) 0.0997-0.1003

Trace Impurities (in ppm):

Chloride and Chlorate (as Cl)	max. 10
Sulfate (SO ₄)	max. 20

PRODUCT NO.	PACKING	CONT. BOX
7057.1000	1 l	6
7057.2500	2.5 l	4

Volumetric Solution, ready for use.

Each lot of this product is standardized at 25°C against Sodium Oxalate (NIST traceable reference standard).

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Potassium Peroxodisulfate

crystal / 'BAKER INSTRA-ANALYZED' / Suitable for Phosphate and Mercury Determinations / ACS

0377

► $K_2S_2O_8$

M = 270.33 g/mol

CAS NO. 7727-21-1

EINECS 231-781-8

NC CODE 2833 40 000

UN/ID NO. 1492

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272-H302-H315-H317-H319-
H334-H335P: P210-P221-P285-
P305+P351+P338-P405-P501a

Danger

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay	min. 99.0%
Chlorine Compounds (as Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%

Trace Impurities (in ppm):

Iron (Fe)	max. 5
Manganese (Mn)	max. 2
Mercury (Hg)	act. value reported
Phosphate (PO_4)	max. 2.5

PRODUCT NO.	PACKING	CONT. BOX
0377.0500	500 g	6

Potassium Peroxodisulfate

'BAKER ANALYZED'

0239

► $K_2S_2O_8$

M = 270.33 g/mol

CAS NO. 7727-21-1

EINECS 231-781-8

NC CODE 2833 40 000

UN/ID NO. 1492

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272-H302-H315-H317-H319-
H334-H335P: P210-P221-P285-
P305+P351+P338-P405-P501a

Danger

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Manganese (Mn)	max. 2 ppm
Nitrogen Compounds (as N)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
0239.1000	1 kg	6
0239.5000	5 kg	4

Potassium Persulfate

See Potassium Peroxodisulfate

Potassium Phosphate, Dibasic

See Potassium Hydrogen Phosphate Anhydrous

Potassium Phosphate n-Hydrate

powder / 'BAKER ANALYZED'

0243

► $K_3PO_4 \cdot nH_2O$

M = 212.56 g/mol

CAS NO. 7778-53-2

EINECS 231-907-1

NC CODE 2835 24 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Chloride (Cl)	max. 0.005%
Dibasic Salt (as K_2HPO_4)	max. 1.5%
Excess Alkali (as KOH)	max. 0.5%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Nitrogen Compounds (as N)	max. 0.002%
Sulfate (SO_4)	max. 0.005%

Trace Impurities (in ppm):

Arsenic (As)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0243.0500	500 g	

Potassium Phosphate, Monobasic

See Potassium Dihydrogen Phosphate

Potassium Phosphate, Tribasic

See Potassium Phosphaten-Hydrate

Potassium Platinum(IV) Chloride

See Potassium Hexachloroplatinate(IV)

Potassium Pyrosulfate

0245

'BAKER ANALYZED' / ACS

▶ $K_2S_2O_7$

M = 254.32 g/mol

CAS NO. 7790-62-7

EINECS 232-216-8

NC CODE 2833 29 900

Exceeds ACS Specifications

Acidity (as H_2SO_4)	37.5-38.6%
Arsenic (As)	max. 0.0005%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Magnesium (Mg)	max. 0.0005%
Phosphate (PO_4)	max. 0.001%
Sodium (Na)	max. 0.01%
Water (H_2O)	max. 2.5%

PRODUCT NO.	PACKING	CONT. BOX

0245.0100 100 g



Potassium Pyrosulfite

See Potassium Disulfite



Potassium Rhodanide

See Potassium Thiocyanate

0246

Potassium Sodium Tartrate 4aq

'BAKER ANALYZED' / ACS

▶ $KNaC_4H_4O_6 \cdot 4H_2O$

M = 282.23 g/mol

CAS NO. 6381-59-5

EINECS 206-156-8

NC CODE 2918 13 000

Exceeds ACS Specifications

Assay	99.0-102.0%
Ammonium (NH_4)	max. 0.002%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	6.0-8.5
Phosphate (PO_4)	max. 0.001%
Sulfate (SO_4)	max. 0.005%

Trace Impurities:

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

0246.1000 1 kg 6

1971

Potassium Sodium Tartrate 4aq

'BAKER'

▶ $KNaC_4H_4O_6 \cdot 4H_2O$

M = 282.23 g/mol

CAS NO. 6381-59-5

EINECS 206-156-8

NC CODE 2918 13 000

Assay	min. 99.0%
Appearance	passes test
Chloride (Cl)	max. 0.002%
Sulfate (SO_4)	max. 0.005%

Trace Impurities:

Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX

1971.1000 1 kg

0247

Potassium Sulfate

crystal / 'BAKER ANALYZED' / ACS

▶ K_2SO_4

M = 174.27 g/mol

CAS NO. 7778-80-5

EINECS 231-915-5

NC CODE 3104 30 000

Meets ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	5.5-8.5
Sodium (Na)	max. 0.02%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Nitrogen Compounds (as N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

0247.1000 1 kg 6

Potassium Sulfate

crystal / 'BAKER'

0512

▶ K₂SO₄

M = 174.27 g/mol

CAS NO. 7778-80-5

EINECS 231-915-5

NC CODE 3104 30 000

Assay

min. 99%

Appearance

passes test

PRODUCT
NO.

PACKING

CONT.
BOX

0512.1000

1 kg

6

Potassium Thiocyanate

'BAKER ANALYZED' / ACS

0250

▶ KSCN

M = 97.18 g/mol

CAS NO. 333-20-0

EINECS 206-370-1

NC CODE 2838 00 000

EC INDEX NO. 615 004 00 3

H: EUH032-H302-H312-H332

P: P261-P280-P301+P312-

P304+P340-P312-P501a



Warning

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay

min. 98.5%

Ammonium (NH₄)

max. 0.003%

Appearance

passes test

Chloride (Cl)

max. 0.005%

Heavy Metals (as Pb)

max. 5 ppm

Insoluble in Water

max. 0.005%

Iodine-consuming Substances (meq/g)

passes test

Iron (Fe)

max. 2 ppm

pH of 5% Solution at 25°C

5.3-8.7

Sodium (Na)

max. 0.005%

Sulfate (SO₄)

max. 0.005%

PRODUCT
NO.

PACKING

CONT.
BOX

0250.0100

100 g

0250.1000

1 kg

Primary Drinking Water Standard I

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

6021-01

NC CODE 3822 00 000

H: H314

P: P260-P280-P303+P361+P353-

P305+P351+P338-P310-P405



Danger

Elemental Concent (µg/ml):

Arsenic (As)

10

Barium (Ba)

100

Cadmium (Cd)

5

Chromium (Cr)

10

Lead (Pb)

10

Selenium (Se)

5

Silver (Ag)

10

PRODUCT
NO.

PACKING

CONT.
BOX

6021-01

100 ml

For use in EPA SW-846 Methods 6010 and 200.7.

Traceable to NIST.

Propanedioic Acid

See Malonic Acid

1,2-Propanediol

See Propylene Glycol

1,2,3-Propanetriol

See Glycerol

1-Propanol

'BAKER ANALYZED'

8066

▶ CH₃CH₂CH₂OH

M = 60.10 g/mol

1 l = 0.80 kg

FLASHPOINT 15 °C

CAS NO. 71-23-8

EINECS 200-746-9

NC CODE 2905 12 000

EC INDEX NO. 603 003 00 0

UN/ID NO. 1274

ADR/RID 3 F1

IMDG 3/II

H: H225-H318-H336

P: P210-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Assay (by GC)

min. 99%

2-Propanol (CH₃CHOHCH₃) (by GC)

max. 0.05%

Boiling Range

max. 2.0°C

Color (APHA)

max. 10

Density (g/ml) at 25°C

0.800-0.804

Ethanol (C₂H₅OH) (by GC)

max. 0.05%

Free Acid (as C₂H₅COOH)

max. 0.001%

Methanol (by GC) (CH₃OH)

max. 0.05%

Recorded Boiling Point

97.2°C

Residue after Evaporation

max. 0.005%

Substances Darkened by H₂SO₄

passes test

Substances Reducing KMnO₄ (as O)

max. 0.0003%

Water (H₂O) (by Karl Fischer titrn.)

max. 0.1%

Trace Impurities (in ppm):

Aluminium (Al)

max. 0.5

Barium (Ba)

max. 0.1

Boron (B)

max. 0.02

Cadmium (Cd)

max. 0.05

Calcium (Ca)

max. 0.5

Chromium (Cr)

max. 0.02

Cobalt (Co)

max. 0.02

Copper (Cu)

max. 0.02

Iron (Fe)

max. 0.1

Lead (Pb)

max. 0.1

Magnesium (Mg)

max. 0.1

Manganese (Mn)

max. 0.02

Nickel (Ni)

max. 0.02

Tin (Sn)

max. 0.1

Zinc (Zn)

max. 0.1

PRODUCT
NO.

PACKING

CONT.
BOX

8066.1000

1 l

6

8066.2500

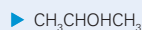
2.5 l

4

2-Propanol

9334

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis



M = 60.10 g/mol

1 l = 0.78 kg

FLASHPOINT 12 °C

CAS NO. 67-63-0

EINECS 200-661-7

NC CODE 2905 12 000

EC INDEX NO. 603 003 00 4

UN/ID NO. 1219

ADR/RID 3 F1

IMDG 3/II

H: H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC) (corrected for water) min. 99.7%

Color (APHA) max. 10

Residue after Evaporation max. 1 ppm

Water (by KF, coulometric) max. 0.1%

Trace Organic Residues:

ECD-Sensitive Impurities (as Heptachlor Epoxide)

Single Impurity Peak (pg/ml) max. 10

FID-Sensitive Impurities (as 2-Octanol) Single

Impurity Peak (ng/ml) max. 5

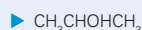
PRODUCT NO.	PACKING	CONT. BOX
9334.1000	1 l	6
9334.4000	4 l Glass	

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

8175

2-Propanol

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography



M = 60.10 g/mol

1 l = 0.78 kg

FLASHPOINT 12 °C

CAS NO. 67-63-0

EINECS 200-661-7

NC CODE 2905 12 000

EC INDEX NO. 603 117 00 0

UN/ID NO. 1219

ADR/RID 3 F1

IMDG 3/II

H: H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC) (corrected for water) min. 99.7%

Residue after Evaporation (in ppm) max. 2

Water (H₂O) (by Karl Fischer titrn.) max. 0.03%**Product Information (not specifications):**

Density (g/ml) at 20°C 0.785

Ultraviolet Absorbance (1.00-cm path vs water):

at 225 nm max. 0.16

at 254 nm max. 0.02

at 280 nm max. 0.01

at 350 nm max. 0.01

UV Cut-off, nm max. 205

PRODUCT NO.	PACKING	CONT. BOX
8175.1000	1 l	6
8175.2500	2.5 l	4
8175.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

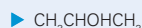
Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

8068

2-Propanol

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS



M = 60.10 g/mol

1 l = 0.78 kg

FLASHPOINT 12 °C

CAS NO. 67-63-0

EINECS 200-661-7

NC CODE 2905 12 000

EC INDEX NO. 603 117 00 0

UN/ID NO. 1219

ADR/RID 3 F1

IMDG 3/II

H: H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water) min. 99.5%

Carbonyl Compounds (max. 0.002%

Propionaldehyde and max. 0.002% Acetone) passes test

Color (APHA) max. 10

Residue after Evaporation max. 5 ppm

Solubility in Water passes test

Titrable Acid or Base (meq/g) max. 0.0001

Water (H₂O) (by Karl Fischer titrn.) max. 0.05%**Ultraviolet Absorbance (1.00-cm path vs water):**

at 210 nm max. 1.00

at 220 nm max. 0.40

at 230 nm max. 0.20

at 245 nm max. 0.08

at 260 nm max. 0.04

at 275 nm max. 0.03

at 300 nm max. 0.02

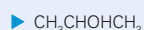
at 330-400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8068.1000	1 l	6
8068.2500	2.5 l	4

2-Propanol

'BAKER ANALYZED' / ACS

8067



M = 60.10 g/mol

1 l = 0.78 kg

FLASHPOINT 12 °C

CAS NO. 67-63-0

EINECS 200-661-7

NC CODE 2905 12 000

EC INDEX NO. 603 117 00 0

UN/ID NO. 1219

ADR/RID 3 F1

IMDG 3/II

H: H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a


Danger

Exceeds ACS Specifications

Assay (by GC) (corrected for water)	min. 99.5%
Carbonyl Compounds (max. 0.002%	
Propionaldehyde and max. 0.002% Acetone)	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Titration Acid or Base (meq/g)	max. 0.0001
Water (H ₂ O)	max. 0.1%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02

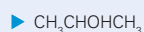
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8067.1000	1 l	6
8067.2500	2.5 l	4
8067.5000	5 l EcoTainer	4
8067.9020	20 l	
8067.9025	25 l	
8067.9200	200 l	
EcoTainer, the metal solvent can for more safety in the lab.		
For safe handling of 25 l tin cans, see Self-closing tap.		

2-Propanol

'BAKER'

8119



M = 60.10 g/mol

1 l = 0.78 kg

FLASHPOINT 12 °C

CAS NO. 67-63-0

EINECS 200-661-7

NC CODE 2905 12 000

EC INDEX NO. 603 117 00 0

UN/ID NO. 1219

ADR/RID 3 F1

IMDG 3/II

H: H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a


Danger

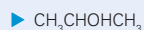
Assay (by GC)	min. 99%
Acidity (as CH ₃ COOH)	max. 0.002%
Alkalinity (as NH ₃)	max. 0.002%
Boiling Range	max. 1.0°C
Density (g/ml) at 25°C	0.781-0.783
Recorded Boiling Point	82°C
Residue after Evaporation	max. 0.005%
Water (H ₂ O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
8119.2500	2.5 l	
8119.5000	5 l	
8119.9025	25 l	
8119.9200	200 l	
EcoTainer, the metal solvent can for more safety in the lab.		
For safe handling of 25 l tin cans, see Self-closing tap.		

2-Propanol

99.5% / HISTO GRADE

3401



M = 60.10 g/mol

1 l = 0.78 kg

FLASHPOINT 12 °C

CAS NO. 67-63-0

EINECS 200-661-7

NC CODE 2905 12 000

EC INDEX NO. 603 117 00 0

UN/ID NO. 1219

ADR/RID 3 F1

IMDG 3/II

H: H225-H319-H336

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a


Danger

Assay	min. 99.5%

PRODUCT NO.	PACKING	CONT. BOX
3401.5000	5 l Jerrycan	
3401.9025	25 l Jerrycan	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Propenamide

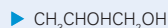
See Acrylamide

iso-Propyl Alcohol

See Propanol

▶ **n-Propyl Alcohol**[See Propanol](#)▶ **iso-Propyl Ether**[See Diisopropyl Ether](#)

7064

Propylene Glycol**'BAKER'****M** = 76.10 g/mol**1 l** = 1.03 kg**FLASHPOINT** 99 °C**CAS NO.** 57-55-6**EINECS** 200-338-0**NC CODE** 2905 32 000Acidity (as CH_3COOH)

max. 0.005%

Boiling Range

185-189°C

Chloride (Cl)

max. 0.001%

Density (g/ml) at 25°C

1.032-1.034

Residue after Ignition

max. 0.005%

Water (H_2O)

max. 0.2%

Trace Impurities (in ppm):

Arsenic (As)

max. 1

Heavy Metals (as Pb)

max. 5

PRODUCT**NO.**

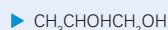
7064.1000

PACKING

1 l

CONT.**BOX**

7169

Propylene Glycol**'BAKER'****M** = 76.10 g/mol**1 l** = 1.03 kg**FLASHPOINT** 99 °C**CAS NO.** 57-55-6**EINECS** 200-338-0**NC CODE** 2905 32 000

Assay

min. 99.5%

Acidity

passes test

Appearance of solution

passes test

Chloride (Cl)

max. 0.007%

Density (g/ml) at 20°C

1.035-1.040

Identification

passes test

Organic Volatile Impurities

passes test

Oxidizing substances

passes test

Reducing Substances

passes test

Refractive Index at 25°C, n_D^{25}

1.431-1.433

Residue on Ignition (as SO_4)

max. 0.007%

Specific Gravity 25°C/25°C

1.035-1.037

Sulfate (SO_4)

max. 0.006%

Water (H_2O)

max. 0.2%

Trace Impurities (in ppm):

Heavy Metals (as Pb)

max. 5 ppm

PRODUCT**NO.**

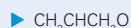
7169.9025

PACKING

25 l

CONT.**BOX**

8822

Propylene Oxide**'BAKER'****M** = 58.08 g/mol**1 l** = 0.83 kg**FLASHPOINT** -37 °C**CAS NO.** 75-56-9**EINECS** 200-879-2**NC CODE** 2910 20 000**EC INDEX NO.** 603 055 00 4**UN/ID NO.** 1280**ADR/RID** 3 F1**IMDG** 3/I**H:** H224-H302-H312-H315-H319-
H332-H335-H340-H350**P:** P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC)

min. 99%

Boiling Point

33-35°C

Color (APHA)

max. 10

Water (H_2O)

max. 0.01%

PRODUCT**NO.**

8822.1000

PACKING

1 l

CONT.**BOX**

1926

Pumice Stone

granular 1.5 mm / 'BAKER'

NC CODE 2513 19 000

Acid-soluble substances

max. 6.0%

Iron (Fe)

passes test

Water Soluble Substances

max. 0.20%

PRODUCT**NO.**

1926.1000

PACKING

1 kg

CONT.**BOX**

Pyridine

Low Water / 'BAKER HPLC ANALYZED' / For Use in Liquid Chromatography and Spectrophotometry

9393

▶ N:CHCH:CHCH:CH

M = 79.10 g/mol

1 l = 0.98 kg

FLASHPOINT 17 °C

CAS NO. 110-86-1

EINECS 203-809-9

NC CODE 2933 31 000

EC INDEX NO. 613 002 00 7

UN/ID NO. 1282

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H332

P: P210-P241-P261-P280-

P303+P361+P501a



Danger

Assay (by GC) (corrected for water)	min. 99.0%
Ammonia (NH ₃)	max. 0.002%
Color (APHA)	max. 10
Reducing Substances	passes test
Residue after Evaporation	max. 5 ppm
Solubility in Water	passes test
Sulfate (SO ₄)	max. 0.001%
Water (by KF, volumetric)	max. 0.01%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Copper (Cu)	max. 5

Ultraviolet Absorbance (1.00-cm path vs water):

at 330 nm	max. 1.00
at 340 nm	max. 0.10
at 350 nm	max. 0.01
at 375 nm	max. 0.01
at 400 nm	max. 0.005

PRODUCT NO.	PACKING	CONT. BOX
9393.1000	1 l	

Pyridine

'BAKER ANALYZED' / ACS

8073

▶ C₅H₅N

M = 79.10 g/mol

1 l = 0.98 kg

FLASHPOINT 17 °C

CAS NO. 110-86-1

EINECS 203-809-9

NC CODE 2933 31 000

EC INDEX NO. 613 002 00 7

UN/ID NO. 1282

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H332

P: P210-P241-P261-P280-

P303+P361+P501a



Danger

Exceeds ACS Specifications

Assay (by GC)	min. 99.0%
Ammonia (NH ₃)	max. 0.002%
Chloride (Cl)	max. 0.001%
Reducing Substances	passes test
Residue after Evaporation	max. 0.002%
Solubility in Water	passes test
Suitability for OH groups determ. by phthalisation	passes test
Sulfate (SO ₄)	max. 0.001%
Water (H ₂ O)	max. 0.1%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.1
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02

Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 1.0

PRODUCT NO.	PACKING	CONT. BOX
8073.1000	1 l	6
8073.2500	2.5 l	4

IMPORTANT: Material will freeze if stored below 20°C.

Pyridine

'BAKER'

8074

▶ C₅H₅N

M = 79.10 g/mol

1 l = 0.98 kg

FLASHPOINT 17 °C

CAS NO. 110-86-1

EINECS 203-809-9

NC CODE 2933 31 000

EC INDEX NO. 613 002 00 7

UN/ID NO. 1282

ADR/RID 3 F1

IMDG 3/II

H: H225-H302-H312-H332

P: P210-P241-P261-P280-

P303+P361+P501a



Danger

Chloride (Cl)	max. 0.005%
Residue after Evaporation	max. 0.005%
Water (H ₂ O)	max. 0.25%

PRODUCT NO.	PACKING	CONT. BOX
8074.2500	2.5 l	
8074.9025RT	25 l	

1-(2-Pyridylazo)-2-naphthol

See PAN

Pyrogalllic Acid

See Pyrogallol

Pyrogallol

1171 'BAKER ANALYZED' / ACS

▶ 1,2,3-(HO)₃C₆H₃

M = 126.11 g/mol

CAS NO. 87-66-1

EINECS 201-762-9

NC CODE 2907 29 000

EC INDEX NO. 604 009 00 6

UN/ID NO. 2811

ADR/RID 6.1 T2

IMDG 6.1/III

H: H302-H312-H332-H341-H412

P: P261-P280-P281-P301+P312-P405-P501a



Warning

Meets ACS Specifications

Chloride (Cl)	max. 0.001%
Iron (Fe)	max. 0.001%
Melting Point	131.0-135.0°C
Residue after Ignition	max. 0.005%
Sulfate (SO ₄)	max. 0.005%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1171.0100	100 g	

▶ Pyruvic Acid, Sodium Salt

See Sodium Pyruvate

▶ Quinol

See Hydroquinone

RBS35

7348

H: H315-H319

P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
7348.5000	5 l EcoTainer	
EcoTainer, the metal solvent can for more safety in the lab.		

Reagent for silicic acid determination

7534 'BAKER ANALYZED' / Reduction solution (Reagent 294)

NC CODE 3822 00 000

H: H317-H318-H412

P: P261-P273-P280-P305+P351+P338-P310-P363



Danger

PRODUCT NO.	PACKING	CONT. BOX
7534.9020	20 l	

Contains: Silicate-free Water, 4-(Methylamino)phenol Sulfate, Potassium Disulfite.

Reagent for silicic acid determination

7535 'BAKER ANALYZED' / Molybdate solution (Reagent 293)

NC CODE 3822 00 000

H: EUH210-H315-H319

P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

PRODUCT NO.	PACKING	CONT. BOX
7535.9020	20 l Polycube	

Contains: Silicate-free Water, Ammonium Heptamolybdate Tetrahydrate, Silicate-free Ammonium Hydroxide.

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'BAKER ANALYZED' / ACS

1388

▶ $\text{NH}_4[\text{Cr}(\text{SCN})_4(\text{NH}_3)_2]\cdot\text{H}_2\text{O}$

M = 354.44 g/mol

CAS NO. 13573-16-5

EINECS 237-003-3

NC CODE 2842 90 900

H: H302-H312-H332

P: P261-P280-P301+P312-

P304+P340-P312-P501a



Warning

Meets ACS Specifications

Assay	min. 93.0%
Insoluble in Dilute HCl	max. 0.05%
Sensitivity	passes test

PRODUCT NO.	PACKING	CONT. BOX
1388.0025	25 g Glass	

Rhodamine B

'BAKER'

1389

▶ $\text{C}_{20}\text{H}_{31}\text{ClN}_2\text{O}_3$

M = 479.02 g/mol

CAS NO. 81-88-9

EINECS 201-383-9

NC CODE 3204 19 000

H: H318-H412

P: P273-P280-P305+P351+P338-

P310-P501a



Danger

Sensitivity as Indicator	passes test
Solubility	passes test

PRODUCT NO.	PACKING	CONT. BOX
1389.0100	100 g	

Sand

washed and ignited / 'BAKER'

0252

NC CODE 2505 90 000

Appearance	passes test

PRODUCT NO.	PACKING	CONT. BOX
0252.1000	1 kg	6
0252.5000	5 kg	4
0252.9050	50 kg	

Scandium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5776

▶ Sc

M = 44.96 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

Scandium (Sc)	998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5776.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

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Scandium 10000 µg/ml

5742 (Matrix: 7% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

► Sc

Scandium (Sc)

9980-10020 µg/ml

M = 44.96 g/mol

NC CODE 3822 00 000

UN/ID NO. 2031

ADR/RID 8 CO1

IMDG 8/II

H: H272-H314

P: P210-P221-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
5742.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Scotch Buffer

3872 HISTO GRADE / Bluing solution

NC CODE 382 20 000

Ready to use Bluing Solution for use in HE staining.

PRODUCT NO.	PACKING	CONT. BOX
3872.5000	5 l Polycube	

Selenium 1000 µg/ml

5777 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

► Se

Selenium (Se)

998-1002 µg/ml

M = 78.96 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-
P305+P351+P338-P362

Danger

PRODUCT NO.	PACKING	CONT. BOX
5777.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Selenium 1000 µg/ml

6938 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

► Se

Selenium (Se)

998-1002 µg/ml

M = 78.96 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
6938.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Selenium 10000 µg/ml

5743 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

► Se

Selenium (Se)

9980-10020 µg/ml

M = 78.96 g/mol

NC CODE 3822 00 000

EC INDEX NO. 34 002 00 8

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
5743.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Silica Gel

0.063 - 0.200 mm / 'BAKER ANALYZED' / For Chromatography

0253

EINECS	215-683-2	Alcohol-Ether Soluble Substances	max. 0.05%
NC CODE	2811 22 000	Loss on Drying	max. 6.0%

PRODUCT NO.	PACKING	CONT. BOX
0253.0500	500 g	
0253.1000	1 kg	
0253.5000	5 kg	
0253.9025	25 kg	

Silica Gel

with Indicator: Cobalt(II)chloride / 1-3 mm / 'BAKER'

1826

EINECS	215-683-2	Appearance	passes test
NC CODE	2811 22 000		
H:	EUH208-H350i-H412		
P:	P201-P202-P273-P281-P308+P313-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
1826.1000	1 kg	6

Silica Gel

with Indicator: Cobalt(II)chloride / 3-6 mm / 'BAKER'

1827

EINECS	215-683-2	Appearance	passes test
NC CODE	2811 22 000		
H:	EUH208-H350i-H412		
P:	P201-P202-P273-P281-P308+P313-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
1827.1000	1 kg	6

Silicic Acid

powder / 'BAKER ANALYZED'

0324-01

▶ $\text{SiO}_2 \cdot n\text{H}_2\text{O}$	Assay (as SiO_2)	min. 84%
CAS NO. 1343-98-2	Chloride (Cl)	max. 0.01%
EINECS 215-683-2	Heavy Metals (as Pb)	max. 0.002%
NC CODE 2811 22 000	Iron (Fe)	max. 0.007%
	Loss on Ignition (as H_2O)	max. 16%
	Nonvolatile with HF	max. 0.2%
	Sulfate (SO_4)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0324-01	500 g HDPE	

Silicon 1000 µg/ml

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5778

▶ Si	Silicon (Si)	998-1002 µg/ml
M = 28.09 g/mol		
1 l = 1.03 kg		
NC CODE 3822 00 000		
H: H315		
P: P264-P280-P302+P352-P321-P332+P313-P362		



Warning

PRODUCT NO.	PACKING	CONT. BOX
5778.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within $\pm 0.2\%$. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Silicon 1000 µg/ml

6939

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard



Si
M = 28.09 g/mol
1 l = 1.00 kg
NC CODE 3822 00 000
EC INDEX NO. 9 012 00 0
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Silicon (Si)

998-1002 µg/ml

PRODUCT NO.

6939.0100

PACKING

100 ml

CONT. BOX

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Silicon 10000 µg/ml

5744

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard



Si
M = 28.09 g/mol
NC CODE 3822 00 000
H: H272-H315-H319
P: P210-P220-P221-P280-P305+P351+P338-P362



Danger

Silicon (Si)

9980-10020 µg/ml

PRODUCT NO.

5744.0100

PACKING

100 ml

CONT. BOX

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Silicone Emulsion

See Antifoam B

Silver 1000 µg/ml

5779

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard



Ag
M = 107.87 g/mol
NC CODE 3822 00 000
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Silver (Ag)

998-1002 µg/ml

PRODUCT NO.

5779.0100

PACKING

100 ml

CONT. BOX

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Silver 1000 µg/ml

6940

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard



Ag
M = 107.87 g/mol
NC CODE 3822 00 000
H: H315-H319
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Silver (Ag)

998-1002 µg/ml

PRODUCT NO.

6940.0100

PACKING

100 ml

CONT. BOX

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Silver 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6821

▶ Ag	Silver (Ag)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 107.87 g/mol			6821.0100	100 ml	
NC CODE 3822 00 000					
H: H315					
P: P264-P280-P302+P352-P321-P332+P313-P362					
					
Warning					

Silver Nitrate in Nitric Acid 0.5 mol/l.

Silver 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5745

▶ Ag	Silver (Ag)	9980-10020 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 107.87 g/mol			5745.0100	100 ml	
NC CODE 3822 00 000					
H: H272-H315-H319-H412					
P: P210-P220-P221-P280-P305+P351+P338-P362					
 					
Danger					

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Silver Chloride

'BAKER ANALYZED'

1180

▶ AgCl	Assay	min. 99.0%	PRODUCT NO.	PACKING	CONT. BOX
M = 143.32 g/mol	Heavy Metals (as Pb)	max. 0.005%	1180.0025	25 g Glass	
CAS NO. 7783-90-6	Iron (Fe)	max. 0.003%	1180.0100	100 g	
EINECS 232-033-3	Nitrate (NO ₃)	max. 0.001%	1180.1000	1 kg	
NC CODE 2843 29 000	Trace Impurities (in ppm):				
	Copper (Cu)	max. 5			

Silver Nitrate

'BAKER ANALYZED' / ACS

1182

▶ AgNO ₃	Exceeds ACS Specifications		PRODUCT NO.	PACKING	CONT. BOX
M = 169.87 g/mol	Assay	min. 99.9%	1182.0025	25 g Glass	6
CAS NO. 7761-88-8	Clarity of Solution	passes test	1182.0100	100 g	6
EINECS 231-853-9	Free Acid	passes test	1182.0250	250 g	6
NC CODE 2843 21 000	Lead (Pb)	max. 0.001%	1182.1000	1 kg	
EC INDEX NO. 47 001 00 2	Substances not Precipitated by HCl	max. 0.01%			
UN/ID NO. 1493	Sulfate (SO ₄)	max. 0.002%			
ADR/RID 5.1 O2	Trace Impurities (in ppm):				
IMDG 5.1/II	Chloride (Cl)	max. 5			
H: H272-H314-H400-H410	Copper (Cu)	max. 2			
P: P221-P303+P361+P353-P305+P351+P338-P310-P405-P501a	Iron (Fe)	max. 2			
  					
Danger					

Silver Nitrate

7095

1 ml = 1 mg Chloride / 'BAKER ANALYZED' / Standard Solution

▶ AgNO₃

M = 169.87 g/mol

CAS NO. 7761-88-8

EINECS 231-853-9

NC CODE 2843 21 000

H: H412

P: P273-P501a

Titer

0.995-1.005mg Cl/ml

Trace Impurities (in ppm):

Chloride (Cl) max. 1

Sulfate (SO₄) max. 1PRODUCT
NO.

PACKING

CONT.
BOX

7095.1000

1 l

6

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Sodium Chloride.

Silver Nitrate

7246

1 mol/l / 'BAKER ANALYZED'

▶ AgNO₃

M = 169.87 g/mol

1 l = 1.14 kg

CAS NO. 7761-88-8

EINECS 231-853-9

NC CODE 2843 21 000

UN/ID NO. 1760

ADR/RID 8 C9

IMDG 8/II

H: H314-H411

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Titer (mol/l)

0.995-1.005

PRODUCT
NO.

PACKING

CONT.
BOX

7246.1000

1 l

6

Volumetric Solution, ready for use.

Silver Nitrate

7096

0.1 mol/l / 'BAKER ANALYZED'

▶ AgNO₃

M = 169.87 g/mol

1 l = 1.01 kg

CAS NO. 7761-88-8

EINECS 231-853-9

NC CODE 2843 21 000

H: H315-H319-H412

P: P273-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Titer (mol/l)

0.0997-0.1003

Trace Impurities (in ppm):

Chloride (Cl) max. 1

Sulfate (SO₄) max. 1PRODUCT
NO.

PACKING

CONT.
BOX

7096.1000

1 l

6

7096.5000PC 5 l Polycube

7096.9010 10 l Polycube

7096.9020 20 l Polycube

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Sodium Chloride.

Silver Nitrate

7245

0.05 mol/l / 'BAKER ANALYZED'

▶ AgNO₃

M = 169.87 g/mol

1 l = 1.01 kg

CAS NO. 7761-88-8

EINECS 231-853-9

NC CODE 2843 21 000

H: H412

P: P273-P501a

Titer (mol/l)

0.0495-0.0505

PRODUCT
NO.

PACKING

CONT.
BOX

7245.1000

1 l

6

Volumetric Solution, ready for use.

Silver Nitrate

0.25 mol/l / DILUT-IT

4682

▶ AgNO₃

M = 169.87 g/mol

CAS NO. 7761-88-8

EINECS 231-853-9

NC CODE 2843 21 000

UN/ID NO. 1493

ADR/RID 5.1 O2

IMDG 5.1/II

H: H314-H400-H410

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4682	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

Silver Nitrate

0.1 mol/l / DILUT-IT

4681

▶ AgNO₃

M = 169.87 g/mol

CAS NO. 7761-88-8

EINECS 231-853-9

NC CODE 2843 21 000

UN/ID NO. 1760

ADR/RID 8 C9

IMDG 8/II

H: H314-H400-H410

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4681	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Silver Sulfate

Low in Nitrate / 'BAKER ANALYZED' / ACS

1183

▶ Ag₂SO₄

M = 311.80 g/mol

CAS NO. 10294-26-5

EINECS 233-653-7

NC CODE 2843 29 000

H: H318

P: P280-P305+P351+P338-P310



Danger

Exceeds ACS Specifications

Assay	min. 99.5%
Insoluble Matter and Silver Chloride	max. 0.02%
Iron (Fe)	max. 0.001%
Nitrate (NO ₃)	max. 0.001%
Substances not Precipitated by HCl	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
1183.0025	25 g Glass	6
1183.0100	100 g	

Silver Sulfate

'BAKER ANALYZED'

1536

▶ Ag₂SO₄

M = 311.80 g/mol

CAS NO. 10294-26-5

EINECS 233-653-7

NC CODE 2843 29 000

H: H318

P: P280-P305+P351+P338-P310



Danger

Assay	min. 99.5%
Insoluble Matter and Chloride	max. 0.02%
Iron (Fe)	max. 0.001%
Nitrate (NO ₃)	max. 0.01%
Substances not Precipitated by HCl	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
1536.0025	25 g Glass	6
1536.0100	100 g	
1536.0250	250 g	

Silver Sulfate-Sulfuric acid

7147

10g Ag₂SO₄ + 35ml H₂O + 965ml H₂SO₄ 96% / 'BAKER ANALYZED' / For COD determination according DIN 38409 vol. 41 and NEN 6633

1 l = 1.84 kg
 NC CODE 3822 00 000
 UN/ID NO. 1830
 ADR/RID 8 C1
 IMDG 8/II
 H: H314
 P: P260-P280-P303+P361+P353-
 P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
7147.1000	1 l	6
7147.2500	2.5 l	4

Volumetric Solution, ready for use.

Silver Sulfate-Sulfuric acid

7641

6.6 g/l / 'BAKER ANALYZED' / For the COD determination according AFNOR NFT 90-101

1 l = 1.84 kg
 NC CODE 3822 00 000
 UN/ID NO. 1830
 ADR/RID 8 C1
 IMDG 8/II
 H: H314
 P: P260-P280-P303+P361+P353-
 P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
7641.2500	2.5 l	

Volumetric Solution, ready for use.

Soda Lime

1783

'BAKER'

1 l = 0.94 kg
 CAS NO. 8006-28-8
 NC CODE 3822 00 000
 UN/ID NO. 1907
 ADR/RID 8 C6
 IMDG 8/III
 H: H314
 P: P260-P303+P361+P353-
 P305+P351+P338-P310-P405-
 P501a



Danger

Identification passes test
 Loss on Drying at 105°C 12-19%

PRODUCT NO.	PACKING	CONT. BOX
1783.1000	1 kg	6

Sodium 1000 µg/ml

5780

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

► Na

M = 22.99 g/mol
 NC CODE 3822 00 000
 H: H272-H315-H319
 P: P210-P220-P221-P280-
 P305+P351+P338-P362



Danger

Sodium (Na) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5780.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Sodium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6941

▶ Na	Sodium (Na)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 22.99 g/mol			6941.0100	100 ml	
NC CODE 3822 00 000					
H: H315-H319					
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362					
					
Warning					

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Sodium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6822

▶ Na	Sodium (Na)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 22.99 g/mol			6822.0100	100 ml	
NC CODE 3822 00 000					

Sodium Nitrate in Water.

Sodium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5746

▶ Na	Sodium (Na)	9980-10020 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 22.99 g/mol			5746.0100	100 ml	
NC CODE 3822 00 000					
H: H272-H315-H319					
P: P210-P220-P221-P280-P305+P351+P338-P362					
 					
Danger					

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Sodium Acetate Anhydrous

'BAKER ANALYZED' / ACS

0258

▶ CH ₃ COONa	Meets ACS Specifications		PRODUCT NO.	PACKING	CONT. BOX
M = 82.03 g/mol	Assay	min. 99.0%	0258.0250	250 g	6
CAS NO. 127-09-3	Calcium (Ca)	max. 0.005%	0258.1000	1 kg	6
EINECS 204-823-8	Chloride (Cl)	max. 0.002%			
NC CODE 2915 22 000	Heavy Metals (as Pb)	max. 0.001%			
	Insoluble Matter	max. 0.01%			
	Iron (Fe)	max. 0.001%			
	Loss on Drying at 120°C	max. 1.0%			
	Magnesium (Mg)	max. 0.002%			
	pH of 5% Solution at 25°C	7.0-9.2			
	Phosphate (PO ₄)	max. 0.001%			
	Sulfate (SO ₄)	max. 0.003%			

Sodium Acetate Anhydrous

'BAKER'

0259

▶ CH ₃ COONa	Assay (by Perchloric Acid titrn.)	min. 99%	PRODUCT NO.	PACKING	CONT. BOX
M = 82.03 g/mol	Chloride (Cl)	max. 0.2%	0259.1000	1 kg	
CAS NO. 127-09-3	Heavy Metals (as Pb)	max. 0.001%	0259.9025	25 kg	
EINECS 204-823-8	Insoluble Matter	max. 0.01%			
NC CODE 2915 22 000	Iron (Fe)	max. 0.002%			
	Loss on Drying at 120°C	max. 1%			
	pH of 5% Solution at 25°C	7.0-9.2			

Sodium Acetate Trihydrate

4009

crystal / 'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology applications

▶ CH₃COONa·3H₂O

M = 136.08 g/mol

CAS NO. 6131-90-4

EINECS 204-823-8

NC CODE 2915 22 000

Assay	99.0-101.0%
Calcium, Magnesium and R ₂ O ₃ Precipitate	max. 0.01%
Chloride (Cl)	max. 0.001%
DNase Activity	none detected
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	7.5-9.2
Potassium (K)	max. 0.005%
Protease Activity	none detected
RNase Activity	none detected
Substances Reducing KMnO ₄	passes test
Sulfate (SO ₄)	max. 0.002%
Absorbance of a 1M Solution:	
at 254 nm	max. 0.02
at 280 nm	max. 0.01
at 350 nm	max. 0.01
Trace Impurities (in ppm):	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4009.1000	1 kg	
4009.5000	5 kg	

Sodium Acetate Trihydrate

0393

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

▶ CH₃COONa·3H₂O

M = 136.08 g/mol

CAS NO. 6131-90-4

EINECS 204-823-8

NC CODE 2915 22 000

Assay (by non-aqueous titrn.)	99.0-101.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.002%
pH of 5% Solution at 25°C	7.5-9.2
Potassium (K) (by FES)	max. 0.005%
Substances Reducing KMnO ₄	passes test
Sulfate (SO ₄)	max. 0.002%
Trace Impurities (in ppm):	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate (PO ₄)	max. 5
Ultraviolet Absorbance (1.00-cm path vs water):	
at 254 nm	max. 0.02
at 280 nm	max. 0.01
at 350 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0393.1000	1 kg	

Sodium Acetate Trihydrate

0256

'BAKER ANALYZED' / ACS

▶ CH₃COONa·3H₂O

M = 136.08 g/mol

CAS NO. 6131-90-4

EINECS 204-823-8

NC CODE 2915 22 000

Meets ACS Specifications

Assay	99.0-101.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.002%
pH of 5% Solution at 25°C	7.5-9.2
Potassium (K)	max. 0.005%
Substances Reducing KMnO ₄	passes test
Sulfate (SO ₄)	max. 0.002%
Trace Impurities (in ppm):	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0256.0500	500 g	6
0256.1000	1 kg	6
0256.5000	5 kg	4

Sodium Acetate Trihydrate

0517

'BAKER'

▶ CH₃COONa·3H₂O

M = 136.08 g/mol

CAS NO. 6131-90-4

EINECS 204-823-8

NC CODE 2915 22 000

Assay (by Perchloric Acid titrn.) min. 98%

PRODUCT NO.	PACKING	CONT. BOX
0517.1000	1 kg	
0517.9025	25 kg	

Sodium Azide

'BAKER'

9099

▶ NaN_3

M = 65.01 g/mol

CAS NO. 26628-22-8

EINECS 247-852-1

NC CODE 2850 00 500

EC INDEX NO. 11 004 00 7

UN/ID NO. 1687

ADR/RID 6.1 T5

IMDG 6.1/II

H: EUH032-H300-H400-H410

P: P264-P270-P273-P301+P310-P405-P501a



Danger

Assay	min. 99%
Alkalinity	max. 0.1%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.05%
Loss on Drying	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
9099.0100	100 g	6
9099.1000	1 kg	

Sodium Benzoate

'BAKER'

2021

▶ $\text{C}_6\text{H}_5\text{COONa}$

M = 144.11 g/mol

CAS NO. 532-32-1

EINECS 208-534-8

NC CODE 2916 31 000

Assay (dried substance)	99.0-100.5%
Alkalinity	passes test
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Loss on Drying	max. 2.0%
Organic Volatile Impurities	passes test

PRODUCT NO.	PACKING	CONT. BOX
2021.1000	1 kg	
2021.9025	25 kg	

Sodium Bicarbonate

See Sodium Hydrogen Carbonate

Sodium Bisulfite

See Sodium Hydrogen Sulfite

Sodium Borate

See Disodium Tetraborate Decahydrate

Sodium Borohydride

'BAKER ANALYZED' / For Cold Vapour Analysis

9161

▶ NaBH_4

M = 37.83 g/mol

CAS NO. 16940-66-2

EINECS 241-004-4

NC CODE 2850 00 200

UN/ID NO. 1426

ADR/RID 4.3 W2

IMDG 4.3/I

H: H260-H301-H314

P: P301+P310-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Assay	min. 97%
Chloride (Cl)	max. 0.5%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Sulfate (SO_4)	max. 0.005%
Trace Impurities (in ppm):	
Antimony (Sb)	max. 0.2
Arsenic (As)	max. 0.2
Bismuth (Bi)	max. 0.2
Mercury (Hg)	max. 0.001
Selenium (Se)	max. 0.2

PRODUCT NO.	PACKING	CONT. BOX
9161.0100	100 g	6



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Sodium Borohydride

9098

'BAKER'

▶ NaBH₄

M = 37.83 g/mol

CAS NO. 16940-66-2

EINECS 241-004-4

NC CODE 2850 00 200

UN/ID NO. 1426

ADR/RID 4.3 V2

IMDG 4.3/I

H: H260-H301-H314

P: P301+P310-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay

min. 97%

PRODUCT

PACKING

CONT.

NO.

BOX

9098.0100

100 g

6

Sodium Bromide

3588-01

crystal / 'BAKER ANALYZED' / ACS

▶ NaBr

M = 102.89 g/mol

CAS NO. 7647-15-6

EINECS 231-599-9

NC CODE 2827 51 000

Meets ACS Specifications

Assay

min. 99.0%

Alkalinity (as Na₂CO₃)

max. 0.015%

Barium (Ba)

max. 0.002%

Bromate (BrO₃)

max. 0.001%

Calcium (Ca)

max. 0.002%

Chloride (Cl)

max. 0.2%

Insoluble Matter

max. 0.005%

Magnesium (Mg)

max. 0.001%

pH of 5% Solution at 25°C

5.0-8.8

Potassium (K)

max. 0.1%

Sulfate (SO₄)

max. 0.002%

Trace Impurities (in ppm):

Heavy Metals (as Pb)

max. 5

Iron (Fe)

max. 5

PRODUCT

PACKING

CONT.

NO.

BOX

3588-01

500 ml HDPE

4

Sodium Carbonate Anhydrous

4923

ULTREX Ultrapure Reagent

▶ Na₂CO₃

M = 105.99 g/mol

CAS NO. 497-19-8

EINECS 207-838-8

NC CODE 2836 20 000

EC INDEX NO. 11 005 00 2

H: H319

P: P264-P280-P305+P351+P338-
P337+P313

Warning

Actual Analysis Lot. No. J19611

Assay (dried basis)

100.0%

Ammonium Hydroxide Precipitate

0.0002%

Loss on Drying at 285°C

0.004%

Particulate Matter

0.0008%

Metallic Impurities in parts per million (µg/g):

Aluminium (Al)

0.6

Barium (Ba)

0.3

Bismuth (Bi)

< 2.2

Cadmium (Cd)

< 0.1

Calcium (Ca)

< 0.1

Chromium (Cr)

0.1

Cobalt (Co)

< 0.2

Copper (Cu)

0.1

Iron (Fe)

0.1

Lead (Pb)

< 0.2

Lithium (Li)

0.2

Magnesium (Mg)

0.3

Manganese (Mn)

< 0.1

Mercury (Hg)

< 0.3

Molybdenum (Mo)

< 0.1

Nickel (Ni)

< 0.2

Niobium (Nb)

< 0.1

Potassium (K)

1.1

Silver (Ag)

< 0.3

Strontium (Sr)

< 0.2

Tin (Sn)

< 0.1

Titanium (Ti)

< 0.1

Vanadium (V)

< 0.1

Zinc (Zn)

< 0.2

Zirconium (Zr)

< 0.2

Non-Metallic Impurities in parts per million (µg/g):

Arsenic (As)

< 0.8

Halide (as Cl)

< 1

Nitrogen Compounds (as N)

< 0.02

Phosphate (PO₄)

< 0.5

Silicon (Si)

< 0.1

Sulfur Compounds (as SO₄)

< 1

PRODUCT

PACKING

CONT.

NO.

BOX

4923.0025

25 g Glass

4923.0100

100 g Glass

Sodium Carbonate Anhydrous

'BAKER ANALYZED' / Primary Standard / ACS

1400

▶ Na₂CO₃

M = 105.99 g/mol

CAS NO. 497-19-8

EINECS 207-838-8

NC CODE 2836 20 000

EC INDEX NO. 11 005 00 2

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

Meets ACS Specifications

Assay (after 2 hr at 285°C)	99.95-100.05%
Calcium (Ca)	max. 0.02%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.0005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.0005%
Loss on Heating at 285°C	max. 1.0%
Magnesium (Mg)	max. 0.004%
Phosphate (as PO ₄)	max. 0.001%
Potassium (K)	max. 0.005%
Silica (SiO ₂)	max. 0.005%
Solubility (8 in 50)	passes test
Sulfur Compounds (as SO ₄)	max. 0.003%

Product Information (not specifications):

Appearance white granules

PRODUCT NO.	PACKING	CONT. BOX
1400.0250	250 g	

Sodium Carbonate Anhydrous

'BAKER ANALYZED' / ACS

0274

▶ Na₂CO₃

M = 105.99 g/mol

CAS NO. 497-19-8

EINECS 207-838-8

NC CODE 2836 20 000

EC INDEX NO. 11 005 00 2

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay (dried basis) (by acidimetry)	min. 99.5%
Calcium (Ca)	max. 0.03%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.01%
Loss on Heating at 285°C	max. 1.0%
Magnesium (Mg)	max. 0.005%
Phosphate (PO ₄)	max. 0.001%
Potassium (K)	max. 0.005%
Silica (SiO ₂)	max. 0.005%
Sulfur Compounds (as SO ₄)	max. 0.003%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0274.0500	500 g	6
0274.1000	1 kg	6
0274.5000	5 kg	

Sodium Carbonate Anhydrous

'BAKER'

2024

▶ Na₂CO₃

M = 105.99 g/mol

CAS NO. 497-19-8

EINECS 207-838-8

NC CODE 2836 20 000

EC INDEX NO. 11 005 00 2

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

Assay	99.5-100.5%
Alkali Hydroxides and Bicarbonates	passes test
Appearance of solution	passes test
Arsenic (As)	max. 5 ppm
Chloride (Cl)	max. 125 ppm
Heavy Metals (as Pb)	max. 50 ppm
Identification	passes test
Iron (Fe)	max. 50 ppm
Loss on Drying	max. 1.0%
Sulfate (SO ₄)	max. 250 ppm

PRODUCT NO.	PACKING	CONT. BOX
2024.1000	1 kg	6
2024.5000	5 kg	4

Stored in an airtight container.

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Sodium Carbonate Anhydrous

1994

'BAKER'

▶ Na₂CO₃ Assay

min. 99.5%

M = 105.99 g/mol

CAS NO. 497-19-8

EINECS 207-838-8

NC CODE 2836 20 000

EC INDEX NO. 11 005 00 2

H: H319

P: P264-P280-P305+P351+P338-
P337+P313

Warning

PRODUCT NO.	PACKING	CONT. BOX
1994.9050	50 kg	

Sodium Carbonate

7138

0.5 mol/l / 'BAKER ANALYZED'

EINECS 207-838-8

NC CODE 2836 20 000

H: EUH210

Titer (mol/l)

0.4975-0.5025

PRODUCT NO.	PACKING	CONT. BOX
7138.1000	1 l	
7138.9010	10 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Sodium Carbonate

7139

0.05 mol/l / 'BAKER ANALYZED'

EINECS 207-838-8

NC CODE 2836 20 000

Titer (mol/l)

0.0495 - 0.0505

PRODUCT NO.	PACKING	CONT. BOX
7139.1000	1 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Sodium Carbonate

4683

0.05 mol/l / 0.1N / DILUT-IT

EINECS 207-838-8

NC CODE 2836 20 000

H: EUH210-H319

P: P264-P280-P305+P351+P338-
P337+P313

Warning

PRODUCT NO.	PACKING	CONT. BOX
4683	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

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Sodium Chloride

ULTREX Ultrapure Reagent

4924

▶ NaCl

M = 58.44 g/mol
CAS NO. 7647-14-5
EINECS 231-598-3
NC CODE 2501 00 990

Actual Lot Analysis Lot No. J29588

Assay (dried basis)	99.9%
Loss on drying at 650°C	20.7%
Particulate Matter	0.003%

Metallic Impurities in parts per million (µg/g):

Aluminium (Al)	< 0.2
Barium (Ba)	0.6
Bismuth (Bi)	< 2.2
Cadmium (Cd)	< 0.1
Calcium (Ca)	1.0
Chromium (Cr)	< 0.2
Cobalt (Co)	< 0.2
Copper (Cu)	< 0.1
Iron (Fe)	0.2
Lead (Pb)	< 0.2
Lithium (Li)	0.9
Magnesium (Mg)	< 0.1
Manganese (Mn)	< 0.1
Mercury (Hg)	< 0.3
Molybdenum (Mo)	< 0.1
Nickel (Ni)	< 0.2

Potassium (K)	1.3
Silver (Ag)	< 0.3
Strontium (Sr)	< 0.2
Tin (Sn)	< 0.2
Titanium (Ti)	< 0.2
Vanadium (V)	0.1
Zinc (Zn)	< 0.2
Zirconium (Zr)	< 0.2

Non-Metallic Impurities in parts per million (µg/g):

Arsenic (As)	< 0.8
Bromide (Br)	< 1
Iodide (I)	< 5
Nitrogen Compounds (as N)	< 4
Phosphate (PO ₄)	< 6
Sulfur Compounds (as SO ₄)	< 10

PRODUCT NO.	PACKING	CONT. BOX
4924.0100	100 g Glass	

For Laboratory, Research or Manufacturing Use.

Sodium Chloride

crystal / 'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology applications

4058

▶ NaCl

M = 58.44 g/mol
CAS NO. 7647-14-5
EINECS 231-598-3
NC CODE 2501 00 990

Assay	min. 99.0%
Barium (Ba)	max. 0.001%
Bromide (Br)	max. 0.01%
Calcium, Magnesium and R ₂ O ₃ Precipitate	max. 0.005%
Chlorate and Nitrate (as NO ₃)	max. 0.003%
DNase Activity	none detected
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.002%
pH of 5% Solution at 25°C	5.5-7.5
Potassium (K)	max. 0.005%
Protease Activity	none detected
RNase Activity	none detected
Sulfate (SO ₄)	max. 0.003%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 2
Iron (Fe)	max. 1
Nitrogen Compounds (as N)	max. 5
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4058.0500	500 g	
4058.2500	2.5 kg	
4058.9012	12 kg	

Sodium Chloride

crystal / 'BAKER ANALYZED' / ACS

0277

▶ NaCl

M = 58.44 g/mol
CAS NO. 7647-14-5
EINECS 231-598-3
NC CODE 2501 00 990

Meets ACS Specifications

Assay	min. 99.0%
Barium (Ba)	passes test
Bromide (Br)	max. 0.01%
Calcium (Ca)	max. 0.002%
Chlorate and Nitrate (as NO ₃)	max. 0.003%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.002%
Magnesium (Mg)	max. 0.001%
pH of 5% Solution at 25°C	5.0-9.0
Potassium (K)	max. 0.005%
Sulfate (SO ₄)	max. 0.004%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0277.0500	500 g	
0277.1000	1 kg	6
0277.5000	5 kg	4
0277.9010	10 kg	
0277.9025PE	25 kg Plastic pail	

Sodium Chloride

0278 crystal / 'BAKER ANALYZED'

▶ NaCl

M = 58.44 g/mol
CAS NO. 7647-14-5
EINECS 231-598-3
NC CODE 2501 00 990

Assay	min. 99.5%
Barium (Ba)	max. 0.002%
Bromide (Br)	max. 0.01%
Calcium (Ca)	max. 0.002%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.005%
Magnesium (Mg)	max. 0.001%
pH of 5% Solution at 25°C	5.0-8.0
Potassium (K)	max. 0.01%
Sulfate (SO ₄)	max. 0.01%

Trace Impurities (in ppm):

Arsenic (As)	max. 3
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 3
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0278.0500	500 g	6
0278.1000	1 kg	6
0278.5000	5 kg	4
0278.9025	25 kg	
0278.9050	50 kg	

Sodium Chloride

7140 0.1 mol/l / 'BAKER ANALYZED'

EINECS 231-598-3
NC CODE 2501 00 910

Titer (mol/l)	0.099-0.101

PRODUCT NO.	PACKING	CONT. BOX
7140.1000	1 l	
7140.9010	10 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Sodium Chloride

4684 0.1 mol/l / DILUT-IT

▶ NaCl

M = 58.44 g/mol
CAS NO. 7647-14-5
EINECS 231-598-3
NC CODE 2501 00 910

PRODUCT NO.	PACKING	CONT. BOX
4684	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Sodium Chlorite

v044-07 Flakes / 'BAKER'

CAS NO. 7758-19-2
UN/ID NO. 1496
ADR/RID 5.1
IMDG 5.1/II
H: H272-H302-H311
P: P210-P220-P221-P361-P405-P501a



Danger

Assay	min. 79%
Appearance	passes test

PRODUCT NO.	PACKING	CONT. BOX
v044-07	500 g Glass	

Sodium Citrate Dihydrate

0280 crystal / 'BAKER ANALYZED'

▶ HOC(COONa)(CH₂COONa)₂·2H₂O
M = 294.10 g/mol
CAS NO. 6132-04-3
EINECS 200-675-3
NC CODE 2918 15 000

Assay	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	7.0-9.0
Sulfate (SO ₄)	max. 0.002%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0280.0500	500 g	6
0280.1000	1 kg	6
0280.5000	5 kg	4

Sodium Citrate Dihydrate

crystal / 'BAKER'

1758

▶ $\text{HOC}(\text{COONa})(\text{CH}_2\text{COONa})_2 \cdot 2\text{H}_2\text{O}$

M = 294.10 g/mol

CAS NO. 6132-04-3

EINECS 200-675-3

NC CODE 2918 15 000

Assay	99.0-100.5%
Acid or alkaline reacting substances	passes test
Appearance of solution	passes test
Chloride (Cl)	max. 0.003%
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Oxalate (C_2O_4)	max. 300 ppm
Substances Darkened by H_2SO_4	passes test
Sulfate (SO_4)	max. 0.005%
Tartrate	passes test
Water (H_2O)	11.0-13.0%

PRODUCT NO.	PACKING	CONT. BOX
1758.1000	1 kg	6
1758.9050	50 kg	

Sodium Cyanide

'BAKER ANALYZED' / ACS

0281

▶ NaCN

M = 49.01 g/mol

CAS NO. 143-33-9

EINECS 205-599-4

NC CODE 2837 11 000

EC INDEX NO. 6 007 00 5

UN/ID NO. 1689

ADR/RID 6.1 T5

IMDG 6.1/I

H: EUH032-H300-H310-H330-H400-H410

P: P260-P301+P310-P310-P361-P405-P501a



Danger

Meets ACS Specifications

Assay (argentometric titrn.)	min. 95.0%
Chloride (Cl)	max. 0.15%
Iron, total (as Fe)	max. 0.005%
Phosphate (PO_4)	max. 0.02%
Sulfate (SO_4)	max. 0.05%
Sulfide (S)	max. 0.005%
Thiocyanate (SCN)	max. 0.02%

Trace Impurities (in ppm):

Lead (Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0281.0100	100 g	

Sodium Dichromate Dihydrate

'BAKER ANALYZED' / ACS

0282

▶ $\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$

M = 298.00 g/mol

CAS NO. 7789-12-0

EINECS 234-190-3

NC CODE 2841 30 000

EC INDEX NO. 24 004 00 7

UN/ID NO. 3288

ADR/RID 6.1 T5

IMDG 6.1/III

H: H272-H301-H312-H314-H317-H330-H334-H340-H350-H360FD-H372-H400-H410

P: P221-P301+P310-P303+P361+P353-P305+P351+P338-P310-P405-P501a



Danger

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay	99.5-100.5%
Aluminium (Al)	max. 0.002%
Calcium (Ca)	max. 0.003%
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.005%
Potassium (K)	max. 0.01%
Sulfate (SO_4)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0282.0500	500 g	

Sodium Dihydrogen Phosphate Monohydrated

crystal / 'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology applications

4011

▶ $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$

M = 137.99 g/mol

CAS NO. 10049-21-5

EINECS 231-449-2

NC CODE 2835 22 000

Assay	99.0-102.0%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter, Calcium and NH_4OH	max. 0.01%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	4.1-4.5
Protease Activity	none detected
RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4011.0500	500 g	
4011.2500	2.5 kg	

Sodium Dihydrogen Phosphate Monohydrated

0303

'BAKER ANALYZED' / ACS

▶ $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$

M = 137.99 g/mol

CAS NO. 10049-21-5

EINECS 231-449-2

NC CODE 2835 22 000

Meets ACS Specifications

Assay	98.0-102.0%
Calcium (Ca)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	4.1-4.5
Potassium (K)	max. 0.01%
Sulfate (SO_4)	max. 0.003%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0303.0500	500 g	6
0303.1000	1 kg	6
0303.9025	25 kg	

Sodium Dihydrogen Phosphate Dihydrate

1768

'BAKER'

▶ $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$

M = 156.01 g/mol

CAS NO. 13472-35-0

EINECS 231-449-2

NC CODE 2835 22 000

Assay min. 98%

Trace Impurities (in ppm):

Arsenic (As)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
1768.1000	1 kg	
1768.9050	50 kg	

Sodium Diphosphate Decahydrate

0309

'BAKER ANALYZED' / ACS

▶ $\text{Na}_4\text{P}_2\text{O}_7 \cdot 10\text{H}_2\text{O}$

M = 446.06 g/mol

CAS NO. 13472-36-1

EINECS 231-767-1

NC CODE 2835 39 000

Meets ACS Specifications

Assay	99.0-103.0%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	9.5-10.5
Sulfate (SO_4)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0309.1000	1 kg	6
0309.9050	50 kg	

Sodium Diphosphate Decahydrate

1766

'BAKER'

▶ $\text{Na}_4\text{P}_2\text{O}_7 \cdot 10\text{H}_2\text{O}$

M = 446.06 g/mol

CAS NO. 13472-36-1

EINECS 231-767-1

NC CODE 2835 39 000

Assay min. 99%

Heavy Metals (as Pb) max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
1766.1000	1 kg	

Sodium Disulfite

0267

'BAKER ANALYZED' / ACS

▶ $\text{Na}_2\text{S}_2\text{O}_5$

M = 190.10 g/mol

CAS NO. 7681-57-4

EINECS 231-673-0

NC CODE 2832 10 000

EC INDEX NO. 16 063 00 2

H: EUH031-H302-H318

P: P264-P280-P301+P312-

P305+P351+P338-P310-P501a

Exceeds ACS Specifications

Assay	min. 97.0%
Assay (SO_2)	min. 58.5%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Thiosulfate (S_2O_3)	max. 0.05%

Trace Impurities (in ppm):

Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0267.0500	500 g	6
0267.1000	1 kg	6

Contains Sodium Disulfite and Sodium meta-Bisulfite.



Danger

Sodium Disulfite

'BAKER'

1767

▶ $\text{Na}_2\text{S}_2\text{O}_5$	Assay	min. 97%	PRODUCT NO.	PACKING	CONT. BOX
M = 190.10 g/mol			1767.1000	1 kg	
CAS NO. 7681-57-4					
EINECS 231-673-0					
NC CODE 2832 10 000					
EC INDEX NO. 16 063 00 2					
H: EUH031-H302-H318					
P: P264-P280-P301+P312-P305+P351+P338-P310-P501a					
 					
Danger					

Sodium Dodecyl Sulfate

'BAKER ULTRAPURE BIOREAGENT' / For Electrophoresis and Protein Solubilization

4095

▶ $\text{CH}_3(\text{CH}_2)_{11}\text{OSO}_3\text{Na}$	Assay (as $\text{C}_{12}\text{H}_{25}\text{OSO}_3\text{Na}$)	min. 99%	PRODUCT NO.	PACKING	CONT. BOX
M = 288.38 g/mol	Absorbance of a 3% (w/v) Aqueous Solution at 280 nm (1-cm path)	max. 0.1	4095.0025	25 g Glass	
CAS NO. 151-21-3	Appearance	passes test	4095.0100	100 g	
EINECS 205-788-1	Chloride (Cl)	max. 0.03%	4095.1000	1 kg	
NC CODE 3402 19 000	DNase Activity	none detected	4095.2000	2 kg	
UN/ID NO. 1325	pH of 1% Solution at 25°C	5.0-8.0			
ADR/RID 4.1 F1	RNase Activity	none detected			
IMDG 4.1/III	Trace Impurities (in ppm):				
H: H228-H302-H312-H315-H319-H335	Heavy Metals (as Pb)	max. 2			
P: P210-P241-P261-P305+P351+P338-P405-P501a	Iron (Fe)	max. 1			
	Nitrogen (N)	max. 5			
	Phosphate (PO_4)	max. 1			
 					
Warning					

Sodium Dodecyl Sulfate

'BAKER'

2811

▶ $\text{CH}_3(\text{CH}_2)_{11}\text{OSO}_3\text{Na}$	Assay	min. 95%	PRODUCT NO.	PACKING	CONT. BOX
M = 288.38 g/mol			2811.1000	1 kg	6
CAS NO. 151-21-3					
EINECS 205-788-1					
NC CODE 3402 19 000					
UN/ID NO. 1325					
ADR/RID 4.1 F1					
IMDG 4.1/III					
H: H228-H302-H312-H315-H319-H335					
P: P210-P241-P261-P305+P351+P338-P405-P501a					
 					
Warning					

Sodium Ethylenediaminetetraacetate

See EDTA, Disodium Salt



Sodium Fluoride

0285 'BAKER ANALYZED' / ACS

▶ NaF

M = 41.99 g/mol

CAS NO. 7681-49-4

EINECS 231-667-8

NC CODE 2826 11 000

EC INDEX NO. 9 004 00 7

UN/ID NO. 1690

ADR/RID 6.1 T5

IMDG 6.1/III

H: EUH032-H301-H315-H319

P: P280-P301+P310-

P305+P351+P338-P362-P405-

P501a



Danger

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay	min. 99.0%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.02%
Iron (Fe)	max. 0.003%
Loss on Drying at 150°C	max. 0.2%
Potassium (K)	max. 0.02%
Sodium Fluosilicate (Na ₂ SiF ₆)	max. 0.1%
Sulfate (SO ₄)	max. 0.02%
Sulfite (SO ₃)	max. 0.005%
Titration Acid (meq/g)	max. 0.03
Titration Base (meq/g)	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX

0285.0500 500 g

2016

Sodium Fluoride

'BAKER'

▶ NaF

M = 41.99 g/mol

CAS NO. 7681-49-4

EINECS 231-667-8

NC CODE 2826 11 000

EC INDEX NO. 9 004 00 7

UN/ID NO. 1690

ADR/RID 6.1 T5

IMDG 6.1/III

H: EUH032-H301-H315-H319

P: P280-P301+P310-

P305+P351+P338-P362-P405-

P501a



Danger

Assay	98.5-100.5%
Acidity or Alkalinity	passes test
Appearance of solution	passes test
Chloride (Cl)	max. 200 ppm
Fluosilicate	passes test
Identification	passes test
Loss on Drying at 150°C	max. 0.5%
Sulfate (SO ₄)	max. 200 ppm

PRODUCT NO.	PACKING	CONT. BOX

2016.1000 1 kg

Sodium Formate

0287 'BAKER ANALYZED' / ACS

▶ HCOONa

M = 68.01 g/mol

CAS NO. 141-53-7

EINECS 205-488-0

NC CODE 2915 12 000

H: H319

P: P264-P280-P305+P351+P338-

P337+P313



Warning

Exceeds ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.001%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	6.5-8.5
Sulfate (SO ₄)	max. 0.001%
Trace Impurities (in ppm):	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

0287.0500 500 g

Sodium Hexametaphosphate

0908 'BAKER'

▶ (NaPO₃)₆

M = 611.77 g/mol

CAS NO. 10124-56-8

EINECS 233-343-1

NC CODE 2835 39 000

P₂O₅ Content 68.0-71.0%

PRODUCT NO.	PACKING	CONT. BOX

0908.3000 3 kg

Sodium Hydrogen Carbonate

Powder / 'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

0394

▶ NaHCO ₃	Assay (acidimetric)	99.7-100.3%
M = 84.01 g/mol	Calcium, Magnesium and R ₂ O ₃ Precipitate	max. 0.02%
CAS NO. 144-55-8	Chloride (Cl)	max. 0.003%
EINECS 205-633-8	Insoluble Matter	max. 0.015%
NC CODE 2836 30 000	Iron (Fe)	max. 0.001%
	Phosphate (PO ₄)	max. 0.001%
	Potassium (K)	max. 0.005%
	Sulfur Compounds (as SO ₄)	max. 0.003%
	Trace Impurities (in ppm):	
	Ammonium (NH ₄)	max. 5
	Heavy Metals (as Pb)	max. 5
	Ultraviolet Absorbance, (1M Aqueous Solution; 1.00-cm path vs water):	
	at 254 nm	max. 0.05
	at 280 nm	max. 0.02
	at 350 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0394.2500	2.5 kg	

Sodium Hydrogen Carbonate

Powder / 'BAKER ANALYZED' / ACS

0263

▶ NaHCO ₃	Meets ACS Specifications	
M = 84.01 g/mol	Assay (dried basis)	99.7-100.3%
CAS NO. 144-55-8	Calcium (Ca)	max. 0.02%
EINECS 205-633-8	Chloride (Cl)	max. 0.003%
NC CODE 2836 30 000	Insoluble Matter	max. 0.015%
	Iron (Fe)	max. 0.001%
	Magnesium (Mg)	max. 0.005%
	Phosphate (PO ₄)	max. 0.001%
	Potassium (K)	max. 0.005%
	Sulfur Compounds (as SO ₄)	max. 0.003%
	Trace Impurities (in ppm):	
	Ammonium (NH ₄)	max. 5
	Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0263.0500	500 g	6
0263.1000	1 kg	6
0263.5000	5 kg	

Sodium Hydrogen Carbonate

Powder / 'BAKER'

1780

▶ NaHCO ₃	Assay	99.0-101.0%
M = 84.01 g/mol	Ammonium (NH ₄)	max. 20 ppm
CAS NO. 144-55-8	Appearance of solution	passes test
EINECS 205-633-8	Arsenic (As)	max. 2 ppm
NC CODE 2836 30 000	Calcium (Ca)	max. 100 ppm
	Carbonate (CO ₃)	passes test
	Chloride (Cl)	max. 150 ppm
	Heavy Metals (as Pb)	max. 10 ppm
	Identification	passes test
	Iron (Fe)	max. 20 ppm
	Sulfate (SO ₄)	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
1780.1000	1 kg	6
1780.5000	5 kg	
1780.9050	50 kg	

Sodium Hydrogen Phosphate Anhydrous

Powder / 'BAKER BIO-ANALYZED' / For Liquid Chromatography and Molecular Biology applications

4062-01

▶ Na ₂ HPO ₄	Assay	min. 99.0%
M = 141.96 g/mol	DNase Activity	none detected
CAS NO. 7558-79-4	Heavy Metals (as Pb)	max. 0.001%
EINECS 231-448-7	Insoluble Matter	max. 0.01%
NC CODE 2835 22 000	Iron (Fe)	max. 0.001%
	Loss on Drying at 105°C	max. 0.2%
	pH of 5% Solution at 25°C	8.7 - 9.3
	Protease Activity	none detected
	RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4062-01	500 ml HDPE	
Also available in other pack sizes.		

Sodium Hydrogen Phosphate Anhydrous

0306 'BAKER ANALYZED' / ACS

▶ Na₂HPO₄

M = 141.96 g/mol
CAS NO. 7558-79-4
EINECS 231-448-7
NC CODE 2835 22 000

Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Loss on Drying at 105°C	max. 0.2%
pH of 5% Solution at 25°C	8.7-9.3
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0306.0500	500 g	6
0306.1000	1 kg	6
0306.5000	5 kg	

Sodium Hydrogen Phosphate Dihydrate

0326 'BAKER ANALYZED'

▶ Na₂HPO₄·2H₂O

M = 177.99 g/mol
CAS NO. 10028-24-7
EINECS 231-448-7
NC CODE 2835 22 000

Assay	min. 99%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
pH of 0.1 M Solution at 25°C	9.0-9.5
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0326.1000	1 kg	6
0326.5000	5 kg	
0326.9050	50 kg	

Sodium Hydrogen Phosphate Dodecahydrate

0304 'BAKER ANALYZED'

▶ Na₂HPO₄·12H₂O

M = 358.14 g/mol
CAS NO. 10039-32-4
EINECS 231-448-7
NC CODE 2835 22 000

Assay	98.0-101.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	8.7-9.3
Sulfate (SO ₄)	max. 0.02%
Trace Impurities (in ppm):	
Nitrogen Compounds (as N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0304.1000	1 kg	6
0304.9050	50 kg	

Sodium Hydrogen Phosphate Heptahydrate

0305 crystal / 'BAKER ANALYZED' / ACS

▶ Na₂HPO₄·7H₂O

M = 268.07 g/mol
CAS NO. 7782-85-6
EINECS 231-448-7
NC CODE 2835 22 000

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay	98.0-102.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	8.7-9.3
Sulfate (SO ₄)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0305.0500	500 g	

Sodium Hydrogen Sulfite

0266 granular / 'BAKER ANALYZED' / ACS

CAS NO. 7631-90-5
EINECS 231-548-0
NC CODE 2832 10 000
EC INDEX NO. 16 064 00 8
H: EUH031-H302
P: P264-P270-P301+P312-P330-P501a



Warning

Meets ACS Specifications

Assay (as SO ₂) (by iodometry)	min. 58.5%
Chloride (Cl)	max. 0.02 %
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.002%
Thiosulfate (S ₂ O ₃)	act. value reported

PRODUCT NO.	PACKING	CONT. BOX
0266.0500	500 g	6
0266.1000	1 kg	
0266.9050	50 kg	

This product is usually a mixture of Sodium Bisulfite, NaHSO₃ and Sodium meta-Bisulfite, Na₂S₂O₅.

Sodium Hydroxide

Pellets / 'BAKER ANALYZED' / ACS

0288

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 11 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1823

ADR/RID 8 C6

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay	min. 97.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Ag)	max. 0.001%
Magnesium (Mg)	max. 0.002%
Potassium (K)	max. 0.01%
Sodium Carbonate (Na ₂ CO ₃)	max. 1.0%

Trace Impurities (in ppm):

Iron (Fe)	max. 3
Mercury (Hg)	max. 0.1
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate (PO ₄)	max. 2
Sulfate (SO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0288.1000	1 kg	6
0288.5000	5 kg	4
0288.9025	25 kg	

Sodium Hydroxide

Pellets / 'BAKER ANALYZED' / ACS

0903

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 11 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1823

ADR/RID 8 C6

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Exceeds ACS Specifications. Meets Reagents

Specifications for testing USP/NF monographs

Assay	min. 97.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Ag)	max. 0.001%
Magnesium (Mg)	max. 0.002%
Potassium (K)	max. 0.01%
Sodium Carbonate (Na ₂ CO ₃)	max. 0.5%

Trace Impurities (in ppm):

Iron (Fe)	max. 3
Mercury (Hg)	max. 0.1
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate (PO ₄)	max. 2
Sulfate (SO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0903.0500	500 g	

Low in carbonate.

Sodium Hydroxide

Pellets / 'BAKER ANALYZED'

0402

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 11 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1823

ADR/RID 8 C6

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 98%
Carbonate (as Na ₂ CO ₃)	max. 1%
Potassium (K)	max. 0.05%
Silica (SiO ₂)	max. 0.001%

Trace Impurities (in ppm):

Aluminium (Al)	max. 5
Calcium (Ca)	max. 5
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Nickel (Ni)	max. 5
Phosphate (PO ₄)	max. 5
Sulfate (SO ₄)	max. 5
Total Nitrogen (N)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0402.0500	500 g	6
0402.1000	1 kg	6
0402.5000	5 kg	4

Sodium Hydroxide

0403 Pellets / 'BAKER ANALYZED'

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 11 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1823

ADR/RID 8 C6

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 99.0%
Ammonium Hydroxide Precipitate	max. 0.02%
Chloride (Cl)	max. 5 ppm
Heavy Metals (as Ag)	max. 5 ppm
Heavy Metals (as Pb)	max. 5 ppm
Na ₂ CO ₃	max. 1.0%
Potassium (K)	max. 0.01%

Trace Impurities (in ppm):

Iron (Fe)	max. 3
Mercury (Hg) (by AAS)	max. 0.1
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate (as PO ₄)	max. 10
Sulfate (SO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0403.5000	5 kg	4
0403.9050	50 kg	

Sodium Hydroxide

0404 Pellets / 'BAKER'

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 11 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1823

ADR/RID 8 C6

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 97%
Aluminium (Al)	max. 0.002%
Carbonate (as Na ₂ CO ₃)	max. 1%
Chloride (Cl)	max. 0.01%
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.002%
Sulfate (SO ₄)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0404.1000	1 kg	6

Sodium Hydroxide

0405 pearls / 'BAKER'

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 11 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1823

ADR/RID 8 C6

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	97.0-100.5%
Appearance of solution	passes test
Carbonate (as Na ₂ CO ₃)	max. 2.0%
Chlorides (as Cl)	max. 50 ppm
Heavy Metals (as Pb)	max. 20 ppm
Identification	passes test
Iron (Fe)	max. 10 ppm
Potassium (K)	passes test
Sulfates (as SO ₄)	max. 50 ppm

PRODUCT NO.	PACKING	CONT. BOX
0405.1000	1 kg	6
0405.5000	5 kg	4
0405.9025	25 kg	

Stored in an airtight non-metallic container.

Sodium Hydroxide

50% / 'BAKER ANALYZED'

7067

▶ NaOH

M = 40.00 g/mol

1 l = 1.54 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	49.5-50.5%
Ammonium Hydroxide Precipitate	max. 0.01%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Ag)	max. 0.001%
Potassium (K)	max. 0.01%
Sodium Carbonate (Na ₂ CO ₃)	max. 0.3%
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Iron (Fe)	max. 5
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 5
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7067.1000	1 l	6
7067.2500	2.5 l	4
7067.9025	25 l	

IMPORTANT: Material will freeze if stored below 18°C.

Sodium Hydroxide

40% / 'BAKER'

6165

▶ NaOH

M = 40.00 g/mol

1 l = 1.38 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay	min. 40.0%
Density (g/ml) at 20°C	min. 1.43
Trace Impurities (in ppm):	
Iron (Fe)	max. 5
Nitrogen Compounds (as N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
6165.9010	10 l Polycube	

Sodium Hydroxide

32% / 'BAKER ANALYZED'

7109

▶ NaOH

M = 40.00 g/mol

1 l = 1.35 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Assay (acidimetric)	min. 32%
Chloride (Cl)	max. 0.002%
Silica (SiO ₂)	max. 0.003%
Sodium Carbonate (acidimetric)	max. 1%
Sulfate (SO ₄)	max. 0.001%

Trace Impurities (in ppm):

Aluminium (Al)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate (PO ₄)	max. 5
Total Nitrogen (N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7109.2500	2.5 l	4
7109.5000	5 l HDPE	32
7109.9010	10 l Polycube	
7109.9025	25 l	

for Nitrogen determination

Sodium Hydroxide

6164 20% / 'BAKER ANALYZED'

▶ NaOH

Assay

min. 20%

PRODUCT
NO.

PACKING

CONT.
BOX

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

6164.9010

10 l Polycube

Sodium Hydroxide

7036 2 mol/l / 'BAKER ANALYZED'

▶ NaOH

Titer (mol/l)

1.995-2.005

PRODUCT
NO.

PACKING

CONT.
BOX

M = 40.00 g/mol

1 l = 1.09 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Trace Impurities (in ppm):

Chloride (Cl) max. 5

Heavy Metals (as Pb) max. 1

Iron (Fe) max. 0.5

7036.1000

1 l

6

Volumetric Solution, ready for use.

Each lot of this product is standardized
potentiometrically against NIST traceable reference
standard.

Sodium Hydroxide

7557 1.5 mol/l / 'BAKER ANALYZED'

▶ NaOH

Titer (mol/l)

1.495 - 1.505

PRODUCT
NO.

PACKING

CONT.
BOX

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

7557.9010

10 l

Volumetric Solution, ready for use.

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Sodium Hydroxide

1 mol/l / 'BAKER ANALYZED'

7097

▶ NaOH

M = 40.00 g/mol

1 l = 1.05 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Titer (mol/l) 0.997-1.003

Trace Impurities (in ppm):

Chloride (Cl) max. 5

Heavy Metals (as Pb) max. 1

Iron (Fe) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
7097.1000	1 l	6
7097.9010	10 l Polycube	
7097.9020	20 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Sodium Hydroxide

0.5 mol/l / 'BAKER ANALYZED'

7105

▶ NaOH

M = 40.00 g/mol

1 l = 1.02 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Titer (mol/l) 0.4975-0.5025

Trace Impurities (in ppm):

Chloride (Cl) max. 5

Heavy Metals (as Pb) max. 1

Iron (Fe) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
7105.1000	1 l	
7105.9010	10 l Polycube	
7105.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

Sodium Hydroxide

0.357 mol/l 1/2.8 mol/l / 'BAKER ANALYZED'

7214

▶ NaOH

M = 40.00 g/mol

1 l = 1.02 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Titer (mol/l) 0.355 - 0.359

PRODUCT NO.	PACKING	CONT. BOX
7214.1000	1 l	
7214.9010	10 l Polycube	

Volumetric Solution, ready for use.

Sodium Hydroxide

7201 0.33 mol/l / 'BAKER ANALYZED'

▶ NaOH

M = 40.00 g/mol

1 l = 1.02 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Titer (mol/l)

0.325-0.335

PRODUCT
NO.

PACKING

CONT.
BOX

7201.9010

10 l

Volumetric Solution, ready for use.

Sodium Hydroxide

7112 0.25 mol/l / 'BAKER ANALYZED'

▶ NaOH

M = 40.00 g/mol

1 l = 1.01 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Titer (mol/l)

0.2485-0.2515

Trace Impurities (in ppm):

Chloride (Cl) max. 5

Heavy Metals (as Pb) max. 1

Iron (Fe) max. 0.5

PRODUCT
NO.

PACKING

CONT.
BOX

7112.1000

1 l

7112.9010

10 l Polycube

Volumetric Solution, ready for use.

Each lot of this product is standardized
potentiometrically against NIST traceable reference
standard.

Sodium Hydroxide

7216 0.2 mol/l / 'BAKER ANALYZED'

1 l = 1.01 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Titer (mol/l)

0.199-0.201

PRODUCT
NO.

PACKING

CONT.
BOX

7216.1000

1 l

7216.9020

20 l Polycube

Volumetric Solution, ready for use.

Each lot of this product is standardized
potentiometrically against NIST traceable reference
standard.A NEW GENERATION
OF DISCOVERY.See the whole story online at www.avantormaterials.comAVANTOR™
PERFORMANCE MATERIALS

Sodium Hydroxide

0.1 mol/l / 'BAKER ANALYZED'

7098

▶ NaOH

M = 40.00 g/mol

1 l = 1.00 kg

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

Titer (mol/l) 0.0997-0.1003

Trace Impurities (in ppm):

Chloride (Cl) max. 5

Heavy Metals (as Pb) max. 1

Iron (Fe) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
7098.1000	1 l	6
7098.5000	5 l Jerrycan	
7098.9010	10 l Polycube	
7098.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Sodium Hydroxide

0.05 mol/l / 'BAKER ANALYZED'

7480

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/III

Titer (mol/l) 0.0495-0.0505

PRODUCT NO.	PACKING	CONT. BOX
7480.1000	1 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Sodium Hydroxide

0.02 mol/l / 'BAKER ANALYZED'

7099

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/III

Titer (mol/l) 0.0195-0.0205

PRODUCT NO.	PACKING	CONT. BOX
7099.0500	500 ml	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Hydrogen Phthalate.

Sodium Hydroxide

5 mol/l / DILUT-IT / 5 equiv. = 200.0g; 5N

4690

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
4690	500 ml Sealed Bottle	

Volumetric Concentrate, for dilution to 1 l.

4689

Sodium Hydroxide

1 mol/l, 1 equiv. = 40.00g, 1N / DILUT-IT

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4689	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

4691

Sodium Hydroxide

0.5 mol/l / DILUT-IT

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4691	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

4865

Sodium Hydroxide

0.25 mol/l / DILUT-IT

▶ NaOH

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4865	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

4687

Sodium Hydroxide

0.1 mol/l, 1/10 equiv. = 4.000g, 0.1 N / DILUT-IT

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4687	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Sodium Hydroxide

0.02 mol/l / DILUT-IT / $\frac{1}{50}$ equiv. = 0.800g; 0.02N

4715

▶ NaOH

M = 40.00 g/mol

CAS NO. 1310-73-2

EINECS 215-185-5

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
4715	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Sodium Hydroxide

0.01 mol/l / DILUT-IT

4864

▶ NaOH

1 l = 40.00 kg

NC CODE 2815 12 000

UN/ID NO. 1824

ADR/RID 8 C5

IMDG 8/II

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

PRODUCT NO.	PACKING	CONT. BOX
4864	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

Sodium Hydroxide on support

Granular 1.6-3 mm / 'BAKER ANALYZED'

0458

EINECS 215-185-5

NC CODE 3822 00 000

EC INDEX NO. 11 002 00 6

UN/ID NO. 1823

ADR/RID 8 C6

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

CO ₂ absorption capacity	min. 50%
Loss on Ignition	18-25%

PRODUCT NO.	PACKING	CONT. BOX
0458.0500	500 g	6

Sodium Iodide

'BAKER ANALYZED'

0293

▶ NaI

M = 149.89 g/mol

CAS NO. 7681-82-5

EINECS 231-679-3

NC CODE 2827 60 000

Assay (dried basis)	min. 99.0%
Barium (Ba)	max. 0.002%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iodate (IO ₃)	max. 4 ppm
Iron (Fe)	max. 5 ppm
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	7.5-9.5
Phosphate (PO ₄)	max. 0.002%
Sulfate (SO ₄)	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
0293.0500	500 g	
0293.5000	5 kg	

Sodium Iodide

0294

'BAKER'

▶ NaI

M = 149.89 g/mol

CAS NO. 7681-82-5

EINECS 231-679-3

NC CODE 2827 60 000

Assay	99.0-100.5%
Alkalinity	passes test
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Iodate (IO ₃)	passes test
Iron (Fe)	max. 20 ppm
Limit of nitrate, nitrite and ammonia	passes test
Loss on Drying	max. 3.0%
Organic Volatile Impurities	passes test
Potassium (K)	passes test
Sulfate (SO ₄)	max. 150 ppm
Thiosulfate and Barium	passes test
Thiosulfates (as S ₂ O ₃)	passes test
Water (H ₂ O)	max. 2.0%

PRODUCT NO.	PACKING	CONT. BOX
0294.0250	250 g	
0294.0500	500 g	6
0294.1000	1 kg	6

Preserve in tight containers.

Stored protected from light.

Sodium meta-Bisulfite

See Sodium Disulfite

Sodium Metaperiodate

See Sodium Tetroxiodate(VII)

Sodium Metasilicate Pentahydrate

0302

'BAKER ANALYZED'

▶ Na₂SiO₃·5H₂O

M = 212.20 g/mol

CAS NO. 6834-92-0

EINECS 229-912-9

NC CODE 2839 11 000

EC INDEX NO. 14 010 00 8

UN/ID NO. 3253

ADR/RID 8 C6

IMDG 8/III

H: H314-H335

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 93%
Appearance of 3% Solution	clear
Chloride (Cl)	max. 0.05%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.02%
pH of 3% Solution at 25°C	min. 12.3
Sulfate (SO ₄)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0302.0250	250 g	
0302.5000	5 kg	4

Sodium Molybdate Dihydrate

0295

'BAKER ANALYZED' / ACS

▶ Na₂MoO₄·2H₂O

M = 241.95 g/mol

CAS NO. 10102-40-6

EINECS 231-551-7

NC CODE 2841 70 000

Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay	99.5-103.0%
Ammonium (NH ₄)	max. 0.001%
Appearance	passes test
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	7.0-10.5
Sulfate (SO ₄)	max. 0.015%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0295.0250	250 g	
0295.1000	1 kg	

Sodium Nitrate

'BAKER ANALYZED' / ACS

0296

▶ NaNO₃

M = 84.99 g/mol

CAS NO. 7631-99-4

EINECS 231-554-3

NC CODE 3102 50 900

UN/ID NO. 1498

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272

P: P210-P220-P221-P280-
P370+P378a-P501a

Danger

Exceeds ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.002%
Nitrite (NO ₂)	max. 0.001%
pH of 5% Solution at 25°C	5.5-8.3
Sulfate (SO ₄)	max. 0.002%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iodate (IO ₃)	max. 5
Iron (Fe)	max. 2
Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0296.0500	500 g	6
0296.5000	5 kg	

Sodium Nitrate

'BAKER'

2017

▶ NaNO₃

M = 84.99 g/mol

CAS NO. 7631-99-4

EINECS 231-554-3

NC CODE 3102 50 900

UN/ID NO. 1498

ADR/RID 5.1 O2

IMDG 5.1/III

H: H272

P: P210-P220-P221-P280-
P370+P378a-P501a

Danger

Loss on Drying max. 1.0%

PRODUCT NO.	PACKING	CONT. BOX
2017.1000	1 kg	

Sodium Nitrite

'BAKER ANALYZED' / ACS

0297

▶ NaNO₂

M = 69.00 g/mol

CAS NO. 7632-00-0

EINECS 231-555-9

NC CODE 2834 10 000

EC INDEX NO. 7 010 00 4

UN/ID NO. 1500

ADR/RID 5.1 OT2

IMDG 5.1/III

H: H272-H301-H400

P: P210-P220-P221-P301+P310-
P405-P501a

Danger

Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs

Assay	min. 97.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Potassium (K)	max. 0.005%
Sulfate (SO ₄)	max. 0.01%

Trace Impurities (in ppm):

Arsenic (As)	max. 3
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0297.0100	100 g	
0297.1000	1 kg	
0297.9025	25 kg	

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PERFORMANCE MATERIALS

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Sodium Nitrite

0298 'BAKER'

▶ NaNO₂

M = 69.00 g/mol

CAS NO. 7632-00-0

EINECS 231-555-9

NC CODE 2834 10 000

EC INDEX NO. 7 010 00 4

UN/ID NO. 1500

ADR/RID 5.1 OT2

IMDG 5.1/III

H: H272-H301-H400

P: P210-P220-P221-P301+P310-
P405-P501a

Danger

Assay (dried basis)	98.5-100.5%
Acidity or Alkalinity	passes test
Appearance of solution	passes test
Chloride (Cl)	max. 50 ppm
Heavy Metals (as Pb)	max. 20 ppm
Identification	passes test
Loss on Drying	max. 0.25%
Sulfates (as SO ₄)	max. 200 ppm

PRODUCT NO.	PACKING	CONT. BOX
0298.1000	1 kg	
0298.9050	50 kg	

Stored in an airtight container.

Sodium Nitroferricyanide

See Sodium Pentacyanonitrosylferrate(III) Dihydrate

Sodium Oleate

1916 'BAKER'

▶ CH₃(CH₂)₇CH:CH(CH₂)₇COONa

M = 304.45 g/mol

CAS NO. 143-19-1

EINECS 205-591-0

NC CODE 2916 15 000

Iodine number of free acid	85.0-95.0

PRODUCT NO.	PACKING	CONT. BOX
1916.0250	250 g	

Sodium Oxalate

0301 'BAKER ANALYZED' / ACS

▶ NaOCOCOOONa

M = 134.00 g/mol

CAS NO. 62-76-0

EINECS 200-550-3

NC CODE 2917 11 000

EC INDEX NO. 607 007 00 3

UN/ID NO. 3282

ADR/RID 6.1 T3

IMDG 6.1/III

H: H302-H312

P: P264-P280-P301+P312-P312-
P363-P501a

Warning

Exceeds ACS Specifications

Assay	min. 99.8%
Ammonium (NH ₄)	max. 0.002%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 0.01%
Neutrality	passes test
Potassium (K)	max. 0.005%
Substances Darkened by Hot H ₂ SO ₄	passes test
Sulfate (SO ₄)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
0301.0250	250 g	

Sodium Oxalate

2018 'BAKER'

▶ NaOCOCOOONa

M = 134.00 g/mol

CAS NO. 62-76-0

EINECS 200-550-3

NC CODE 2917 11 000

EC INDEX NO. 607 007 00 3

UN/ID NO. 3282

ADR/RID 6.1 T3

IMDG 6.1/III

H: H302-H312

P: P264-P280-P301+P312-P312-
P363-P501a

Warning

Assay	min. 99.0%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.01%
Iron (Fe)	max. 0.005%
Sulfate (SO ₄)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
2018.1000	1 kg	

Sodium Pentacyanonitrosylferrate(III) Dihydrate

'BAKER ANALYZED' / ACS

1190

▶ $\text{Na}_2\text{Fe}(\text{CN})_5\text{NO} \cdot 2\text{H}_2\text{O}$

M = 297.95 g/mol

CAS NO. 13755-38-9

EINECS 238-373-9

NC CODE 2837 20 000

UN/ID NO. 1588

ADR/RID 6.1 T5

IMDG 6.1/II

H: H301

P: P264-P270-P301+P310-P330-

P405-P501a



Danger

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay	99.0-102.0%
Chloride (Cl)	max. 0.02%
Insoluble Matter	max. 0.01%
Sulfate (SO_4)	passes test

PRODUCT NO.	PACKING	CONT. BOX
1190.0100	100 g	

Sodium Perchlorate Monohydrate

'BAKER ANALYZED'

2815

▶ $\text{NaClO}_4 \cdot \text{H}_2\text{O}$

M = 140.46 g/mol

CAS NO. 7791-07-3

EINECS 231-511-9

NC CODE 2829 90 100

EC INDEX NO. 17 010 00 6

UN/ID NO. 1502

ADR/RID 5.1 O2

IMDG 5.1/II

H: H271

P: P210-P221-P283-P306+P360-

P371+P380+P375-P501a



Danger

Assay	min. 99.5%
Assay (NaClO_4)	85.0-90.0%
Barium (Ba)	max. 0.004%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.003%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Potassium (K)	max. 0.01%
Sulfate (SO_4)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
2815.0100	100 g	6
2815.1000	1 kg	6

Sodiummeta-Periodate

See Sodium Tetroxiodate(VII)

Sodium Peroxide

Granular 0.3-2.0 mm / 'BAKER ANALYZED' / ACS

9015

▶ Na_2O_2

M = 77.98 g/mol

CAS NO. 1313-60-6

EINECS 215-209-4

NC CODE 2815 30 000

EC INDEX NO. 11 003 00 1

UN/ID NO. 1504

ADR/RID 5.1 O2

IMDG 5.1/I

H: H271-H314

P: P221-P283-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Meets ACS Specifications

Assay	min. 93.0%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.005%
Sulfate (SO_4)	max. 0.001%

Trace Impurities (in ppm):

Phosphate (PO_4)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9015.0500	500 g	
9015.1000	1 kg	6

Sodium Phosphate, Dibasic, 7-Hydrate

See Sodium Hydrogen Phosphate Heptahydrate

Sodium Phosphate Dodecahydrate

0307 'BAKER ANALYZED' / ACS

▶ $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$

M = 380.12 g/mol

CAS NO. 10101-89-0

EINECS 231-509-8

NC CODE 2835 23 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Meets ACS Specifications

Assay	98.0-102.0%
Chloride (Cl)	max. 0.001%
Excess Alkali (as NaOH)	max. 2.5%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Sulfate (SO_4)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0307.1000	1 kg	6

Sodium Phosphate Dodecahydrate

0308 'BAKER'

▶ $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$

M = 380.12 g/mol

CAS NO. 10101-89-0

EINECS 231-509-8

NC CODE 2835 23 000

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Assay min. 98%

PRODUCT NO.	PACKING	CONT. BOX
0308.1000	1 kg	6
0308.5000	5 kg	
0308.9025BB	25 kg Bag-in-Box	



Sodium Pyrophosphate

See Sodium Diphosphate Decahydrate



Sodium Pyrosulfite

See Sodium Disulfite

2456

Sodium Pyruvate

'BAKER'

▶ $\text{CH}_3\text{COCOONa}$

M = 110.05 g/mol

CAS NO. 113-24-6

EINECS 204-024-4

NC CODE 2918 30 000

Assay (by Perchloric Acid titrn.) min. 98%
Water (H_2O) (by Karl Fischer titrn.) max. 2%

PRODUCT NO.	PACKING	CONT. BOX
2456.0100	100 g	



Sodium Rhodanide

See Sodium Thiocyanate

2028

Sodium Salicylate

'BAKER ANALYZED'

▶ $2\text{-HOC}_6\text{H}_4\text{COONa}$

M = 160.11 g/mol

CAS NO. 54-21-7

EINECS 200-198-0

NC CODE 2918 21 000

H: H302

P: P264-P270-P301+P312-P330-
P501a

Warning

Assay (after drying) min. 99.5%
Chloride (Cl) max. 0.002%
Heavy Metals (as Pb) max. 0.001%
Iron (Fe) max. 0.001%
Sulfate (SO_4) max. 0.02%
Water (H_2O) max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
2028.0250	250 g	6

Sodium Succinate Hexahydrate

'BAKER'

0620

▶ NaOCOCH₂CH₂COONa.6H₂O

M = 270.15 g/mol

CAS NO. 150-90-3

EINECS 205-778-7

NC CODE 2917 19 900

Water (H₂O)

38-42%

PRODUCT
NO.

PACKING

CONT.
BOX

0620.0500

500 g

0620.5000

5 kg

Sodium Sulfate Anhydrous

Granular (12-60 Mesh) / 'BAKER ULTRA RESI-ANALYZED' / Suitable for Use in Pesticide Residue Analysis / ACS

3375

▶ Na₂SO₄

M = 142.04 g/mol

CAS NO. 7757-82-6

EINECS 231-820-9

NC CODE 2833 11 000

Meets ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.001%
Extraction-Concentration Suitability ¹	passes test
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Ignition	max. 0.5%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	5.2-9.2
Phosphate (as PO ₄)	max. 0.001%
Potassium (K)	max. 0.01%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5 ppm
Nitrogen Compounds (as N)	max. 5 ppm

¹ Result obtained on a sample dried at 400°C for one hour (ACS method)

PRODUCT
NO.

PACKING

CONT.
BOX

3375.0500

500 g

3375.1000

1 kg

Tested for Hexane Extractable Impurities.

Sodium Sulfate Anhydrous

'BAKER ANALYZED' / ACS

0312

▶ Na₂SO₄

M = 142.04 g/mol

CAS NO. 7757-82-6

EINECS 231-820-9

NC CODE 2833 11 000

Meets ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Ignition	max. 0.5%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	5.2-9.2
Phosphate (as PO ₄)	max. 0.001%
Potassium (K)	max. 0.01%

Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Nitrogen Compounds (as N)	max. 5

PRODUCT
NO.

PACKING

CONT.
BOX

0312.0100

100 g

0312.1000

1 kg

0312.9050

50 kg

6

Sodium Sulfate Anhydrous

'BAKER ANALYZED'

0313

▶ Na₂SO₄

M = 142.04 g/mol

CAS NO. 7757-82-6

EINECS 231-820-9

NC CODE 2833 11 000

Assay	min. 99.0%
Calcium, Magnesium and R ₂ O ₃ Precipitate	max. 0.01%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.01%
Loss on Ignition	max. 0.5%
pH of 5% Solution at 25°C	5.2-9.2
Potassium (K) (by AAS)	max. 0.01%

Trace Impurities (in ppm):

Arsenic (As)	max. 0.5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Nitrogen Compounds (as N)	max. 5

PRODUCT
NO.

PACKING

CONT.
BOX

0313.0500

500 g

0313.1000

1 kg

0313.5000

5 kg

0313.9025

25 kg

6

4

Sodium Sulfate Anhydrous

3377-00 12-60 mesh / 'BAKER ANALYZED' / For Hydrocarbon Oil Index determination

▶ Na ₂ SO ₄	Assay	min. 99.0%	PRODUCT	PACKING	CONT.
M = 142.04 g/mol	Insoluble Matter	max. 0.01%	NO.		BOX
CAS NO. 7757-82-6	Loss on Ignition	max. 0.5%	3377-00	100 g	
EINECS 231-820-9					
NC CODE 2833 11 000					

Suitable for determination of Hydrocarbon Oil Index according to ISO 9377-2 and NEN 5733.

After opening: Store in desiccator.

Sodium Sulfate Decahydrate

0311 'BAKER ANALYZED'

▶ Na ₂ SO ₄ ·10H ₂ O	Assay	min. 98.0%	PRODUCT	PACKING	CONT.
M = 322.19 g/mol	Calcium and Magnesium (as Ca)	max. 0.005%	NO.		BOX
CAS NO. 7727-73-3	Chloride (Cl)	max. 0.001%	0311.1000	1 kg	
EINECS 231-820-9	Insoluble Matter	max. 0.005%			
NC CODE 2833 11 000	pH of 5% Solution at 25°C	4.5-6.5			
	Trace Impurities (in ppm):				
	Arsenic (As)	max. 0.5			
	Heavy Metals (as Pb)	max. 5			
	Iron (Fe)	max. 5			
	Nitrogen Compounds (as N)	max. 5			

Sodium Sulfate Decahydrate

1774 'BAKER'

▶ Na ₂ SO ₄ ·10H ₂ O	Assay (dried basis)	98.5-101.0%	PRODUCT	PACKING	CONT.
M = 322.19 g/mol	Acidity or Alkalinity	passes test	NO.		BOX
CAS NO. 7727-73-3	Appearance of solution	passes test	1774.5000	5 kg	
EINECS 231-820-9	Chloride (Cl)	max. 200 ppm			
NC CODE 2833 11 000	Heavy Metals (as Pb)	max. 20 ppm			
	Identification	passe test			
	Loss on Drying	52.0-57.0%			

Sodium Sulfite Anhydrous

0316 'BAKER ANALYZED' / ACS

▶ Na ₂ SO ₃	Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs		PRODUCT	PACKING	CONT.
M = 126.04 g/mol	Assay (by iodometry)	min. 98.0%	NO.		BOX
CAS NO. 7757-83-7	Chloride (Cl)	max. 0.02%	0316.0250	250 g	
EINECS 231-821-4	Free Acid	passes test	0316.1000	1 kg	6
NC CODE 2832 10 000	Heavy Metals (as Pb)	max. 0.001%	0316.9012PE	12 kg PE Pail	
	Insoluble Matter	max. 0.005%			
	Iron (Fe)	max. 0.001%			
	Titrate Free Base (meq/g)	max. 0.03			

Sodium Sulfite Anhydrous

1777 'BAKER'

▶ Na ₂ SO ₃	Assay	min. 95%	PRODUCT	PACKING	CONT.
M = 126.04 g/mol	Chloride (Cl)	max. 0.02%	NO.		BOX
CAS NO. 7757-83-7	Heavy Metals (as Pb)	max. 0.005%	1777.1000	1 kg	6
EINECS 231-821-4	Iron (Fe)	max. 0.002%			
NC CODE 2832 10 000	Trace Impurities (in ppm):				
	Arsenic (As)	max. 2			

Sodium Tartrate Dihydrate

'BAKER ANALYZED' / ACS

0317

▶ $\text{NaOCO(CHOH)}_2\text{COONa}\cdot 2\text{H}_2\text{O}$

M = 230.08 g/mol

CAS NO. 6106-24-7

EINECS 212-773-3

NC CODE 2918 13 000

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay	99.0-101.0%
Ammonium (NH_4)	max. 0.002%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 5 ppm
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 150°C	15.61-15.71%
pH of 5% Solution at 25°C	7.0-9.0
Phosphate (PO_4)	max. 5 ppm
Sulfate (SO_4)	max. 0.005%

PRODUCT

NO.

PACKING

CONT.

BOX

0317.0250

250 g

0317.1000

1 kg

This reagent is suitable for standardization of Karl Fischer Reagent as used for the determination of water

Sodium Tartrate Dihydrate

crystal / 'BAKER ANALYZED' / Suitable for Standardization of Karl Fischer Reagents

3930-01

▶ $\text{NaOCO(CHOH)}_2\text{COONa}\cdot 2\text{H}_2\text{O}$

M = 230.08 g/mol

CAS NO. 6106-24-7

EINECS 212-773-3

NC CODE 2918 13 000

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay	99.0-101.0%
Ammonium (NH_4)	max. 0.003%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 5 ppm
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 150°C	15.61-15.71%
pH of 5% Solution at 25°C	7.0-9.0
Phosphate (PO_4)	max. 5 ppm
Sulfate (SO_4)	max. 0.005%

PRODUCT

NO.

PACKING

CONT.

BOX

3930-01

500 g HDPE

4

Sodium Tetraborate

See Disodium Tetraborate Decahydrate

Sodium Tetrahydroborate

See Sodium Borohydride

Sodium Tetraphenylborate

'BAKER ANALYZED' / ACS

1194

▶ $\text{NaB(C}_6\text{H}_5)_4$

M = 342.23 g/mol

CAS NO. 143-66-8

EINECS 205-605-5

NC CODE 2931 00 950

H: H301

P: P264-P270-P301+P310-P330-

P405-P501a



Danger

Meets ACS Specifications

Assay	min. 99.5%
Clarity of Solution	passes test
Loss on Drying at 105°C	max. 0.5%

PRODUCT

NO.

PACKING

CONT.

BOX

1194.0025

25 g Glass

1194.0100

100 g

Sodium Tetraphenylboron

See Sodium Tetraphenylborate

Sodium Tetroxiodate(VII)

1192 'BAKER ANALYZED'

▶ NaIO₄

M = 213.89 g/mol

CAS NO. 7790-28-5

EINECS 232-197-6

NC CODE 2829 90 800

UN/ID NO. 1479

ADR/RID 5.1 O2

IMDG 5.1/I

H: H272

P: P210-P220-P221-P280-
P370+P378a-P501a

Danger

Assay	min. 99.8%
Other Halogens (as Cl)	max. 0.01%
Sulfate (SO ₄)	max. 0.005%
Trace Impurities (in ppm):	
Manganese (Mn)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
1192.0100	100 g	

Sodium Thiocyanate

0318 'BAKER ANALYZED' / ACS

▶ NaSCN

M = 81.07 g/mol

CAS NO. 540-72-7

EINECS 208-754-4

NC CODE 2838 00 000

EC INDEX NO. 615 004 00 3

H: EUH032-H302-H312-H332

P: P261-P280-P301+P312-
P304+P340-P312-P501a

Warning

Exceeds ACS Specifications

Assay	min. 98.0%
Ammonium (NH ₄)	max. 0.002%
Carbonate (as Na ₂ CO ₃)	max. 0.2%
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Sulfate (SO ₄)	max. 0.01%
Sulfide (S)	max. 0.001%
Trace Impurities (in ppm):	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0318.0500	500 g	

Sodium Thiosulfate Anhydrous

0320 'BAKER ANALYZED'

▶ Na₂S₂O₃

M = 158.11 g/mol

CAS NO. 7772-98-7

EINECS 231-867-5

NC CODE 2832 30 000

Assay (by Iodometry)	min. 98.0%
Calcium (Ca)	max. 0.01%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Trace Impurities (in ppm):	
Sulfide (S)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0320.0500	500 g	6

Sodium Thiosulfate Pentahydrate

0319 'BAKER ANALYZED' / ACS

▶ Na₂S₂O₃·5H₂O

M = 248.18 g/mol

CAS NO. 10102-17-7

EINECS 231-867-5

NC CODE 2832 30 000

Meets ACS Specifications

Assay	99.5-101.0%
Insoluble Matter	max. 0.005%
Nitrogen Compounds (as N)	max. 0.002%
pH of 5% Solution at 25°C	6.0-8.4
Sulfate and Sulfite (as SO ₄)	max. 0.1%
Sulfide (S)	max. 1 ppm

PRODUCT NO.	PACKING	CONT. BOX
0319.0500	500 g	6
0319.1000	1 kg	6
0319.9050	50 kg	

Sodium Thiosulfate Pentahydrate

1779 'BAKER'

▶ Na₂S₂O₃·5H₂O

M = 248.18 g/mol

CAS NO. 10102-17-7

EINECS 231-867-5

NC CODE 2832 30 000

Assay	99.0-101.0%
Appearance of solution	passes test
Calcium (Ca)	passes test
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
pH	6.0-8.4
Sulfates and Sulfites	max. 0.2%
Sulfides	passes test
Water (H ₂ O)	32.0-37.0%

PRODUCT NO.	PACKING	CONT. BOX
1779.1000	1 kg	6
1779.5000	5 kg	
1779.9025BB	25 kg Bag-in-Box	
1779.9050	50 kg	

Preserve in tight containers.

Stored in an airtight container.

Sodium Thiosulfate

1 mol/l / 'BAKER ANALYZED'

7100

▶ Na₂S₂O₃

M = 158.11 g/mol

CAS NO. 10102-17-7

EINECS 231-867-5

NC CODE 2832 30 000

Titer (mol/l)

0.995-1.005

Trace Impurities (in ppm):

Heavy Metals (as Pb)

max. 1

Sulfate and Sulfite (as SO₄)

max. 50

PRODUCT
NO.

PACKING

CONT.
BOX

7100.1000

1 l

6

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Dichromate.

Sodium Thiosulfate

0.1 mol/l / 'BAKER ANALYZED'

7101

▶ Na₂S₂O₃

M = 158.11 g/mol

CAS NO. 1010-21-7

EINECS 231-867-5

NC CODE 2832 30 000

Titer (mol/l)

0.0997-0.1003

Trace Impurities (in ppm):

Heavy Metals (as Pb)

max. 1

Sulfate and Sulfite (as SO₄)

max. 50

PRODUCT
NO.

PACKING

CONT.
BOX

7101.1000

1 l

6

7101.9010

10 l Polycube

7101.9020

20 l Polycube

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against a NIST Standard Reference Material, Potassium Dichromate.

Sodium Thiosulfate

0.1 mol/l / DILUT-IT

4695

▶ Na₂S₂O₃

M = 158.11 g/mol

CAS NO. 10102-17-7

EINECS 231-867-5

NC CODE 2832 30 000

PRODUCT
NO.

PACKING

CONT.
BOX

4695

1 Amp.

6

Volumetric Concentrate, for dilution to 1 l.

Sodium Thiosulfate

0.01 mol/l / DILUT-IT

4693

▶ Na₂S₂O₃

M = 158.11 g/mol

CAS NO. 10102-17-7

EINECS 231-867-5

NC CODE 2832 30 000

PRODUCT
NO.

PACKING

CONT.
BOX

4693

1 Amp.

6

Volumetric Concentrate, for dilution to 1 l.

Sodium Tungstate Dihydrate

'BAKER'

0321

▶ Na₂WO₄·2H₂O

M = 329.86 g/mol

CAS NO. 10213-10-2

EINECS 236-743-4

NC CODE 2841 80 000

H: H302

P: P264-P270-P301+P312-P330-

P501a



Warning

Assay

min. 99.0%

Alkalinity (as Na₂CO₃)

max. 0.2%

Arsenic (As)

max. 0.002%

Chloride (Cl)

max. 0.01%

Heavy Metals and Iron (as Pb)

max. 0.001%

Insoluble Matter

max. 0.02%

Molybdenum (Mo)

max. 0.05%

pH of 5% Solution at 25°C

8.0-10.0

Sulfate (SO₄)

max. 0.02%

PRODUCT
NO.

PACKING

CONT.
BOX

0321.0500

500 g

Sodium Tungstate Dihydrate

1195

'BAKER ANALYZED' / ACS

▶ Na₂WO₄·2H₂O

M = 329.86 g/mol

CAS NO. 10213-10-2

EINECS 236-743-4

NC CODE 2841 80 000

H: H302

P: P264-P270-P301+P312-P330-P501a



Warning

Meets ACS Specifications

Assay	99.0-101.0%
Chloride (Cl)	max. 0.005%
Heavy Metals and Iron (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Molybdenum (Mo)	max. 0.001%
Sulfate (SO ₄)	max. 0.01%
Titration Free Base	max. 0.02 meq/g

PRODUCT NO.	PACKING	CONT. BOX
1195.0100	100 g	
1195.1000	1 kg	

Sodium Wolframate

See Sodium Tungstate Dihydrate

D(-)-Sorbitol

2039

'BAKER'

▶ HOCH₂(CHOH)₄CH₂OH·H₂O

M = 200.19 g/mol

CAS NO. 50-70-4

EINECS 200-061-5

NC CODE 2905 44 910

Assay	98.0-101.0%
Appearance of solution	passes test
Chloride (Cl)	max. 50 ppm
Identification	passes test
Lead (Pb)	max. 0.5 ppm
Nickel (Ni)	max. 1 ppm
Reducing Sugars (as Glucose)	passes test
Residue after Ignition (as SO ₄)	max. 0.1%
Specific rotation	+4.0 - +7.0
Sulfate (SO ₄)	max. 100 ppm
Water (H ₂ O)	max. 1.5%

PRODUCT NO.	PACKING	CONT. BOX
2039.1000	1 kg	

Sørensen buffer

3716

HEMATOLOGY/HISTOLOGY

For use in combination with staining solutions

PRODUCT NO.	PACKING	CONT. BOX
3716	100 ml HDPE x 10	

Phosphate Buffer Concentrate (20x).

Stannous Chloride Dihydrate

See Tin(II) Chloride Dihydrate

Starch

0327

'BAKER ANALYZED' / Soluble potato for iodometry / ACS

CAS NO. 9005-25-8

EINECS 232-679-6

NC CODE 3505 10 900

Meets ACS Specifications

pH of 2% Solution at 25°C	5.0-7.0
Residue after Ignition	max. 0.4%
Sensitivity	passes test
Solubility	passes test

PRODUCT NO.	PACKING	CONT. BOX
0327.0250	250 g	6
0327.2500	2.5 kg	

Strontium 1000 µg/ml

5781

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Sr

M = 87.62 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-P305+P351+P338-P362



Danger

Strontium (Sr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5781.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Strontium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6942

► Sr	Strontium (Sr)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 87.62 g/mol			6942.0100	100 ml	
NC CODE 3822 00 000					
H: H315-H319					
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362					
					
Warning					
			Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.		

Strontium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6823

► Sr	Strontium (Sr)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 87.62 g/mol			6823.0100	100 ml	
NC CODE 3822 00 000					
H: H315					
P: P264-P280-P302+P352-P321-P332+P313-P362					
					
Warning					
			Strontium Chloride in Nitric Acid 0.5 mol/l.		

Strontium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5747

► Sr	Strontium (Sr)	9980-10020 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 87.62 g/mol			5747.0100	100 ml	
NC CODE 3822 00 000					
H: H272-H315-H319					
P: P210-P220-P221-P280-P305+P351+P338-P362					
 					
Danger					
			Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.		
			The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.		

Strontium Chloride Hexahydrate

'BAKER ANALYZED' / ACS

0331

► SrCl ₂ ·6H ₂ O	Meets ACS Specifications	PRODUCT NO.	PACKING	CONT. BOX
M = 266.62 g/mol	Assay	99.0-103.0%	0331.0500	500 g
CAS NO. 10025-70-4	Barium (Ba)	max. 0.05%		
EINECS 233-971-6	Calcium (Ca)	max. 0.05%		
NC CODE 2827 39 900	Insoluble Matter	max. 0.005%		
H: H302-H312-H332	pH of 5% Solution at 25°C	5.0-7.0		
P: P261-P280-P301+P312-P304+P340-P312-P501a	Sulfate (SO ₄)	max. 0.001%		
	Trace Impurities (in ppm):			
Warning	Heavy Metals (as Pb)	max. 5		
	Iron (Fe)	max. 5		
	Magnesium (Mg)	max. 2		

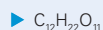
Succinic Acid Disodium Salt

See Sodium Succinate Hexahydrate



Sucrose

4890 ULTREX Ultrapure Reagent



M = 342.30 g/mol

CAS NO. 57-50-1

EINECS 200-334-9

NC CODE 1701 99 100

Actual Analysis Lot.No. J25H00

Ash (sulfated)	0.04%
Homogeneity by GC	passes test
Homogeneity (by TLC)	no extraneous spots
Invert Sugar	< 0.0001%
Loss on Drying at 105°C	< 0.001%
Particulate Matter	< 0.0001%
Specific Rotation $[\alpha]_D^{25}$	67.2°
Titration Acid ($\mu\text{eq/g}$)	< 0.1

Metallic Impurities in parts per million ($\mu\text{g/g}$):

Aluminium (Al)	< 0.2
Bismuth (Bi)	< 2.2
Cadmium (Cd)	0.1
Calcium (Ca)	0.2
Chromium (Cr)	0.2
Cobalt (Co)	0.2
Copper (Cu)	0.2
Iron (Fe)	0.2
Lead (Pb)	< 0.2
Magnesium (Mg)	0.1
Manganese (Mn)	0.2

Mercury (Hg)	< 0.3
Molybdenum (Mo)	0.1
Nickel (Ni)	0.2
Silver (Ag)	< 0.3
Sodium (Na)	0.7
Tin (Sn)	0.2
Titanium (Ti)	0.2
Vanadium (V)	0.2
Zinc (Zn)	< 0.2

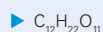
Non-Metallic Impurities in parts per million ($\mu\text{g/g}$):

Arsenic (As)	< 0.8
Boron (B)	< 0.05
Chloride (Cl)	< 25
Nitrogen Compounds (as N)	< 2
Silicon (Si)	0.2
Sulfate and Sulfite (as SO_4)	< 5

PRODUCT NO.	PACKING	CONT. BOX
4890.0100	100 g Glass	
4890.0500	500 g Glass	

Sucrose

4097 'BAKER ULTRAPURE BIOREAGENT' / For Density Gradient Centrifugation



M = 342.30 g/mol

CAS NO. 57-50-1

EINECS 200-334-9

NC CODE 1701 99 100

Assay (by HPLC)	min. 99.9%
Clarity and Color of Solution	passes test
Clarity of Solution	passes test
DNase Activity	none detected
Glucose	max. 0.1%
Protease Activity	none detected
RNase Activity	none detected

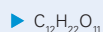
Trace Impurities (in ppm):

Total of Copper (Cu), Iron (Fe) and Lead (Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4097.1000	1 kg	
4097.5000	5 kg	

Sucrose

0334 'BAKER ANALYZED' / ACS



M = 342.30 g/mol

CAS NO. 57-50-1

EINECS 200-334-9

NC CODE 1701 99 100

Meets ACS Specifications

Insoluble Matter	max. 0.005%
Invert Sugar	max. 0.05%
Loss on Drying at 105°C	max. 0.03%
Residue after Ignition	max. 0.01%
Specific Rotation $[\alpha]_D^{25}$	+66.3°+66.8°
Titration Acid (meq/g)	max. 0.0008

Metallic Impurities in parts per million ($\mu\text{g/g}$):

Iron (Fe)	max. 5 ppm

Non-Metallic Impurities in parts per million ($\mu\text{g/g}$):

Chloride (Cl)	max. 0.005%
Sulfate and Sulfite (as SO_4)	max. 0.005%

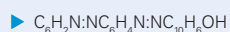
Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0334.1000	1 kg	6
0334.5000	5 kg	

Sudan III

0707 'BAKER'



M = 352.40 g/mol

CAS NO. 85-86-9

EINECS 201-638-4

NC CODE 2927 00 000

Identification (by IR)	passes test

PRODUCT NO.	PACKING	CONT. BOX
0707.0025	25 g Glass	

C.I. 26100.

Sulfamic Acid

'BAKER ANALYZED'

1828

▶ $\text{NH}_2\text{SO}_3\text{H}$

M = 97.09 g/mol

CAS NO. 5329-14-6

EINECS 226-218-8

NC CODE 2811 19 800

EC INDEX NO. 16 026 00 0

UN/ID NO. 2967

ADR/RID 8 C2

IMDG 8/III

H: H315-H319-H412

P: P273-P280-P305+P351+P338-
P332+P313-P362-P501a

Warning

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Residue after Ignition	max. 0.01%
Sulfate (SO_4)	max. 0.02%

Trace Impurities (in ppm):

Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1828.0250	250 g	
1828.1000	1 kg	
1828.5000	5 kg	

Sulfanilamide

'BAKER'

0709

▶ $4\text{-NH}_2\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2$

M = 172.21 g/mol

CAS NO. 63-74-1

EINECS 200-563-4

NC CODE 2935 00 900

Melting Point	164-166°C

PRODUCT NO.	PACKING	CONT. BOX
0709.1000	1 kg	

Sulfanilic Acid Anhydrous

'BAKER ANALYZED' / ACS

1197

▶ $4\text{-NH}_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$

M = 173.19 g/mol

CAS NO. 121-57-3

EINECS 204-482-5

NC CODE 2921 42 100

EC INDEX NO. 612 014 00 0

H: H315-H317-H319

P: P261-P280-P305+P351+P338-
P362-P363-P501a

Warning

Exceeds ACS Specifications

Assay	98.0-102.0%
Chloride (Cl)	max. 0.002%
Insoluble in Sodium Carbonate Solution	max. 0.01%
Residue after Ignition	max. 0.01%
Suitability for Nitrogen Dioxide Determination (ASTM D1607)	passes test
Sulfate (SO_4)	max. 0.005%

Trace Impurities (in ppm):

Nitrite (NO_2)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
1197.0100	100 g	

Sulfosalicylic Acid Dihydrate

'BAKER ANALYZED' / ACS

1198

▶ $2\text{-HOC}_6\text{H}_3\text{-1-COOH-5-SO}_3\text{H}\cdot 2\text{H}_2\text{O}$

M = 254.22 g/mol

CAS NO. 5965-83-3

EINECS 202-555-6

NC CODE 2918 29 100

UN/ID NO. 3261

ADR/RID 8 C4

IMDG 8/III

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Meets ACS Specifications

Assay (acidimetric)	99.0-101.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.02%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.1%
Salicylic Acid ($\text{HOC}_6\text{H}_4\text{COOH}$)	max. 0.04%
Sulfate (SO_4)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
1198.0100	100 g	
1198.1000	1 kg	

Sulfuric Acid

6027 95-98% (max.5 ppb Hg) / 'BAKER ANALYZED' / ACS

▶ H₂SO₄

M = 98.08 g/mol

1 l = 1.84 kg

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 00 8

UN/ID NO. 1830

ADR/RID 8 C1

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Exceeds ACS Specifications

Assay	95.0-98.0%
Ammonium (NH ₄)	max. 1 ppm
Appearance	passes test
Color (APHA)	max. 10
Mercury (Hg)	max. 5 ppb
Residue after Ignition	max. 4 ppm
Substances Reducing KMnO ₄ (as SO ₂)	max. 2 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.01
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chloride (Cl)	max. 0.1
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 0.1

Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Nitrate (NO ₃)	max. 0.5
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6027.1000	1 l	
6027.2500	2.5 l	4

Sulfuric Acid

6163 95-98% / 'BAKER INSTRA-ANALYZED' / For Trace Metal Analysis

▶ H₂SO₄

M = 98.08 g/mol

1 l = 1.84 kg

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 00 8

UN/ID NO. 1830

ADR/RID 8 C1

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	95.0-98.0%
Color (APHA)	max. 10
Residue after Ignition	max. 3 ppm

Trace Impurities (in ppb):

Aluminium (Al)	max. 30
Arsenic and Antimony (as As)	max. 4
Barium (Ba)	max. 20
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 50
Boron (B)	max. 10
Cadmium (Cd)	max. 2
Calcium (Ca)	max. 50
Chromium (Cr)	max. 6
Cobalt (Co)	max. 0.5
Copper (Cu)	max. 1
Gallium (Ga)	max. 20
Germanium (Ge)	max. 100
Gold (Au)	max. 50
Heavy Metals (as Pb)	max. 500
Iron (Fe)	max. 50
Lead (Pb)	max. 0.5
Lithium (Li)	max. 20
Magnesium (Mg)	max. 7
Manganese (Mn)	max. 1
Mercury (Hg)	max. 0.5
Molybdenum (Mo)	max. 50

Nickel (Ni)	max. 2
Niobium (Nb)	max. 50
Potassium (K)	max. 500
Selenium (Se)	for information only
Silicon (Si)	max. 100
Silver (Ag)	max. 1
Sodium (Na)	max. 500
Strontium (Sr)	max. 5
Tantalum (Ta)	max. 50
Thallium (Tl)	max. 80
Tin (Sn)	max. 5
Titanium (Ti)	max. 10
Vanadium (V)	max. 10
Zinc (Zn)	max. 5
Zirconium (Zr)	max. 10

Trace Impurities (in ppm):

Ammonium (NH ₄)	max. 1
Chloride (Cl)	max. 0.1
Nitrate (NO ₃)	max. 0.2
Phosphate (PO ₄)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
6163.0500	500 ml	6
6163.2500	2.5 l	4

A NEW GENERATION
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PERFORMANCE MATERIALS

Sulfuric Acid

95-97% / 'BAKER ANALYZED'

6057

▶ H₂SO₄

M = 98.08 g/mol

1 l = 1.84 kg

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 00 8

UN/ID NO. 1830

ADR/RID 8 C1

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	95-97%
Ammonium (NH ₄)	max. 1 ppm
Color (APHA)	max. 10
Heavy Metals (as Pb)	max. 5 ppm
Nitrate (NO ₃)	max. 1 ppm
Residue after Ignition	max. 5 ppm
Substances Reducing KMnO ₄ (as SO ₂)	max. 5 ppm

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chloride (Cl)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01

Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6057.1000	1 l	6
6057.1000PE	1 l HDPE	
6057.2500	2.5 l	4
6057.9025	25 l	
6057.9200	200 l	

Sulfuric Acid

95% / ULTREX II Ultrapure Reagent

6902

▶ H₂SO₄

M = 98.08 g/mol

1 l = 1.84 kg

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 00 8

UN/ID NO. 1830

ADR/RID 8 C1

IMDG 8/II

H: H314

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	93 -98% (w/w)

Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 50
Antimony (Sb)	max. 50
Arsenic (As)	max. 500
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 100
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 10
Cobalt (Co)	max. 10
Copper (Cu)	max. 10
Dysprosium (Dy)	max. 10
Erbium (Er)	max. 10
Europium (Eu)	max. 10
Gadolinium (Gd)	max. 10
Gallium (Ga)	max. 10
Germanium (Ge)	max. 100
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 10
Indium (In)	max. 10
Iron (Fe)	max. 50
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 50
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 10

Nickel (Ni)	max. 50
Niobium (Nb)	max. 10
Palladium (Pd)	act. value reported
Platinum (Pt)	act. value reported
Potassium (K)	max. 50
Praseodymium (Pr)	max. 10
Rhodium (Rh)	max. 50
Rubidium (Rb)	max. 10
Samarium (Sm)	max. 10
Scandium (Sc)	max. 10
Selenium (Se)	max. 500
Silver (Ag)	max. 50
Sodium (Na)	max. 50
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 100
Terbium (Tb)	max. 10
Thallium (Tl)	max. 10
Thorium (Th)	max. 10
Thulium (Tm)	max. 10
Tin (Sn)	max. 50
Titanium (Ti)	max. 50
Tungsten (W)	max. 10
Uranium (U)	max. 10
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 10
Yttrium (Y)	max. 10
Zinc (Zn)	max. 50
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6902.0500	500 ml Fluoropolymer, pre-leached	

Sulfuric Acid

6147 90-91% / 'BAKER ANALYZED' / For fat determination according to Gerber

▶ H_2SO_4	Assay (acidimetric)	90-91%	PRODUCT NO.	PACKING	CONT. BOX
M = 98.08 g/mol	Density (g/ml)	1.815-1.821	6147.2500PL	2.5 l Glass, Poly Coated	4
1 l = 1.82 kg	Nitrate (NO_3)	max. 0.2 ppm	6147.9025	25 l	
CAS NO. 7664-93-9	Suitability for Gerber test	passes test			
EINECS 231-639-5					
NC CODE 2807 00 100					
EC INDEX NO. 16 020 00 8					
UN/ID NO. 1830					
ADR/RID 8 C1					
IMDG 8/II					
H: H314					
P: P260-P280-P303+P361+P353-P305+P351+P338-P310-P405					
					
Danger					

Sulfuric Acid

7610 4 mol/l / 'BAKER ANALYZED'

▶ H_2SO_4	Titer (mol/l)	3.95-4.05	PRODUCT NO.	PACKING	CONT. BOX
M = 98.08 g/mol			7610.1000	1 l	6
CAS NO. 7664-93-9					
EINECS 231-639-5					
NC CODE 2807 00 100					
EC INDEX NO. 16 020 00 8					
UN/ID NO. 2796					
ADR/RID 8 C1					
IMDG 8/II					
H: H314					
P: P260-P280-P303+P361+P353-P305+P351+P338-P310-P405					
					
Danger					
			Volumetric Solution, ready for use.		

Sulfuric Acid

7624 2 mol/l / 'BAKER ANALYZED'

▶ H_2SO_4	Titer (mol/l)	1.99 - 2.01	PRODUCT NO.	PACKING	CONT. BOX
CAS NO. 7664-93-9			7624.5000	5 l	
EINECS 231-639-5					
NC CODE 2807 00 100					
UN/ID NO. 2796					
ADR/RID 8 C1					
IMDG 8/II					
H: H314					
P: P260-P280-P303+P361+P353-P305+P351+P338-P310-P405					
					
Danger					
			Volumetric Solution, ready for use.		

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Sulfuric Acid

0.5 mol/l 1N / 'BAKER ANALYZED'

7102

▶ H₂SO₄

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

H: EUH210

Titer (N)

0.997-1.003

Trace Impurities (in ppm):

Chloride (Cl) max. 1

Heavy Metals (as Pb) max. 0.3

Iron (Fe) max. 0.5

Phosphate (PO₄) max. 1PRODUCT
NO.

PACKING

CONT.
BOX

7102.1000

1 l

6

7102.9010

10 l Polycube

7102.9020

20 l Polycube

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST traceable reference standard).

Sulfuric Acid

0.25 mol/l 0.5N / 'BAKER ANALYZED'

7110

▶ H₂SO₄

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

H: EUH210

Titer (N)

0.4975-0.5025

Trace Impurities (in ppm):

Chloride (Cl) max. 1

Heavy Metals (as Pb) max. 0.3

Iron (Fe) max. 0.5

Phosphate (PO₄) max. 1PRODUCT
NO.

PACKING

CONT.
BOX

7110.1000

1 l

6

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST traceable reference standard).

Sulfuric Acid

0.1 mol/l 0.2 N / 'BAKER ANALYZED'

7215

▶ H₂SO₄

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

H: EUH210

Titer (N)

0.199-0.201

PRODUCT
NO.

PACKING

CONT.
BOX

7215.9010

10 l Polycube

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST traceable reference standard).

Sulfuric Acid

0.05 mol/l 0.1N / 'BAKER ANALYZED'

7103

▶ H₂SO₄

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

Titer (N)

0.0997-0.1003

Trace Impurities (in ppm):

Chloride (Cl) max. 1

Heavy Metals (as Pb) max. 0.3

Iron (Fe) max. 0.5

Phosphate (PO₄) max. 1PRODUCT
NO.

PACKING

CONT.
BOX

7103.1000

1 l

6

7103.9010

10 l Polycube

7103.9020

20 l Polycube

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST traceable reference standard).

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AVANTOR
PERFORMANCE MATERIALS

A
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4701

Sulfuric Acid

2.5 mol/l / DILUT-IT

▶ H₂SO₄

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 00 8

UN/ID NO. 1830

ADR/RID 8 C1

IMDG 8/I

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4701	500 ml Sealed Bottle	

Volumetric Concentrate, for dilution to 1 l.

4700

Sulfuric Acid

0.5 mol/l / DILUT-IT

▶ H₂SO₄

M = 98.08 g/mol

1 l = 1.29 kg

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 00 8

UN/ID NO. 2796

ADR/RID 8 C1

IMDG 8/II

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

PRODUCT NO.	PACKING	CONT. BOX
4700	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

4699

Sulfuric Acid

0.05 mol/l / DILUT-IT

▶ H₂SO₄

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 01 5

UN/ID NO. 2796

ADR/RID 8 C1

IMDG 8/II

H: H315-H319

P: P280-P264-P305+P351+P338-
P362-P332+P313-P337+P313

Warning

PRODUCT NO.	PACKING	CONT. BOX
4699	1 Amp.	6

Volumetric Concentrate, for dilution to 1 l.

4704

Sulfuric Acid

0.01 mol/l / DILUT-IT

▶ H₂SO₄

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 100

EC INDEX NO. 16 020 01 5

H: EUH210

PRODUCT NO.	PACKING	CONT. BOX
4704	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

Sulfuric Acid

0.005 mol/l 0.01N / DILUT-IT

4869

NC CODE 2807 00 100

PRODUCT NO.	PACKING	CONT. BOX
4869	1 Amp.	

Volumetric Concentrate, for dilution to 1 l.

Talc

Powder / 'BAKER'

0339

CAS NO.	14807-96-6	Loss on drying (at 180°C)	max. 1.0%
EINECS	238-877-9	Organic Substances	passes test
NC CODE	2526 20 000		

PRODUCT NO.	PACKING	CONT. BOX
0339.2500	2.5 kg	

Tannic Acid

See Tannin

Tannin

'BAKER ANALYZED'

1199

▶ $C_{76}H_{52}O_{46}$

M =	1701.23 g/mol	Loss on Drying at 100°C	max. 12%
CAS NO.	1401-55-4	Residue after Ignition	max. 0.1%
EINECS	215-753-2		
NC CODE	3201 90 900		

PRODUCT NO.	PACKING	CONT. BOX
1199.0250	250 g	

Tantalum 1000 µg/ml

(Matrix: H₂O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5782

▶ Ta

M =	180.95 g/mol	Tantalum (Ta)	998-1002 µg/ml
NC CODE	3822 00 000		
UN/ID NO.	1790		
ADR/RID	8 CT1		
IMDG	8/II		
H:	20/21/22-36		
P:	26-36/37		

PRODUCT NO.	PACKING	CONT. BOX
5782.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Tantalum 10000 µg/ml

(Matrix: 1% hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5748

▶ Ta

M =	180.95 g/mol	Tantalum (Ta)	9980-10020 µg/ml
NC CODE	3822 00 000		
UN/ID NO.	1790		
ADR/RID	8 CT1		
IMDG	8/II		
H:	H311-H302-H319		
P:	P280-P305+P351+P338-P361-P301+P312-P312-P405		

PRODUCT NO.	PACKING	CONT. BOX
5748.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.



Danger

L(+)-Tartaric Acid

0340 'BAKER ANALYZED' / ACS

▶ HOOC(CHOH)₂COOH

M = 150.09 g/mol

CAS NO. 87-69-4

EINECS 201-766-0

NC CODE 2918 12 000

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Oxalate (C ₂ O ₄)	passes test
Phosphate (PO ₄)	max. 0.001%
Residue after Ignition	max. 0.02%
Sulfur Compounds (as S)	max. 0.002%

Trace Impurities (in ppm):

Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0340.1000	1 kg	6

L(+)-Tartaric Acid

2054 'BAKER'

▶ HOOC(CHOH)₂COOH

M = 150.09 g/mol

CAS NO. 87-69-4

EINECS 201-766-0

NC CODE 2918 12 000

H: H319

P: P264-P280-P305+P351+P338-P337+P313



Warning

Assay	99.5-101.0%
Appearance of solution	passes test
Calcium (Ca)	max. 200 ppm
Chloride (Cl)	max. 100 ppm
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Loss on Drying	max. 0.2%
Oxalic acid	max. 350 ppm
Specific Optical Rotation	+12.0 - +12.8
Sulfated Ash	max. 0.1%
Sulfates (as SO ₄)	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
2054.1000	1 kg	
2054.9025	25 kg	

Tellurium 1000 µg/ml

5783 (Matrix: 10% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Te

Tellurium (Te) 998-1002 µg/ml

M = 127.60 g/mol

NC CODE 3822 00 000

H: H315-H319-H335+H336

P: P261-P280-P304+P340-P305+P351+P338-P362-P405



Warning

PRODUCT NO.	PACKING	CONT. BOX
5783.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Tellurium 10000 µg/ml

5749 (Matrix: 40% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Te

Tellurium (Te) 9980-10020 µg/ml

M = 127.60 g/mol

NC CODE 3822 00 000

UN/ID NO. 1789

ADR/RID 8 C1

IMDG 8/II

H: H314-H335+H336

P: P260-P261-P303+P361+P353-P305+P351+P338-P310-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
5749.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

▶ TEMED

See Tetramethylethylene diamine

▶ 2',4',5',7'-Tetrabromofluorescein

See Eosin Y (Yellowish)

3',3',5',5'-Tetrabromophenolsulfonphthalein

See Bromophenol Blue

Tetrabutylammonium Dihydrogen Phosphate

See Tetrabutylammonium Hydroxide

Tetrabutylammonium Hydrogen Sulfate

98% / 'BAKER HPLC ANALYZED' / For Use in Ion-Pair Chromatography

2846

▶ $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2)_4\text{NHSO}_4$
M = 339.54 g/mol
CAS NO. 32503-27-8
EINECS 251-068-5
NC CODE 2923 90 000
UN/ID NO. 3261
ADR/RID 8 C4
IMDG 8/II
H: H315-H319
P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362



Warning

Meets Reagent Specifications for testing

USP/NF monographs

Assay	min. 98%
Melting Range	167 - 173°C

PRODUCT NO.	PACKING	CONT. BOX
2846.0500	500 g	

Tetrabutylammonium Hydroxide

0.4M in water / Titrant / 'BAKER HPLC ANALYZED' / For Use in Ion-Pair Chromatography

2843

▶ $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2)_4\text{NOH}$
M = 259.48 g/mol
CAS NO. 5574-97-0
EINECS 218-147-6
NC CODE 2923 90 000
UN/ID NO. 3267
ADR/RID 8 C7
IMDG 8/II
H: H314
P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405



Danger

Absorbance at 420 nm (neat)	max. 0.15
Appearance	passes test
Bromide (Br)	max. 0.05%
Molarity (M)	0.37-0.43

PRODUCT NO.	PACKING	CONT. BOX
2843.0500	500 g	

Tetrabutylammonium Phosphate

'BAKER HPLC ANALYZED' / For Use in Ion-Pair Chromatography

2842

▶ $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2)_4\text{NH}_2\text{PO}_4$
M = 339.46 g/mol
CAS NO. 5574-97-0
EINECS 226-947-1
NC CODE 2923 90 000

Meets Reagent Specifications for testing

USP/NF monographs

Assay	min. 97.0%
Appearance (white to off-white powder)	passes test
Ultraviolet Absorbance (0.1% Solution in water):	
at 196 nm	max. 1.00
at 200 nm	max. 0.21
at 210 nm	max. 0.15
at 215-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
2842.0025	25 g Glass	

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Tetrachloroethylene

9360

'BAKER ULTRA RESI-ANALYZED' / For Trace Hydrocarbon Analysis by IR Spectrophotometry



M = 165.85 g/mol

1 l = 1.62 kg

CAS NO. 127-18-4

EINECS 204-825-9

NC CODE 2903 23 000

EC INDEX NO. 602 028 00 4

UN/ID NO. 1897

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351-H411

P: P273-P281-P308+P313-P391-
P405-P501a

Warning

Assay (by GC) min. 99.8%

Chloride (Cl) max. 1 ppm

Free Halogen (ASTM-D 4755) passes test

Residue after Evaporation max. 10 ppm

Titrable Acid ($\mu\text{eq/g}$) max. 0.5Water (H_2O) (by Karl Fischer titrn.) max. 0.005%**Infrared Absorbance Test: Range 3200-2700 cm^{-1} ,****Measured at 2930 cm^{-1} (Hexadecane:isooctane:****chlorobenzene standard mixture):**

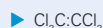
Hydrocarbons (excl. of stabilizer) max. 5 ppm

PRODUCT NO.	PACKING	CONT. BOX
9360.4000	4 l Glass	4

Tetrachloroethylene

7165

'BAKER'



M = 165.85 g/mol

1 l = 1.62 kg

CAS NO. 127-18-4

EINECS 204-825-9

NC CODE 2903 23 000

EC INDEX NO. 602 028 00 4

UN/ID NO. 1897

ADR/RID 6.1 T1

IMDG 6.1/III

H: H351-H411

P: P273-P281-P308+P313-P391-
P405-P501a

Warning

PRODUCT NO.	PACKING	CONT. BOX
7165.2500	2.5 l	4

Stabilized with 0.015% 4-Methylmorpholine.

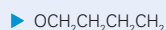
Tetraethylrhodamine

See Rhodamine B

Tetrahydrofuran

9439

Low Water / 'BAKER HPLC ANALYZED' / For use in Liquid Chromatography, Organic and Biosynthesis



M = 72.11 g/mol

1 l = 0.88 kg

FLASHPOINT -20 °C

CAS NO. 109-99-9

EINECS 203-726-8

NC CODE 2932 11 000

EC INDEX NO. 603 025 00 0

UN/ID NO. 2056

ADR/RID 3 T1

IMDG 3/II

H: EUH019-H225-H319-H335

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC) (corrected for water) min. 99.8%

Color (APHA) max. 10

Peroxide (as H_2O_2) max. 10 ppm

Residue after Evaporation max. 2 ppm

Water (by KF, coulometric) max. 50 ppm

Ultraviolet Absorbance (1.00-cm path vs water):

at 230 nm max. 0.40

at 254 nm max. 0.15

at 280 nm max. 0.030

at 320-400 nm max. 0.005

UV Cut-off, nm max. 212

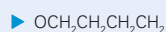
PRODUCT NO.	PACKING	CONT. BOX
9439.1000	1 l	

Contains no preservative.

Tetrahydrofuran

'BAKER HPLC ANALYZED' / For Use in Liquid Chromatography and Spectrophotometry

9440



M = 72.11 g/mol

1 l = 0.88 kg

FLASHPOINT -20 °C

CAS NO. 109-99-9

EINECS 203-726-8

NC CODE 2932 11 000

EC INDEX NO. 603 025 00 0

UN/ID NO. 2056

ADR/RID 3 T1

IMDG 3/II

H: EUH019-H225-H319-H335

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC) (corrected for water)	min. 99.8%
Peroxide (as H ₂ O ₂) ¹	max. 0.005%
Residue after Evaporation	max. 2 ppm
Water (by KF, coulometric)	max. 0.02%

Ultraviolet Absorbance (1.00-cm path vs water):

at 230 nm	max 0.45
at 254 nm	max. 0.15
at 280 nm	max. 0.030
at 320-400 nm	max. 0.01
UV Cut-off, nm	max. 212

¹ At time of lot release.

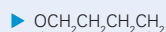
PRODUCT NO.	PACKING	CONT. BOX
9440.1000	1 l	6

Contains no preservative.

Tetrahydrofuran

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

9441



M = 72.11 g/mol

1 l = 0.88 kg

FLASHPOINT -20 °C

CAS NO. 109-99-9

EINECS 203-726-8

NC CODE 2932 11 000

EC INDEX NO. 603 025 00 0

UN/ID NO. 2056

ADR/RID 3 T1

IMDG 3/II

H: EUH019-H225-H319-H335

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC)	min. 99.8%
Peroxide (as H ₂ O ₂) ¹	max. 0.010%
Residue after Evaporation	max. 3 ppm
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.02%

Product Information (not specifications):

Density (g/ml) at 20°C 0.889

Ultraviolet Absorbance (1.00-cm path vs water):

at 230 nm	max. 1.0
at 260 nm	max. 0.15
at 270 nm	max. 0.08
at 310 nm	max. 0.02

¹ At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
9441.1000	1 l	
9441.2500	2.5 l	4

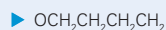
Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Tetrahydrofuran

BakerDRY / Low Water Solvent / ACS

9446



M = 72.11 g/mol

1 l = 0.88 kg

FLASHPOINT -20 °C

CAS NO. 109-99-9

EINECS 203-726-8

NC CODE 2932 11 000

EC INDEX NO. 603 025 00 0

UN/ID NO. 2056

ADR/RID 3 T1

IMDG 3/II

H: EUH019-H225-H319-H335

P: P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Meets ACS Specifications

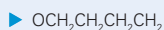
Assay (by GC) (corrected for water)	min. 99.8%
Color (APHA)	max. 10
Peroxide (as H ₂ O ₂)	max. 10 ppm
Residue after Evaporation	max. 1 ppm
Water (by KF, coulometric)	max. 10 ppm

PRODUCT NO.	PACKING	CONT. BOX
9446.1000	1 l	

Packaged under Argon.

Tetrahydrofuran
'BAKER ANALYZED'

8075

**M** = 72.11 g/mol**1 l** = 0.88 kg**FLASHPOINT** -20 °C**CAS NO.** 109-99-9**EINECS** 203-726-8**NC CODE** 2932 11 000**EC INDEX NO.** 603 025 00 0**UN/ID NO.** 2056**ADR/RID** 3 F1**IMDG** 3/II**H:** EUH019-H225-H319-H335**P:** P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC)	min. 99%
Boiling Range	65-67°C
Color (APHA)	passes test
Density (g/ml) at 25°C	0.880-0.883
Peroxide (as H ₂ O ₂)	max. 0.02%
Residue after Evaporation	max. 0.002%
Water (H ₂ O)	max. 0.02%

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1

Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8075.1000	1 l	6
8075.2500	2.5 l	4
8075.5000	5 l EcoTainer	
8075.9025	25 l	

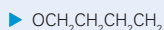
EcoTainer, the metal solvent can for more safety in the lab.

For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with 0.025% BHT.

Tetrahydrofuran
'BAKER'

8117

**M** = 72.11 g/mol**1 l** = 0.88 kg**FLASHPOINT** -20 °C**CAS NO.** 109-99-9**EINECS** 203-726-8**NC CODE** 2932 11 000**EC INDEX NO.** 603 025 00 0**UN/ID NO.** 2056**ADR/RID** 3 F1**IMDG** 3/II**H:** EUH019-H225-H319-H335**P:** P210-P241-P303+P361+P353-
P305+P351+P338-P405-P501a

Danger

Assay (by GC)	min. 99%
Boiling Range	65-68°C
Water (H ₂ O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
8117.9200	200 l	

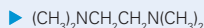
Stabilized with 0.025% BHT.

Tetramethylene Oxide
See Tetrahydrofuran

N,N,N',N'-Tetramethylethylene diamine

4098

'BAKER ULTRAPURE BIOREAGENT' / Catalyst for polyacrylamide gels

**M** = 116.21 g/mol**1 l** = 0.78 kg**FLASHPOINT** 17 °C**CAS NO.** 110-18-9**EINECS** 203-744-6**NC CODE** 2921 29 000**EC INDEX NO.** 612 103 00 3**UN/ID NO.** 2372**ADR/RID** 3 F1**IMDG** 3/II**H:** H225-H302-H314-H332**P:** P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	act. value reported
DNase Activity	none detected
Protease Activity	none detected
Refractive Index at 25°C, n _D ²⁰	1.414-1.420
RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4098.0005	5 ml	
4098.0025	25 ml	
4098.0050	50 ml	

Thallium 1000 µg/ml

(Matrix: 2% nitric acid) / Plasma standard

5784

▶ TI

Thallium (TI)

998-1002 µg/ml

M = 204.38 g/mol
NC CODE 3822 00 000
H: H315-H319
P: P280-P264-P305+P351+P338-
 P362-P332+P313-P337+P313



Warning

PRODUCT NO.	PACKING	CONT. BOX
5784.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Thallium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER ANALYZED' / Plasma standard

5761

▶ TI

Thallium (TI)

9980-10020 µg/ml

M = 204.38 g/mol
NC CODE 3822 00 000
H: H302-H315-H319
P: P280-P305+P351+P338-
 P362-P301+P312-P332+P313-
 P337+P313



Warning

PRODUCT NO.	PACKING	CONT. BOX
5761.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Thioacetamide

crystal / 'BAKER ANALYZED'

1200

▶ CH₃CSNH₂

Assay

min. 99.0%

M = 75.13 g/mol**CAS NO.** 62-55-5**INECS** 200-541-4**NC CODE** 2930 90 700**EC INDEX NO.** 616 026 00 6**H:** H302-H315-H319-H350-H412**P:** P280-P281-P305+P351+P338-
P362-P405-P501a

Danger

PRODUCT NO.	PACKING	CONT. BOX
1200.0125	125 g	

Melting Point

111.0-114.0°C.

Residue after Ignition

max. 0.05%

Thioethylene Glycol

See Mercaptoethanol

**Thorium 1000 µg/ml**

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5785

▶ Th

Thorium (Th)

998-1002 µg/ml

M = 232.04 g/mol
NC CODE 3822 00 000
H: H272-H315-H319
P: P210-P220-P221-P280-
 P305+P351+P338-P362



Danger

PRODUCT NO.	PACKING	CONT. BOX
5785.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Thori

Thorium 1000 µg/ml

6954 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

PRODUCT NO.	PACKING	CONT. BOX
6954.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.



Warning

Thorium 10000 µg/ml

5750 (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

PRODUCT NO.	PACKING	CONT. BOX
5750.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.



Danger

Tin

9509 Shot / 'BAKER ANALYZED' / ACS

PRODUCT NO.	PACKING	CONT. BOX
9509.0500	500 g	

Exceeds ACS Specifications

Assay (by EDTA titrn.)	min. 99.9%
Antimony (Sb)	max. 0.02%
Arsenic (As)	max. 1 ppm
Copper (Cu)	max. 0.002%
Iron (Fe)	max. 0.01%
Lead (Pb)	max. 0.005%
Zinc (Zn)	max. 0.005%

Tin 1000 µg/ml

5786 (Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

PRODUCT NO.	PACKING	CONT. BOX
5786.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.



Warning

Tin 1000 µg/ml

6943 0.10% (w/v) / (Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

PRODUCT NO.	PACKING	CONT. BOX
6943.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.



Warning

Tin 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6824

▶ Sn	Tin (Sn)	995-1005 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 118.71 g/mol			6824.0100	100 ml	
NC CODE 3822 00 000					
H: H315-H319-H335+H336					
P: P261-P280-P304+P340-P305+P351+P338-P362-P405					
					
Warning					

Tin(II)Chloride in Hydrochloric Acid 5 mol/l.

Tin 10000 µg/ml

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER ANALYZED' / Plasma standard

5751

▶ Sn	Tin (Sn)	9980-10020 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 118.71 g/mol			5751.0100	100 ml	
NC CODE 3822 00 000					
H: H315-H319					
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362					
					
Warning					

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Tin(II) Chloride Dihydrate

'BAKER ANALYZED' / ACS

0325

▶ SnCl ₂ ·2H ₂ O		Exceeds ACS Specifications		PRODUCT		PACKING		CONT.			
M = 225.63 g/mol		Assay		98.0-103.0%				BOX			
CAS NO. 10025-69-1		Calcium (Ca)		max. 0.005%		0325.0100		100 g		6	
EINECS 231-868-0		Iron (Fe)		max. 0.003%		0325.0250		250 g		6	
NC CODE 2827 39 100		Lead (Pb)		max. 0.01%		0325.1000		1 kg		6	
H: H302-H315-H317-H319-H335		Potassium (K)		max. 0.005%							
P: P261-P280-P305+P351+P338-P362-P405-P501a		Sodium (Na)		max. 0.01%							
		Solubility in HCl		passes test							
Warning		Sulfate (SO ₄)		max. 0.002%							

Tin(II) Chloride Dihydrate

'BAKER ANALYZED' / Low in Mercury

0323

▶ SnCl ₂ ·2H ₂ O	Assay	min. 98%	PRODUCT NO.	PACKING	CONT. BOX
M = 225.63 g/mol	Ammonium (NH ₄)	max. 0.002%	0323.0250	250 g	
CAS NO. 10025-69-1	Arsenic (As)	max. 0.0001%	0323.2500	2.5 kg	
EINECS 231-868-0	Copper (Cu)	max. 0.001%			
NC CODE 2827 39 100	Iron (Fe)	max. 0.002%			
H: H302-H315-H317-H319-H335	Lead (Pb)	max. 0.005%			
P: P261-P280-P305+P351+P338-P362-P405-P501a	Mercury (Hg)	max. 0.01 ppm			
	Substances not Precipitated by H ₂ S (as SO ₄)	max. 0.05%			
Warning	Sulfate (SO ₄)	max. 0.002%			

Tin(II) Chloride Dihydrate

0520

'BAKER'

▶ SnCl₂·2H₂O

M = 225.63 g/mol

CAS NO. 10025-69-1

EINECS 231-868-0

NC CODE 2827 39 100

H: H302-H315-H317-H319-H335

P: P261-P280-P305+P351+P338-P362-P405-P501a



Warning

Assay

min. 95%

Iron (Fe)

max. 0.01%

Sulfate (SO₄)

max. 0.02%

Trace Impurities (in ppm):

Arsenic (As)

max. 2

PRODUCT

PACKING

CONT.

NO.

BOX

0520.1000

1 kg

Tin(IV) Chloride Pentahydrate

0322

Lump / 'BAKER ANALYZED'

▶ SnCl₄·5H₂O

M = 350.58 g/mol

CAS NO. 10026-06-9

EINECS 231-588-9

NC CODE 2827 39 100

EC INDEX NO. 50 001 00 5

UN/ID NO. 2440

ADR/RID 8 C2

IMDG 8/III

H: H315

P: P264-P280-P302+P352-P321-P332+P313-P362



Warning

Assay

99.0-102.0%

Arsenic (As)

max. 0.002%

Insoluble in HCl

max. 0.01%

Iron (Fe)

max. 0.003%

Sulfate (SO₄)

max. 0.002%

PRODUCT

PACKING

CONT.

NO.

BOX

0322.0500

500 g

Titanium 1000 µg/ml

5787

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED'

▶ Ti

M = 47.88 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-P305+P351+P338-P362



Danger

Plasma standard

Titanium (Ti)

998-1002 µg/ml

PRODUCT

PACKING

CONT.

NO.

BOX

5787.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Titanium 1000 µg/ml

6964

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Ti

M = 47.88 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362



Warning

Titanium (Ti)

998-1002 µg/ml

PRODUCT

PACKING

CONT.

NO.

BOX

6964.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Titanium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6825

▶ Ti

M = 47.88 g/mol

NC CODE 3822 00 000

H: H315-H319-H335+H336

P: P261-P280-P304+P340-
P305+P351+P338-P362-P405

Warning

Titanium (Ti)

995-1005 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

6825.0100

100 ml

Titanium(III)Chloride in Hydrochloric Acid 5 mol/l.

Titanium 10000 µg/ml

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5752

▶ Ti

M = 47.88 g/mol

NC CODE 3822 00 000

H: H72-H315-H319

P: P221-P210-P220-P280-
P305+P351+P338-P362

Danger

Titanium (Ti)

9980-10020 µg/ml

PRODUCT
NO.

PACKING

CONT.
BOX

5752.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Titanium Dioxide

See Titanium(IV) Oxide

Titanium(IV) Oxide

Powder / ULTREX Ultrapure Reagent

4962

▶ TiO₂

M = 79.90 g/mol

CAS NO. 13463-67-7

EINECS 236-675-5

NC CODE 2823 00 000

Actual Lot Analysis Lot No. B21421

Assay (based on loss on ignition) 99.9%

Identification passes test

Loss on Ignition at 1150°C 0.08%

Metallic Impurities in parts per million (µg/g):

Aluminium (Al) < 0.2

Calcium (Ca) 2

Chromium (Cr) 9

Copper (Cu) 8

Iron (Fe) 1

Lead (Pb) < 0.1

Magnesium (Mg) < 0.1

Manganese (Mn) < 0.1

Molybdenum (Mo) < 0.1

Nickel (Ni) < 0.2

Niobium (Nb) < 0.2

Silver (Ag) 13

Strontium (Sr) < 0.2

Vanadium (V) 4

Zirconium (Zr) < 0.2

Non-Metallic Impurities in parts per million (µg/g):

Chloride (Cl) < 10

Silicon (Si) 1

PRODUCT
NO.

PACKING

CONT.
BOX

4962.0100

100 g Glass

For Laboratory, Research or Manufacturing Use.



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T
U
V
W
X
Y
Z

Toluene

9336

'BAKER ULTRA RESI-ANALYZED' / For Organic Residue Analysis



M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 000

EC INDEX NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H361d-H373P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Assay (by GC) (corrected for water)	min. 99.7%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by H ₂ SO ₄	passes test
Water (by KF, coulometric)	max. 0.03%

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml) max. 10

FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml) max. 10

PRODUCT NO.	PACKING	CONT. BOX
9336.1000	1 l	

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Toluene

9351

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography



M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 000

EC INDEX NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H361d-H373P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Assay (by GC)	min. 99.7%
Substances Darkened by H ₂ SO ₄	passes test

Maximum Limits of Impurities:

Residue after Evaporation (in ppm)	3
Water (H ₂ O) (by Karl Fischer titrn.)	0.02%

Physical Data (not specifications):

Density (g/ml) at 20°C 0.867

Ultraviolet Absorbance (1.00-cm path vs water):

at 288 nm	max. 0.40
at 300 nm	max. 0.10
at 350 nm	max. 0.01
UV Cut-off, nm	max. 285

PRODUCT NO.	PACKING	CONT. BOX
9351.1000	1 l	6

9351.5000 5 l EcoTainer

EcoTainer, the metal solvent can for more safety in the lab.

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

Toluene

8714

PHOTREX Reagent / For Spectrophotometry and Liquid Scintillation Counting / ACS



M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 000

EC INDEX NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H361d-H373P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Meets ACS Specifications

Assay (by GC)	min. 99.5%
Color (APHA)	max. 5
Counting Efficiency for ³ H in Prepared Cocktail	act. value reported
Residue after Evaporation	max. 0.0005%
Substances Darkened by H ₂ SO ₄	passes test
Sulfur Compounds (as S)	max. 0.003%
Water (by KF, coulometric)	max. 0.02%

Optical Absorbance (1-cm path vs water):

at 286 nm	max. 1.00
at 288 nm	max. 0.50
at 293 nm	max. 0.20
at 300 nm	max. 0.10
at 310 nm	max. 0.05
at 335 nm	max. 0.02
at 350-400 nm	max. 0.01

Product Information (not specifications):

Boiling Point (typical)	110.6°C
Windows of Infrared Transmittance (0.1-mm path, 50-100%T), μm:	passes test

PRODUCT NO.	PACKING	CONT. BOX
8714.0500	500 ml	

Toluene

BakerDRY / Low Water Solvent / ACS

9364

► C₆H₅CH₃

M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 000

EC INDEX NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H361d-H373P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Meets ACS Specifications

Assay (C₆H₅CH₃) (by GC, corrected for water) min. 99.5%

Color (APHA) max. 10

Residue after Evaporation max. 1 ppm

Substances Darkened by H₂SO₄ passes test

Sulfur Compounds (as S) max. 0.003%

Water (by KF, coulometric) max. 10 ppm

Product Information (not specifications):

Boiling Point (typical) 111°C

PRODUCT NO.	PACKING	CONT. BOX
9364.1000	1 l	

Toluene

'BAKER ANALYZED' / ACS

8077

► C₆H₅CH₃

M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 000

EC INDEX NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H361d-H373P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Exceeds ACS Specifications

Assay (by GC) min. 99.5%

Benzene max. 0.1%

Color (APHA) max. 10

Residue after Evaporation max. 0.001%

Substances Darkened by H₂SO₄ passes test

Sulfur Compounds (as S) max. 0.003%

Water (H₂O) max. 0.03%

Trace Impurities (in ppm):

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8077.1000	1 l	6
8077.2500	2.5 l	4
8077.5000	5 l EcoTainer	4
8077.9025	25 l	
8077.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.
For safe handling of 25 l tin cans, see Self-closing tap.

Toluene

'BAKER'

8078

► C₆H₅CH₃

M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 000

EC INDEX NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H361d-H373P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Assay (by GC)	min. 98%
Boiling Range	109-112°C
Residue after Evaporation	max. 0.002%
Water (H ₂ O)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
8078.2500	2.5 l	4
8078.9200	200 l	

Toluene

3411 99% / HISTO GRADE

▶ C₆H₅CH₃

M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 000

EC INDEX NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

H: H225-H304-H315-H336-
H361d-H373P: P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Benzene

max. 0.02%

PRODUCT
NO.

PACKING

CONT.
BOX

3411.9010

10 l

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Trace Metal Standard I

6031-01 (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

NC CODE 3822 00 000

UN/ID NO. 3264

ADR/RID 8,17c

IMDG 8/III

H: H314

P: P260-P280-P303+P361+P353-
P305+P351+P338-P310-P405

Danger

Elemental Concent (µg/ml):

Aluminium (Al)	500
Arsenic (As)	100
Beryllium (Be)	100
Cadmium (Cd)	25
Chromium (Cr)	100
Cobalt (Co)	100
Copper (Cu)	100
Iron (Fe)	100
Lead (Pb)	100
Manganese (Mn)	100
Mercury (Hg)	5
Nickel (Ni)	100
Selenium (Se)	25
Vanadium (V)	250
Zinc (Zn)	100

PRODUCT

PACKING

CONT.

NO.

BOX

6031-01

100 ml

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

Trace Metal Standard III

6033-01 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-
P332+P313-P362

Warning

Elemental Concent (µg/ml):

Barium (Ba)	500
Calcium (Ca)	500
Magnesium (Mg)	100
Molybdenum (Mo)	500
Potassium (K)	100
Sodium (Na)	500

PRODUCT

PACKING

CONT.

NO.

BOX

6033-01

100 ml

For use in EPA SW-846 Methods 6010 and 200.7

Traceable to NIST.

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Tributyl Phosphate

'BAKER'

W432-07

▶ (CH₃CH₂CH₂CH₂O)₃PO

M = 266.32 g/mol

1 l = 0.98 kg

FLASHPOINT 146 °C

CAS NO. 126-73-8

EINECS 204-800-2

NC CODE 2919 00 100

EC INDEX NO. 15 014 00 2

H: H302-H315-H351

P: P280-P281-P301+P312-P362-

P405-P501a



Warning

Meets Reagent Specifications for testing

USP/NF monographs

Identification (by IR)	passes test
Refractive Index at 25°C, n _D ²⁰	1.4205-1.4225

PRODUCT NO.	PACKING	CONT. BOX
W432-07	500 ml Glass	

Trichloroacetaldehyde Hydrate

See Chloral Hydrate

Trichloroacetic Acid

'BAKER ANALYZED' / For Turbidimetry / ACS

0344

▶ Cl₃CCOOH

M = 163.39 g/mol

CAS NO. 76-03-9

EINECS 200-927-2

NC CODE 2915 40 000

EC INDEX NO. 607 004 00 7

UN/ID NO. 1839

ADR/RID 8 C4

IMDG 8/II

H: H314-H400-H410

P: P260-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Exceeds ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Clarity of Solution	passes test
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Nitrate (NO ₃)	max. 0.002%
Residue after Ignition	max. 0.02%
Substances Darkened by H ₂ SO ₄	passes test
Sulfate (SO ₄)	max. 0.02%

Trace Impurities (in ppm):

Phosphate (PO ₄)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0344.0250	250 g	6
0344.1000	1 kg	6

Trichloroacetic Acid

crystal / 'BAKER ANALYZED' / ACS

0414-04

▶ Cl₃CCOOH

M = 163.39 g/mol

CAS NO. 76-03-9

EINECS 200-927-2

NC CODE 2915 40 000

EC INDEX NO. 607 004 00 7

UN/ID NO. 1839

ADR/RID 8 C4

IMDG 8/II

H: H314-H400-H410

P: P260-P303+P361+P353-

P305+P351+P338-P310-P405-

P501a



Danger

Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs

Assay (acidimetric)	min. 99.0%
Chloride (Cl)	max. 0.002%
Clarity of Solution	passes test
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Nitrate (NO ₃)	max. 0.002%
Phosphate (as PO ₄)	max. 5 ppm
Residue after Ignition	max. 0.03%
Substances Darkened by H ₂ SO ₄	passes test
Sulfate (SO ₄)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0414-04	125 g Glass	

IMPORTANT: Store or transport at or below 30°C (86°F).

1,2,4-Trichlorobenzene

8444 'BAKER ANALYZED' / For use in Gel Permeation Chromatography

▶ $C_6H_3Cl_3$

M = 181.45 g/mol

CAS NO. 120-82-1

EINECS 204-428-0

NC CODE 2903 69 900

UN/ID NO. 2321

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H400-H410

P: P273-P280-P301+P312-
P332+P313-P362-P501a

Warning

Assay (by GC)	min. 99.0%
Residue after Evaporation (in ppm)	max. 5 ppm
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.01%

Physical Data (not specifications):

Boiling Point	213.5°C
Density (g/ml) at 20°C	1.454
Refractive Index n _D ²⁰	1.572
Vapor Pressure at 100°C	20 mm Hg

Ultraviolet Absorbance (1.00-cm path vs water):

at 350 nm	max. 0.15
at 375 nm	max. 0.05
at 400 nm	max. 0.01
UV Cut-off, nm	max. 310

PRODUCT NO.	PACKING	CONT. BOX
9444.2500	2.5 l	4

1,2,4-Trichlorobenzene

8430 'BAKER'

▶ $C_6H_3Cl_3$

M = 181.45 g/mol

CAS NO. 120-82-1

EINECS 204-428-0

NC CODE 2903 69 900

EC INDEX NO. 602 087 00 6

UN/ID NO. 2321

ADR/RID 6.1 T1

IMDG 6.1/III

H: H302-H315-H400-H410

P: P273-P280-P301+P312-
P332+P313-P362-P501a

Warning

Assay (by GC)	min. 99%

PRODUCT NO.	PACKING	CONT. BOX

8430.2500 2.5 l

8430.9025 25 l

For safe handling of 25 l tin cans, see Self-closing tap.



Trichloromethane

See Chloroform

Triethanolamine

7078 'BAKER ANALYZED'

▶ (HOCH₂CH₂)₃N

M = 149.19 g/mol

1 l = 1.12 kg

FLASHPOINT 179 °C

CAS NO. 102-71-6

EINECS 203-049-8

NC CODE 2922 13 100

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Assay	99.0-103.0%
Appearance of solution	passes test
Density (g/ml) at 25°C	1.117-1.125
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iron (Fe)	max. 5 ppm
Related substances (detected by capillary column)	passes test
Sulfated Ash	max. 0.005%
Water (H ₂ O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX

7078.1000 1 l

7078.2500 2.5 l

7078.9025 25 l

For safe handling of 25 l tin cans, see Self-closing tap.

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PERFORMANCE MATERIALS

Triethylamine

'BAKER'

8079

▶ (C₂H₅)₃N

M = 101.19 g/mol

1 l = 0.73 kg

FLASHPOINT -17 °C

CAS NO. 121-44-8

EINECS 204-469-4

NC CODE 2921 19 100

EC INDEX NO. 612 004 00 5

UN/ID NO. 1296

ADR/RID 3 FC

IMDG 3/II

H: H225-H302-H312-H314-H332

P: P210-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 98.0%
Boiling Point	88-90°C
Color (APHA)	max. 15
Density (g/ml) at 20°C	0.725-0.734
Water (H ₂ O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
8079.1000	1 l	6

Trifluoroacetic Acid

BAKER ANALYZED LC-MS Reagent

9810

▶ F₃CCOOH

M = 114.03 g/mol

1 l = 1.49 kg

CAS NO. 76-05-1

EINECS 200-929-3

NC CODE 2915 90 800

EC INDEX NO. 607 091 00 1

UN/ID NO. 2699

ADR/RID 8 C3

IMDG 8/I

H: H314-H332-H412

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 99.5%
Residue after Evaporation	max. 10 ppm

LC-Gradient with Diode Array Detection (a.u.),

0.1% (v/v) aqueous solution:

at 220 nm	max. 0.002
at 254 nm	max. 0.002

LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z),

0.1% (v/v) aqueous solution:

Positive ESI-MS Sensitive Impurities (as Reserpine)	max. 50 ppb

Trace Impurities (in ppb), 0.1% (v/v) aqueous solution:

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

Ultraviolet Absorbance, 0.1% (v/v) aqueous solution

(1.00-path vs water):

at 230 nm	max. 0.15
at 254 nm	max. 0.01
UV Cut-off, nm	max. 210

PRODUCT NO.	PACKING	CONT. BOX
9810.0002AM	1 ml Amp. x 2	
9810.0010AM	1 ml Amp. x 10	

Element concentrations are at time of lot release.

Trifluoroacetic Acid

'BAKER HPLC ANALYZED'

9470

▶ F₃CCOOH

M = 114.03 g/mol

1 l = 1.49 kg

CAS NO. 76-05-1

EINECS 200-929-3

NC CODE 2915 90 800

EC INDEX NO. 607 091 00 1

UN/ID NO. 2699

ADR/RID 8 C3

IMDG 8/I

H: H314-H332-H412

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 99.5%
Heavy Metals (as Pb)	max. 10 ppm
Residue after Evaporation	max. 10 ppm

Gradient Elution Test (a.u.):

at 215 nm max. 0.05

Trace Impurities (in ppb), 0.1% (v/v) aqueous solution:

Iron (Fe) max. 5

Ultraviolet Absorbance, 0.1% (v/v) aqueous solution

(1.00-path vs water):

at 230 nm	max. 0.15
at 254 nm	max. 0.01
UV Cut-off, nm	max. 210

PRODUCT NO.	PACKING	CONT. BOX
9470.0010	1 ml x 10	
9470.0070	70 ml	
9470.1000	1 l	

Gradient tested for HPLC Peptide and Protein Analysis.

Trifluoroacetic Acid

7079 'BAKER ANALYZED'

▶ F₃CCOOH

M = 114.03 g/mol

1 l = 1.49 kg

CAS NO. 76-05-1

EINECS 200-929-3

NC CODE 2915 90 800

EC INDEX NO. 607 091 00 1

UN/ID NO. 2699

ADR/RID 8 C3

IMDG 8/I

H: H314-H332-H412

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 99.0%
Heavy Metals (as Pb)	max. 0.001%
Residue after Evaporation	max. 0.01%

Trace Impurities (in ppm):

Iron (Fe)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7079.0500	500 ml	

Trifluoroacetic Acid

9838 0.1% (v/v) / BAKER ANALYZED LC-MS Reagent

NC CODE 2915 90 800

Assay	0.095-0.105% (v/v)
Residue after Evaporation	max. 5 ppm

Gradient Elution Test (a.u.):

at 220 nm	max. 0.002
at 254 nm	max. 0.002

LC-Gradient-MS Suitability Test (TIC, 100 to 2000 m/z)

Positive ESI-MS Sensitive Impurities
(as Reserpine) max. 50 ng/ml

Product Information (not specifications):

Density (g/ml) at 20°C 1.01

Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

Ultraviolet Absorbance (1.00-cm path vs water):

at 240 nm	max. 0.1
at 260 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9838.2500	2.5 l	4

Element concentrations are at time of lot release.

Trifluoroacetic Acid in Acetonitrile

9837 0.1% (v/v) / BAKER ANALYZED LC-MS Reagent

FLASHPOINT 5 °C

UN/ID NO. 1648

ADR/RID 3F1

H: H225-H312-H332-H319

P: P210-P241-P261-P280-
P303+P361+P353-
P305+P351+P338

Danger

Assay	0.095-0.105% (v/v)
Residue after Evaporation	max. 5 ppm
Water (H ₂ O)	max. 0.02%

Gradient Elution Test (a.u.):

at 220 nm	max. 0.002
at 254 nm	max. 0.002

LC-Gradient-MS Suitability Test (TIC, 100 to 2000 m/z)

Positive ESI-MS Sensitive Impurities
(as Reserpine) max. 50 ng/ml

Product Information (not specifications):

Density (g/ml) at 20°C 0.78

Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

Ultraviolet Absorbance (1.00-cm path vs water):

at 260 nm	max. 0.1
at 280 nm	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
9837.2500	2.5 l	4

Element concentrations are at time of lot release.

1,2,3-Trihydroxybenzene

See Pyrogallol

2,2,4-Trimethylpentane

'BAKER RESI-ANALYZED' / For Organic Residue Analysis

9335

► $(\text{CH}_3)_3\text{CCH}_2\text{CH}(\text{CH}_3)_2$
M = 114.23 g/mol
1 l = 0.70 kg
FLASHPOINT -12 °C
CAS NO. 540-84-1
EINECS 208-759-1
NC CODE 2901 10 000
EC INDEX NO. 601 009 00 8
UN/ID NO. 1262
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H400-H410
P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Assay (by GC) min. 99.8%
 Color (APHA) max. 10
 Residue after Evaporation max. 1 ppm
 Substances Darkened by H_2SO_4 passes test
 Water (H_2O) (by Coulometry) max. 0.03%

ECD Sensitive Impurities (as Heptachlor Epoxide):

Single Impurity Peak (pg/ml) max. 10

FID-Sensitive Impurities (as 2-Octanol):

Single Impurity Peak (ng/ml) max. 5

Neat solvent front characterization: ECD-Sensitive**Impurities (as Ethylene Dibromide):**

Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9335.1000	1 l	6
9335.4000	4 l Glass	4

2,2,4-Trimethylpentane

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

9480

► $(\text{CH}_3)_3\text{CCH}_2\text{CH}(\text{CH}_3)_2$
M = 114.23 g/mol
1 l = 0.69 kg
FLASHPOINT -12 °C
CAS NO. 540-84-1
EINECS 208-759-1
NC CODE 2901 10 000
EC INDEX NO. 601 009 00 8
UN/ID NO. 1262
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H400-H410
P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Assay (by GC) min. 99.8%
 Residue after Evaporation (in ppm) max. 2
 Water (H_2O) (by Karl Fischer titrn.) max. 0.01%
 Water Soluble Titration Acid (meq/g) max. 0.0003

Physical Data (not specifications):

Density (g/ml) at 20°C 0.690

Ultraviolet Absorbance (1.00-cm path vs water):

at 225 nm max. 0.10
 at 254 nm max. 0.015
 at 280 nm max. 0.01
 at 350 nm max. 0.01
 UV Cut-off, nm max. 205

PRODUCT NO.	PACKING	CONT. BOX
9480.1000	1 l	6
9480.2500	2.5 l	4

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

2,2,4-Trimethylpentane

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

8715

► $(\text{CH}_3)_3\text{CCH}_2\text{CH}(\text{CH}_3)_2$
M = 114.23 g/mol
1 l = 0.69 kg
FLASHPOINT -12 °C
CAS NO. 540-84-1
EINECS 208-759-1
NC CODE 2901 10 000
EC INDEX NO. 601 009 00 8
UN/ID NO. 1262
ADR/RID 3 F1
IMDG 3/II
H: H225-H304-H315-H336-H400-H410
P: P210-P241-P301+P310-P303+P361+P353-P405-P501a



Danger

Exceeds ACS Specifications

Assay (by GC) min. 99.0%
 Color (APHA) max. 10
 Residue after Evaporation max. 5 ppm
 Sulfur Compounds (as S) max. 0.005%
 Water Soluble Titration Acid (meq/g) max. 0.0003

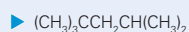
Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm max. 1.0
 at 220 nm max. 0.20
 at 230 nm max. 0.10
 at 240 nm max. 0.04
 at 250 - 400nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8715.1000	1 l	6
8715.2500	2.5 l	4

2,2,4-Trimethylpentane

8217 'BAKER ANALYZED' / ACS

**M** = 114.23 g/mol**1 l** = 0.69 kg**FLASHPOINT** -12 °C**CAS NO.** 540-84-1**EINECS** 208-759-1**NC CODE** 2901 10 000**EC INDEX NO.** 601 009 00 8**UN/ID NO.** 1262**ADR/RID** 3 F1**IMDG** 3/II**H:** H225-H304-H315-H336-
H400-H410**P:** P210-P241-P301+P310-
P303+P361+P353-P405-P501a

Danger

Exceeds ACS Specifications

Assay (by GC)	min. 99.0%
Color (APHA)	max. 10
Density (g/ml) at 25°C	max. 0.690
Residue after Evaporation	max. 0.001%
Sulfur Compounds (as S)	max. 0.005%
Water Soluble Titrable Acid (meq/g)	max. 0.0003

Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

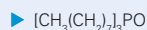
PRODUCT NO.	PACKING	CONT. BOX
8217.1000	1 l	6
8217.2500	2.5 l	4

▶ 1,3,7-Trimethylxanthine

See Caffeine

▶ Trioctylphosphine Oxide

1462 'BAKER'

**M** = 386.65 g/mol**CAS NO.** 78-50-2**EINECS** 201-121-3**NC CODE** 2931 00 950**H:** H314-H400-H410**P:** P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Melting Point 50-55°C.

PRODUCT NO.	PACKING	CONT. BOX
1462.0100	100 g	

▶ Tripotassium Phosphate

See Potassium Phosphaten-Hydrate

A NEW GENERATION OF DISCOVERY.

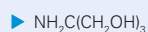
See the whole story online at www.avantormaterials.com

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PERFORMANCE MATERIALS

Tris(hydroxymethyl)aminomethane

'BAKER ULTRAPURE BIOREAGENT' / For Molecular Biology Applications

4109



M = 121.14 g/mol

CAS NO. 77-86-1

EINECS 201-064-4

NC CODE 2922 19 800

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Assay	99.0-101.0%
Assay (dried basis)	min. 99.9%
Appearance (white crystals)	passes test
DNase Activity	none detected
Identification	passes test
Insoluble Matter	max. 0.005%
pH of 0.1 M Solution at 25°C	10.0-11.0
Protease Activity	none detected
RNase Activity	none detected
Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.3%
.	
Description	passes test
Heavy Metals (as Pb)	max. 0.001%
Loss on Drying	max. 1.0%
Melting Range	168-172°C
Organic Volatile Impurities (1)	conforms to USP/NF
pH (1 in 20)	10.0-11.5
Residue after Ignition	max. 0.1%
Absorbance of a 1 M Solution, Maximum (1-cm path vs water):	
at 260 nm	0.06
at 280 nm	0.06
at 400 nm	0.01
Trace Impurities (in ppm):	
Arsenic (As)	max. 1
Calcium (Ca)	max. 1
Copper (Cu)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 1
Magnesium (Mg)	max. 1
Manganese (Mn)	max. 1

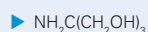
PRODUCT NO.	PACKING	CONT. BOX
4109.0500	500 g	
4109.1000	1 kg	
4109.5000	5 kg	
4109.9012	12 kg	

Material also meets the chemical specifications of Tromethamine, U.S.P.

Tris(hydroxymethyl)aminomethane

'BAKER ANALYZED' / ACS

1414



M = 121.14 g/mol

CAS NO. 77-86-1

EINECS 201-064-4

NC CODE 2922 19 800

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Meets ACS Specifications

Assay (dry basis)	99.8-100.1%
Absorbance	passes test
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Water (H ₂ O)	max. 2%

PRODUCT NO.	PACKING	CONT. BOX
1414.0500	500 g	6
1414.1000	1 kg	6
1414.9050	50 kg	

Tris(hydroxymethyl)aminomethane

'BAKER'

1533



M = 121.14 g/mol

CAS NO. 77-86-1

EINECS 201-064-4

NC CODE 2922 19 800

H: H315-H319

P: P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Assay	min. 99.5%

PRODUCT NO.	PACKING	CONT. BOX
1533.1000	1 kg	

Tris(hydroxymethyl)aminomethane hydrochloride

4103

'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology applications

▶ $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3\cdot\text{HCl}$ **M** = 157.60 g/mol**CAS NO.** 1185-53-1**EINECS** 201-064-4**NC CODE** 2922 19 900**H:** H315-H319**P:** P264-P280-P305+P351+P338-
P332+P313-P337+P313-P362

Warning

Assay (dried basis) min. 99.0%

Appearance passes test

DNase Activity none detected

Protease Activity none detected

RNase Activity none detected

Water (H_2O) (by Karl Fischer titrn.) max. 0.5%**Absorbance of a 1 M Solution,****Maximum (1-cm path vs water):**

at 260 nm 0.06

at 280 nm 0.06

at 400 nm 0.01

Trace Impurities (in ppm):

Calcium (Ca) max. 1

Copper (Cu) max. 1

Iron (Fe) max. 1

Lead (Pb) max. 1

Magnesium (Mg) max. 1

PRODUCT NO.	PACKING	CONT. BOX
4103.0500	500 g	
4103.1000	1 kg	
4103.5000	5 kg	

Triton X100

2838

'BAKER'

M = 646.87 g/mol**1 l** = 1.00 kg**CAS NO.** 9002-93-1**NC CODE** 3402 13 000**H:** H302-H312-H318**P:** P280-P301+P312-
P305+P351+P338-P310-P312-
P501a

Danger

Color (APHA) max. 60

Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
2838.0500	500 ml	
2838.5000	5 l	

Alkylaryl polyether alcohol.

Tungstophosphoric Acid n-Hydrate

2891-04

crystal / 'BAKER ANALYZED'

▶ $\text{P}_2\text{O}_5 \cdot 24\text{WO}_3 \cdot n\text{H}_2\text{O}$ **CAS NO.** 12501-23-4**EINECS** 215-682-7**NC CODE** 2811 19 800**UN/ID NO.** 3260**ADR/RID** 8 C2**IMDG** 8/III**H:** H314**P:** P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets Reagent Specifications for testing USP/NF monographsAmmonium (NH_4) max. 0.005%

Chloride (Cl) max. 0.03%

Heavy Metals (as Pb) max. 0.005%

Insoluble Matter max. 0.01%

Iron (Fe) max. 0.003%

Nitrate (NO_3) max. 0.005%Sulfate (SO_4) max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
2891-04	125 g Glass	

Tween 20

7374

'BAKER'

1 l = 1.11 kg**CAS NO.** 9005-64-5**NC CODE** 3402 13 000

PRODUCT NO.	PACKING	CONT. BOX
7374.1000	1 l	

UltraClear

HISTO GRADE / Cleaning agent for use in Histology and Cytology

3905

FLASHPOINT	56 C °C	Aromates (as Xylene)	max. 60 ppm
CAS NO.	90622-57-4		
EINECS	292-459-0		
NC CODE	2710 11 250		
UN/ID NO.	3295		
ADR/RID	3		
IMDG	3295/III		
H:	H304-H226-H413-EUH066		
P:	P210-P241-P280-P301+P310-P303+P361+P353-P405		



Danger

PRODUCT NO.	PACKING	CONT. BOX
3905.2500PE	2.5 l HDPE	
3905.5000PE	5 l HDPE	
3905.9010PE	10 l HDPE	
3905.9200	200 l	

A biodegradable paraffin clearing agent.

Contains Hydrocarbons.

UltraKitt

HISTO GRADE

3921

NC CODE	3822 00 000	<i>For Use in Histology and Cytology</i>
H:	EUH066-EUH208-H413	
P:	P273-P501a	

PRODUCT NO.	PACKING	CONT. BOX
3921.0500GL	500 ml Glass	
3921.0600	100 ml Glass x 6	

Mounting medium for coverslipping of slides.

UltraPar (54-56°C)

HISTO GRADE

3925

CAS NO.	8002-74-2	<i>Paraffin for histology</i>
NC CODE	271 22 010	

PRODUCT NO.	PACKING	CONT. BOX
3925.5000	5 kg	

Uranin

See Fluorescein Disodium Salt

Uranium 1000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5788

► U	Uranium (U)	998-1002 µg/ml
M =	238.03 g/mol	
NC CODE	3822 00 000	
H:	20/22-36/38	
P:	26-36	

PRODUCT NO.	PACKING	CONT. BOX
5788.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Uranium 10000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5753

► U	Uranium (U)	9980-10020 µg/ml
M =	238.03 g/mol	
NC CODE	3822 00 000	
H:	23/25-33-36/38	
P:	26-36/39-45	

PRODUCT NO.	PACKING	CONT. BOX
5753.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Urea

Urea

4111 'BAKER ULTRAPURE BIOREAGENT' / For Protein Solubilization and Denaturation

▶ NH_2CONH_2	Assay (NH_2CONH_2)	min. 99.5%
M = 60.06 g/mol	Appearance	passes test
CAS NO. 57-13-6	Biuret	max. 0.01%
EINECS 200-315-5	Conductivity of 8.5M Solution, $\mu\text{mho/cm}$	max. 30
NC CODE 3102 10 100	Cyanate (CNO)	none detected
	DNase Activity	none detected
	Insoluble Matter	max. 0.005%
	Protease Activity	none detected
	RNase Activity	none detected
	Water (H_2O) (by Karl Fischer titrn.)	max. 0.5%
	Absorbance of a 5M Solution (1-cm path vs water):	
	at 260 nm	max. 0.05
	at 280 nm	max. 0.03

Trace Impurities (in ppm):

Chloride (Cl)	max. 1
Copper (Cu)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
4111.0500	500 g	
4111.2500	2.5 kg	

Urea

0345 'BAKER ANALYZED' / ACS

▶ NH_2CONH_2	Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs	
M = 60.06 g/mol	Assay	99.0-100.5%
CAS NO. 57-13-6	Chloride (Cl)	max. 5 ppm
EINECS 200-315-5	Heavy Metals (as Pb)	max. 0.001%
NC CODE 3102 10 100	Insoluble Matter	max. 0.01%
	Iron (Fe)	max. 0.001%
	Melting Point	132-135°C.
	Residue after Ignition	max. 0.01%
	Sulfate (SO_4)	max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
0345.1000	1 kg	6
0345.9025	25 kg	

Urea

0346 'BAKER'

▶ NH_2CONH_2	Chloride (Cl)	max. 0.007%
M = 60.06 g/mol	Heavy Metals (as Pb)	max. 0.002%
CAS NO. 57-13-6	Insoluble in Alcohol	max. 0.04%
EINECS 200-315-5	Melting Range	132-135°C
NC CODE 3102 10 100	Residue on Ignition	max. 0.1%
	Sulfate (SO_4)	max. 0.010%

PRODUCT NO.	PACKING	CONT. BOX
0346.1000	1 kg	6

Vanadium 1000 $\mu\text{g/ml}$

5789 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ V	Vanadium (V)	998-1002 $\mu\text{g/ml}$
M = 50.94 g/mol		
1 l = 1.03 kg		
NC CODE 3822 00 000		
EC INDEX NO. 7 004 00 1		
H: H315-H319		
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362		



Warning

PRODUCT NO.	PACKING	CONT. BOX
5789.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within $\pm 0.2\%$. Typically 1000 $\mu\text{g/ml}$.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Vanadium 1000 $\mu\text{g/ml}$

6945 (Matrix: 0.5 M sulfuric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ V	Vanadium (V)	998-1002 $\mu\text{g/ml}$
M = 50.94 g/mol		
NC CODE 3822 00 000		
H: H315-H319		
P: P264-P280-P305+P351+P338-P332+P313-P337+P313-P362		



Warning

PRODUCT NO.	PACKING	CONT. BOX
6945.0100	100 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Vanadium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6826

▶ V

M = 50.94 g/mol
 NC CODE 3822 00 000
 H: EUH210

Vanadium (V)

998-1002 µg/ml

**PRODUCT
NO.**
PACKING
**CONT.
BOX**

6826.0100

100 ml

Vanadium(V)Oxide in Sulfuric Acid 0.5 mol/l.

Vanadium 10000 µg/ml

(Matrix: 10% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5754

▶ V

M = 50.94 g/mol
 1 l = 1.03 kg
 NC CODE 3822 00 000
 EC INDEX NO. 7 004 00 1
 H: H272-H314
 P: P210-P221-P303+P361+P353-
 P305+P351+P338-P310-P405



Danger

Vanadium (V)

9980-10020 µg/ml

**PRODUCT
NO.**
PACKING
**CONT.
BOX**

5754.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Vanadium(V) Oxide

'BAKER ANALYZED'

1217

▶ V₂O₅

M = 181.88 g/mol
 CAS NO. 1314-62-1
 EINECS 215-239-8
 NC CODE 2825 30 000
 EC INDEX NO. 23 001 00 8
 UN/ID NO. 2862
 ADR/RID 6.1 T5
 IMDG 6.1/II
 H: H302-H332-H335-H341-H361d-
 H372-H411
 P: P260-P261-P281-P301+P312-
 P405-P501a



Danger

Assay

min. 99.5%

Iron (Fe)

max. 0.03%

Potassium (K)

max. 0.05%

Sodium (Na)

max. 0.02%

**PRODUCT
NO.**
PACKING
**CONT.
BOX**

1217.0100

100 g

Vanadium Pentoxide

See Vanadium(V) Oxide

Victoria Green

See Malachite Green Oxalate

Vitamin C

See Ascorbic Acid

WWW.AVANTORMATERIALS.COM



Water

4219

'BAKER ULTRA RESI-ANALYZED' / Suitable for environmental inorganic and organic trace analysis

▶ H₂O

M = 18.01 g/mol
CAS NO. 7732-18-5
EINECS 231-791-2
NC CODE 2851 00 100

Filtration Test	passes test
Residue after Evaporation	max. 2 ppm
EPA Contract Lab Program:	
Inorganic Target Analytes (below CQRL)	passes test
For Use in EPA Methods:	
Drinking Water	500 series
Inorganic Non-Metals	300 series
Metals	200 series
Solid Waste	846 series
Waste Water	600 series
Volatile Organic Trace Analysis: Gas Chromatography with Purge and Trap concentration (EPA Contract Required Quantitation Limit-CRQL):	
Electroconductivity Detection (ECLD),	
Below CRQL	passes test
Photoionization Detection (PID), Below CRQL	passes test
Total Organic Carbon (100 ppb max.)	passes test

PRODUCT NO.	PACKING	CONT. BOX
4219.4000	4 l Glass	4

Filtered through a 0.2 micron filter.

Resistivity during production is 10 megohm-cm minimum at 25°C.

Water

6906

ULTREX II Ultrapure Reagent

▶ H₂O

M = 18.01 g/mol
CAS NO. 7732-18-5
EINECS 231-791-2
NC CODE 2851 00 100

Trace Impurities (in ppt) (pg/g):		Palladium (Pd)		max. 10
Aluminium (Al)	max. 20	Platinum (Pt)		max. 10
Antimony (Sb)	max. 10	Potassium (K)		max. 10
Arsenic (As)	max. 10	Praseodymium (Pr)		max. 10
Barium (Ba)	max. 10	Rhenium (Re)		max. 10
Beryllium (Be)	max. 10	Rhodium (Rh)		max. 10
Bismuth (Bi)	max. 10	Rubidium (Rb)		max. 10
Boron (B)	max. 50	Ruthenium (Ru)		max. 10
Cadmium (Cd)	max. 10	Samarium (Sm)		max. 10
Calcium (Ca)	max. 20	Scandium (Sc)		max. 10
Cerium (Ce)	max. 10	Selenium (Se)		max. 50
Cesium (Cs)	max. 10	Silver (Ag)		max. 10
Chromium (Cr)	max. 10	Sodium (Na)		max. 10
Cobalt (Co)	max. 10	Strontium (Sr)		max. 10
Copper (Cu)	max. 10	Tantalum (Ta)		max. 10
Dysprosium (Dy)	max. 1	Tellurium (Te)		max. 1
Erbium (Er)	max. 1	Terbium (Tb)		max. 10
Europium (Eu)	max. 1	Thallium (Tl)		max. 10
Gadolinium (Gd)	max. 1	Thorium (Th)		max. 10
Gallium (Ga)	max. 10	Thulium (Tm)		max. 10
Germanium (Ge)	max. 10	Tin (Sn)		max. 50
Gold (Au)	max. 10	Titanium (Ti)		max. 10
Hafnium (Hf)	max. 1	Tungsten (W)		max. 10
Holmium (Ho)	max. 1	Vanadium (V)		max. 10
Indium (In)	max. 1	Ytterbium (Yb)		max. 10
Iron (Fe)	max. 20	Yttrium (Y)		max. 1
Lanthanum (La)	max. 1	Zinc (Zn)		max. 10
Lead (Pb)	max. 10	Zirconium (Zr)		max. 10
Lithium (Li)	max. 10	Trace Impurities in ppb (ng/g):		
Lutetium (Lu)	max. 1	Chloride (Cl)		max. 100
Magnesium (Mg)	max. 10	Phosphate (PO ₄)		max. 100
Manganese (Mn)	max. 10	Sulfate (SO ₄)		max. 200
Mercury (Hg)	max. 20			
Molybdenum (Mo)	max. 10	PRODUCT	PACKING	CONT.
Neodymium (Nd)	max. 1	NO.		BOX
Nickel (Ni)	max. 10	6906.1000	1 I PE	
Niobium (Nb)	max. 10			

PRODUCT NO.	PACKING	CONT. BOX
6906.1000	1 l PE	

Water

'BAKER ANALYZED ULTRA LC-MS' / For instrument calibration, method development and validation

9823

▶ H₂O

M = 18.01 g/mol
1 l = 1 kg
CAS NO. 7732-18-5
EINECS 231-791-2
NC CODE 2851 00 100

Residue after Evaporation max. 1 ppm
LC-Gradient-Diode Array Detection (a.u.), test solution is modified with 0.1%(v/v) formic acid:
 at 254 nm max. 0.001
LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:
 Positive ESI-MS Sensitive Impurities
 (as Reserpine) max. 50 ng/ml
Product Information (not specifications):
 Density (g/ml) at 20°C 1.00
Trace Impurities (in ppb):
 Aluminium (Al) max. 50
 Calcium (Ca) max. 50
 Iron (Fe) max. 50
 Magnesium (Mg) max. 50
 Potassium (K) max. 50
 Sodium (Na) max. 50

PRODUCT NO.	PACKING	CONT. BOX
9823.1000	1 l Glass	6

Water

BAKER ANALYZED LC-MS Reagent

9825

▶ H₂O

M = 18.01 g/mol
1 l = 1 kg
CAS NO. 7732-18-5
EINECS 231-791-2
NC CODE 2851 00 100

Residue after Evaporation max. 5 ppm
LC-Gradient-Diode Array Detection (a.u.):
 at 210 nm max. 0.005
 at 254 nm max. 0.001
LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:
 Positive ESI-MS Sensitive Impurities
 (as Reserpine) max. 100 ng/ml
Product Information (not specifications):
 Density (g/ml) at 20°C 1.00
Trace Impurities (in ppb):
 Aluminium (Al) max. 500
 Calcium (Ca) max. 100
 Iron (Fe) max. 100
 Magnesium (Mg) max. 100
 Potassium (K) max. 100
 Sodium (Na) max. 100

PRODUCT NO.	PACKING	CONT. BOX
9825.1000GL	1 l Glass	6
9825.2500GL	2.5 l Glass	4

Element concentrations are at time of lot release.

Water

'BAKER HPLC ANALYZED' / HPLC Gradient Grade

4218

▶ H₂O

M = 18.01 g/mol
1 l = 1 kg
CAS NO. 7732-18-5
EINECS 231-791-2
NC CODE 2851 00 100

Particulate Matter max. 0.0001%
 Polarity Index 9.0
 Residue after Evaporation max. 2 ppm
 Solvent Group 9
Ultraviolet absorbance of largest eluted peak:
 at 220 nm max. 0.005 au
 at 254 nm max. 0.001 au

PRODUCT NO.	PACKING	CONT. BOX
4218.1000	1 l	6
4218.2500	2.5 l	4

Water

'BAKER ANALYZED'

4217

▶ H₂O

M = 18.01 g/mol
CAS NO. 7732-18-5
EINECS 231-791-2
NC CODE 2851 00 100

Ammonium (NH₄) max. 0.3 ppm
 Conductivity at 20°C max. 5 µS/cm
 Heavy Metals (as Pb) passes test
 pH at 25°C 5.0-7.0
 Residue after Evaporation max. 10 ppm
 Substances Reducing KMnO₄ passes test
Trace Impurities in ppb (ng/g):
 Chloride (Cl) max. 1 ppm
 Sulfate (SO₄) passes test

PRODUCT NO.	PACKING	CONT. BOX
4217.9020	20 l Polycube	

Wijs' Solution
 See Iodine Solution

Wood's Alloy

1219 sticks / 'BAKER ANALYZED'

CAS NO.	8049-22-7	Bismuth (Bi)	49.0-51.0%
NC CODE	8106 00 900	Cadmium (Cd)	12.0-13.0%
		Lead (Pb)	24.5-25.5%
		Melting Point	70.0-74.0°C
		Tin (Sn)	12.0-13.0%

PRODUCT NO.	PACKING	CONT. BOX
1219.0500	500 g	

Wright

3878 Hematology / Wrights stain for differential blood picture staining

1 l = 0.79 kg
FLASHPOINT 11°C °C
UN/ID NO. 1230
IMDG 3.2/II
H: H225-H311-H331-H370
P: P210-P241-P260-P303+P361+P353-P361-P405



Danger

PRODUCT NO.	PACKING	CONT. BOX
3878.1000	1 l	
3878.91805T	180 l Steel Drum	

Xylene

9516 'BAKER ANALYZED' / Ultraviolet Spectrophotometry

C₆H₄(CH₃)₂	Boiling Range (initial to dry point)	137-144°C
M = 106.17 g/mol	Color (APHA)	max. 10
1 l = 0.86 kg	Free acid (µeq/g)	max. 0.12
FLASHPOINT 24 °C	Residue after Evaporation	max. 0.001%
CAS NO. 1330-20-7	Substances Darkened by H ₂ SO ₄	passes test
EINECS 215-535-7	Sulfur Compounds (as S)	max. 0.003%
NC CODE 2902 44 000	Water (H ₂ O) (by Karl Fischer titrn.)	max. 0.02%
EC INDEX NO. 601 022 00 9	Ultraviolet Absorbance (1.00-cm path vs water):	
UN/ID NO. 1307	at 295 nm	max. 1.00
ADR/RID 3 F1	at 300 nm	max. 0.30
IMDG 3/III	at 330 nm	max. 0.05
H: H226-H312-H315-H332	at 380-400 nm	max. 0.01
P: P210-P241-P261-P280-P303+P361+P353-P501a		



Warning

PRODUCT NO.	PACKING	CONT. BOX
9516.1000	1 l	

Contains Ethylbenzene.

Xylene

8080 'BAKER ANALYZED' / ACS

C₆H₄(CH₃)₂	Exceeds ACS Specifications	
M = 106.17 g/mol	Assay	min. 99.0%
1 l = 0.86 kg	Color (APHA)	max. 10
FLASHPOINT 24 °C	Ethylbenzene	max. 25%
CAS NO. 1330-20-7	Residue after Evaporation	max. 0.002%
EINECS 215-535-7	Substances Darkened by H ₂ SO ₄	passes test
NC CODE 2902 44 000	Sulfur Compounds (as S)	max. 0.003%
EC INDEX NO. 601 022 00 9	Water (H ₂ O)	max. 0.03%
UN/ID NO. 1307	Trace Impurities (in ppm):	
ADR/RID 3 F1	Aluminium (Al)	max. 0.5
IMDG 3/III	Barium (Ba)	max. 0.1
H: H226-H312-H315-H332	Boron (B)	max. 0.02
P: P210-P241-P261-P280-P303+P361+P353-P501a	Cadmium (Cd)	max. 0.05
	Calcium (Ca)	max. 0.5
	Chromium (Cr)	max. 0.02
	Cobalt (Co)	max. 0.02
	Copper (Cu)	max. 0.02
	Iron (Fe)	max. 0.1
	Lead (Pb)	max. 0.1



Warning

Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1=

PRODUCT NO.	PACKING	CONT. BOX
8080.1000	1 l	6
8080.2500	2.5 l	4
8080.5000	5 l EcoTainer	4
8080.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.
 For safe handling of 25 l tin cans, see Self-closing tap.

Contains Ethylbenzene.

Xylene
HISTO GRADE

3410

▶ $C_6H_4(CH_3)_2$	Benzene	max. 0.02%
M = 106.17 g/mol		
1 l = 0.86 kg		
FLASHPOINT 24 °C		
CAS NO. 1330-20-7		
EINECS 215-535-7		
NC CODE 2902 44 000		
EC INDEX NO. 601 022 00 9		
UN/ID NO. 1307		
ADR/RID 3 F1		
IMDG 3/III		
H: H226-H312-H315-H332		
P: P210-P241-P261-P280-P303+P361+P353-P501a		



Warning

PRODUCT NO.	PACKING	CONT. BOX
3410.2500PE	2.5 l HDPE	
3410.5000PE	5 l HDPE	
3410.9010	10 l	
3410.9025	25 l	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

Xylene replacement for Histology

See UltraClear

Xylenol Orange Tetrasodium Salt

'BAKER'

X584-01

▶ $C_{31}H_{32}N_2O_{13}S$ (asAcid)	Sensitivity as Metal Indicator	passes test
M = 672.67 g/mol		
CAS NO. 1611-35-4		
EINECS 216-553-8		
NC CODE 2934 30 900		

PRODUCT NO.	PACKING	CONT. BOX
X584-01	5 g	

D(+)-Xylose

'BAKER ANALYZED' Biochemical

1565

▶ $OCH_2(CHOH)_3CHOH$	Meets NAS/NRC Specifications and Criteria for Biochemical Compounds	
M = 150.13 g/mol	Heavy Metals (as Cu)	max. 0.001%
CAS NO. 58-86-6	Loss on Drying at 105°C	max. 0.15%
EINECS 200-400-7	Residue after Ignition	max. 0.05%
NC CODE 2940 00 000	Specific Rotation $[\alpha]_D^{20}$ (dried basis), c=4 in water)	+18.2° to +19.4°
	Trace Impurities (in ppm):	
	Arsenic (As)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
1565.0100	100 g	

Yttrium 1000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5790

▶ Y	Yttrium (Y)	998-1002 µg/ml
M = 88.91 g/mol		
NC CODE 3822 00 000		
H: H272		
P: P210-P220-P221-P280-P370+P378a-P501a		



Danger

PRODUCT NO.	PACKING	CONT. BOX
5790.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Yttrium 10000 µg/ml

5755 (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Y

Yttrium (Y)

9980-10020 µg/ml

M = 88.91 g/mol

1 l = 1.03 kg

NC CODE 3822 00 000

H: 36/38

P: 26-37

PRODUCT
NO.

PACKING

CONT.
BOX

5755.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Zinc 1000 µg/ml

5791 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

▶ Zn

Zinc (Zn)

998-1002 µg/ml

M = 65.39 g/mol

NC CODE 3822 00 000

H: H272-H315-H319

P: P210-P220-P221-P280-

P305+P351+P338-P362



Danger

PRODUCT
NO.

PACKING

CONT.
BOX

5791.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Zinc 1000 µg/ml

6946 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Zn

Zinc (Zn)

998-1002 µg/ml

M = 65.39 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P264-P280-P305+P351+P338-

P332+P313-P337+P313-P362



Warning

PRODUCT
NO.

PACKING

CONT.
BOX

6946.0100

100 ml

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

Zinc 1000 µg/ml

6827 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Zn

Zinc (Zn)

998-1002 µg/ml

M = 65.39 g/mol

NC CODE 3822 00 000

H: H315

P: P264-P280-P302+P352-P321-

P332+P313-P362



Warning

PRODUCT
NO.

PACKING

CONT.
BOX

6827.0100

100 ml

Zinc Nitrate in Nitric Acid 0.5 mol/l.



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Zinc 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5756

▶ Zn

M = 65.39 g/mol**NC CODE** 3822 00 000**H:** H261-H315-H319-H412**P:** P231+P232-P233-P273-P280-P305+P351+P338-P362

Danger

Zinc (Zn)

9980-10020 µg/ml

PRODUCT NO.**PACKING****CONT. BOX**

5756.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Zinc Acetate Dihydrate

'BAKER ANALYZED' / ACS

0357

▶ $\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$ **M** = 219.49 g/mol**CAS NO.** 5970-45-6**EINECS** 209-170-2**NC CODE** 2915 29 000**H:** H301**P:** P264-P270-P301+P310-P330-P405-P501a

Danger

Exceeds ACS Specifications

Assay	99.0-101.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Lead (Pb)	max. 0.002%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	6.0-7.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO_4)	max. 0.002%

PRODUCT NO.**PACKING****CONT. BOX**

0357.0500

500 g

6

Zinc Bromide

granular / 'BAKER ANALYZED'

6123

▶ ZnBr_2 **M** = 225.18 g/mol**CAS NO.** 7699-45-8**EINECS** 231-718-4**NC CODE** 2827 59 000**UN/ID NO.** 3077**ADR/RID** 9 M7**IMDG** 9/III**H:** H314**P:** P260-P303+P361+P353-P305+P351+P338-P310-P405-P501a

Danger

Alkalies and Earths	max. 0.2%
Bromide (Br)	69.5-71.0%
Insoluble in HCl	max. 0.005%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.005%
Sulfate (SO_4)	max. 0.01%

PRODUCT NO.**PACKING****CONT. BOX**

6123.0500

500 g

Zinc Carbonate

powder / 'BAKER ANALYZED'

4312

▶ $\text{Zn}(\text{CO}_3)_2$ **M** = 185.39 g/mol**CAS NO.** 3486-35-9**NC CODE** 2836 99 180

Assay	min. 70.0%
Average Particle Diameter, µm (APD) (by Sedigraph)(typical)	act value reported
Bulk Density (g/cc)	act value reported
Calcium (Ca)	act value reported
Chloride (Cl)	max. 0.002%
Insoluble in H_2SO_4	max. 0.02%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.005%
Nitrate (NO_3)	max. 0.005%
Silicon (Si)	act value reported

Sodium (Na)	act value reported
Specific Surface Area, m ² /g	act value reported
Substances not Precipitated by $(\text{NH}_4)_2\text{S}$ (as SO_4)	max. 0.40%
Sulfate (SO_4)	max. 0.01%

Mesh (Wet Screen Analysis):

On U.S. No. 325 Sieve	act value reported

PRODUCT NO.**PACKING****CONT. BOX**

4312.0500

500 g

Zinc Chloride

4322-01 granular / 'BAKER ANALYZED' / ACS

► ZnCl₂

M = 136.28 g/mol

CAS NO. 7646-85-7

EINECS 231-592-0

NC CODE 2827 36 000

EC INDEX NO. 30 003 00 2

UN/ID NO. 2331

ADR/RID 8 C2

IMDG 8/III

H: H302-H314-H400-H410

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Meets ACS Specifications

Assay	min. 97.0%
Ammonium (NH ₄)	max. 0.005%
Calcium (Ca)	max. 0.06%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.005%
Magnesium (Mg)	max. 0.01%
Nitrate (NO ₃)	max. 0.003%
Oxychloride	passes test
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%
Sulfate (SO ₄)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX

4322-01 500 g HDPE

0360

Zinc Chloride

'BAKER'

► ZnCl₂

M = 136.28 g/mol

CAS NO. 7646-85-7

EINECS 231-592-0

NC CODE 2827 36 000

EC INDEX NO. 30 003 00 2

UN/ID NO. 2331

ADR/RID 8 C2

IMDG 8/III

H: H302-H314-H400-H410

P: P260-P303+P361+P353-
P305+P351+P338-P310-P405-
P501a

Danger

Assay	min. 97.0%
Insoluble Matter	max. 0.1%
Lead (Pb)	max. 0.01%
pH of 5% Solution at 25°C	5.5-7.0

PRODUCT NO.	PACKING	CONT. BOX

0360.1000 1 kg

0360.9050 50 kg

0362

Zinc Nitrate Hexahydrate

'BAKER ANALYZED'

► Zn(NO₃)₂·6H₂O

M = 297.47 g/mol

CAS NO. 10196-18-6

EINECS 231-943-8

NC CODE 2834 29 800

UN/ID NO. 1514

ADR/RID 5.1 O2

IMDG 5.1/II

H: H272-H302-H315-H319-H335

P: P210-P220-P221-
P305+P351+P338-P405-P501a

Danger

Assay (by EDTA titrn.)	99.0-101.0%
Chloride (Cl)	max. 0.002%
Insoluble Matter	max. 0.005%
Lead (Pb)	max. 0.005%
pH of 5% Solution at 25°C	3.5-5.5
Sulfate (SO ₄)	max. 0.005%

Trace Impurities (in ppm):

Copper (Cu)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX

0362.1000 1 kg

Zinc Nitrate Hexahydrate

'BAKER'

1795

▶ $\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	Assay (by EDTA titrn.)	99-101 %	PRODUCT NO.	PACKING	CONT. BOX
M = 297.47 g/mol			1795.1000	1 kg	
CAS NO. 10196-18-6					
EINECS 231-943-8					
NC CODE 2834 29 800					
UN/ID NO. 1514					
ADR/RID 5.1 O2					
IMDG 5.1/II					
H: H272-H302-H315-H319-H335					
P: P210-P220-P221-P305+P351+P338-P405-P501a					
 					
Danger					

Zinc Nitrate solution

10% in H_2O / 'BAKER ANALYZED'

7476

▶ $\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	Assay	9.7 - 10.7 %	PRODUCT NO.	PACKING	CONT. BOX
CAS NO. 7779-88-6			7476.9020	20 l Polycube	
EINECS 231-943-8					
NC CODE 2834 29 900					
H: H72-H315-H319					
P: P221-P210-P220-P280-P305+P351+P338-P362					
 					
Danger					
			Volumetric Solution, ready for use.		

Zinc Oxide

'BAKER ANALYZED' / ACS

0363

▶ ZnO	Exceeds ACS Specifications		PRODUCT NO.	PACKING	CONT. BOX
M = 81.37 g/mol	Assay	min. 99.0%	0363.1000	1 kg	
CAS NO. 1314-13-2	Alkalinity	passes test			
EINECS 215-222-5	Arsenic (As)	max. 2 ppm			
NC CODE 2817 00 000	Calcium (Ca)	max. 0.005%			
H: H400-H410	Chloride (Cl)	max. 0.001%			
P: P273-P391-P501a	Insoluble in Dilute H_2SO_4	max. 0.01%			
	Iron (Fe)	max. 0.001%			
Warning	Lead (Pb)	max. 0.005%			
	Magnesium (Mg)	max. 0.005%			
	Nitrate (NO_3)	max. 0.003%			
	Potassium (K)	max. 0.01%			
	Sodium (Na)	max. 0.05%			
	Sulfur Compounds (as SO_4)	max. 0.01%			
	Trace Impurities (in ppm):				
	Manganese (Mn)	max. 5			

Zinc Oxide

'BAKER'

0364

▶ ZnO	Assay	99.0-100.5%	PRODUCT NO.	PACKING	CONT. BOX
M = 81.37 g/mol	Alkalinity	passes test	0364.1000	1 kg	
CAS NO. 1314-13-2	Arsenic (As)	max. 5 ppm			
EINECS 215-222-5	Cadmium (Cd)	max. 10 ppm			
NC CODE 2817 00 000	Carbonates and Substances Insoluble in Acids	passes test			
H: H400-H410	Identification	passes test			
P: P273-P391-P501a	Iron (Fe)	max. 200 ppm			
	Lead (Pb)	max. 50 ppm			
Warning	Loss on Ignition	max. 1.0%			

Zinc

Zinc Sulfate Heptahydrate

0365

'BAKER ANALYZED' / ACS

▶ ZnSO₄·7H₂O

M = 287.54 g/mol

CAS NO. 7446-20-0

EINECS 231-793-3

NC CODE 2833 26 000

EC INDEX NO. 30 006 00 9

UN/ID NO. 3077

ADR/RID 6.1

H: H302-H318-H400-H410

P: P273-P280-P301+P312-
P305+P351+P338-P310-P501a

Danger

Exceeds ACS Specifications

Assay	99.0-103.0%
Ammonium (NH ₄)	max. 0.001%
Calcium (Ca)	max. 0.005%
Insoluble Matter	max. 0.01%
Lead (Pb)	max. 0.003%
Magnesium (Mg)	max. 0.005%
Nitrate (NO ₃)	max. 0.002%
pH of 5% Solution at 25°C	4.4-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%

Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Iron (Fe)	max. 5
Manganese (Mn)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0365.0100	100 g	
0365.1000	1 kg	

Zinc Sulfate Heptahydrate

1796

'BAKER'

▶ ZnSO₄·7H₂O

M = 287.54 g/mol

CAS NO. 7446-20-0

EINECS 231-793-3

NC CODE 2833 26 000

EC INDEX NO. 30 006 00 9

UN/ID NO. 3077

ADR/RID 6.1

H: H302-H318-H400-H410

P: P273-P280-P301+P312-
P305+P351+P338-P310-P501a

Danger

Assay	99.0-104.0%
Acidity	passes test
Alkalies and Alkaline Earths	max. 0.9%
Appearance of solution	passes test
Arsenic (As)	passes test
Chloride (Cl)	max. 300 ppm
Identification	passes test
Iron (Fe)	max. 100 ppm
Lead (Pb)	max. 0.002%
pH	4.4-5.6

PRODUCT NO.	PACKING	CONT. BOX
1796.1000	1 kg	

Preserve in tight containers.

Zinc Sulfate

7254

0.1 mol/l / 'BAKER ANALYZED'

▶ ZnSO₄·7H₂O

M = 287.54 g/mol

1 l = 1.02 kg

CAS NO. 7446-20-0

EINECS 231-793-3

NC CODE 2833 26 000

H: H319-H411

P: P264-P273-P280-
P305+P351+P338-
P337+P313-P391

Warning

Titer (mol/l) 0.0995-0.1005

PRODUCT NO.	PACKING	CONT. BOX
7254.1000	1 l	6
7254.9010	10 l	

Zinc Sulfate

4874

0.1 mol/l / DILUT-IT

1 l = 1.16 kg

CAS NO. 7446-20-0

NC CODE 2833 26 000

H: H318-H411

P: P273-P280-P305+P351+P338-
P310-P391-P501a

Danger

PRODUCT NO.	PACKING	CONT. BOX
4874	1 Amp.	

Volumetric Concentrate, for dilution to 1 l

Zirconium 1000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5792

► Zr

M = 91.22 g/mol

NC CODE 3822 00 000

Zirconium (Zr)

998-1002 µg/ml

**PRODUCT
NO.****PACKING****CONT.
BOX**

5792.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

Zirconium 10000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma standard

5757

► Zr

M = 91.22 g/mol

NC CODE 3822 00 000

H: H315-H319

P: P280-P264-P305+P351+P338-
P362-P332+P313-P337+P313

Warning

Zirconium (Zr)

9980-10020 µg/ml

**PRODUCT
NO.****PACKING****CONT.
BOX**

5757.0100

100 ml

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

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Chromatography Products

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

ADSORPTION

Activated Spherical Carbon	6	30	500	7575-06	
	6	30	1000	7575-07	
Alumina, Neutral (Al₂O₃)	3	50	500	7214-03	
	3	50	1000	7214-04	
	6	30	1000	7214-07	
Florisil (Mg₂SiO₃) Jumbo Pack Jumbo Pack Glass Glass	3	50	500	7213-03	
	6	30	1000	7213-07	
	6	30	2000	7213-08	
	3	250	500	7213-23	
	6	250	1000	7213-27	
	8	30	500	7420-06	
	8	30	1000	7420-07	
Silica Gel (SiOH) Jumbo Pack Jumbo Pack Jumbo Pack Jumbo Pack Glass Glass	1	100	100	7086-01	
	3	50	200	7086-02	
	3	50	500	7086-03	
	6	30	500	7086-06	
	6	30	1000	7086-07	
	6	30	2000	7086-08	
	3	400	200	7086-22	
	3	400	500	7086-23	
	6	250	500	7086-26	
	6	250	1000	7086-28	
	8	30	1000	7337-07	
	8	30	2000	7337-08	

ANION EXCHANGE

Diamino (NH/NH₂)	3	50	500	7089-03	
Quaternary Amine (N⁺)	1	100	100	7091-01	
	3	50	500	7091-03	
	6	30	1000	7091-07	

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

BIOCHROMATOGRAPHY

Sephadex G-25	6	30	500	7219-07	
WP Butyl (C ₄)	6	30	500	7216-06	
WP CBX (COOH)	6	30	500	7217-06	
WP HI-Propyl (C ₃)	6	30	500	7238-06	

CATION EXCHANGE

Aromatic Sulfonic Acid (C ₆ H ₅ -SO ₃ H)	1 3 6	100 50 30	100 500 1000	7090-01 7090-03 7090-07	
Carboxylic Acid (COOH)	1 3	100 50	100 500	7211-01 7211-03	
Propyl Sulfonic Acid (CH ₃ CH ₂ CH ₂ SO ₃ H)	3	50	500	7155-03	

METHOD DEVELOPMENT

Method development kit, 5 each: (octadecyl, octyl, phenyl, silica gel, cyano, carboxylic acid, amino, diol, diamino, quaternary amine, aromatic sulfonic acid)	3	55	500	7096-00	
Protein sorbent selection kit, 3 each (CBX, PEI, HI-propyl, butyl, sephadex G-25)	6	15	500	7239-09	

NORMAL PHASE

Amino (NH ₂)	1 3 3 6	100 50 50 30	100 200 500 2000	7088-01 7088-02 7088-03 7088-09	

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

NORMAL PHASE

Cyano (CN)	1	100	100	7021-01	
	3	50	100	7021-02	
	3	50	500	7021-03	
	6	30	1000	7021-07	
Diol (COHCOH)	1	100	100	7094-01	
	3	50	500	7094-03	
	6	30	500	7094-06	

REVERSED PHASE

Cyclohexyl(C ₆ H ₁₁)	1	100	100	7212-01	
	3	50	500	7212-03	
Ethyl (C ₂)	1	100	100	7273-01	
	3	50	200	7273-02	
Octadecyl (C ₁₈)	1	100	50	7020-00	
	1	100	100	7020-01	
	3	50	200	7020-02	
	3	50	500	7020-03	
	6	30	500	7020-06	
	6	30	1000	7020-07	
	6	30	2000	7020-08	
	19	30	500	7020-13	
	1	400	100	7020-21	
	1	1000	100	7020-22	
	3	400	500	7020-23	
	6	250	500	7020-26	
	6	250	1000	7020-27	
	3	50	500	7334-03	
	3	50	1000	7334-04	
	8	30	500	7334-06	
	8	30	1000	7334-07	
	8	30	2000	7334-08	
Octadecyl (C ₁₈), Light Load	1	100	100	7189-01	
	3	50	200	7189-02	
	3	50	500	7189-03	
	3	50	1000	7189-04	
	6	30	500	7189-06	

Wide-Mouth
Jumbo Pack
Jumbo Pack, also available as ear shaped: PN 7020-22T
Jumbo Pack
Jumbo Pack
Jumbo Pack
Glass
Glass
Glass
Glass
Glass

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number	
REVERSED PHASE					
Octadecyl (C₁₈), Polar Plus Jumbo Pack	1	100	50	7466-00	
	1	100	100	7466-01	
	3	50	500	7466-03	
	3	50	1000	7466-04	
	6	30	500	7466-06	
	6	30	1000	7466-07	
	6	30	2000	7466-08	
	6	30	3000	7466-10	
	6	250	1000	7466-27	
Octyl (C₈) Jumbo Pack	1	100	100	7087-01	
	3	50	200	7087-02	
	3	50	500	7087-03	
	6	30	500	7087-06	
	6	250	500	7087-26	
Phenyl(C₆H₅)	1	100	100	7095-01	
	3	50	500	7095-03	
	6	30	500	7095-06	
	6	30	2500	7095-09	
SDB-1 Polymer Phase Also available as ear shaped: PN 7519-02T Jumbo Pack, also available as ear shaped: PN 7519-22T Jumbo Pack Glass	3	50	100	7519-01	
	3	50	200	7519-02	
	6	30	200	7519-05	
	3	400	200	7519-22	
	6	250	200	7519-25	
	3	50	200	7609-02	
SDB-2 Polymer Phase Also available as ear shaped: PN 7523-05T Jumbo Pack	3	50	200	7523-02	
	6	30	200	7523-05	
	3	400	200	7523-22	
SPECIAL APPLICATIONS					
Clean-up column of extracts of Hydrocarbons from Water. Suitable for ISO-9377-2 Contains 0.2 g Anhydrous Sodium Sulfate (top) and 0.2 g Florisil, separated by a PTFE frit Contains 2 g Anhydrous Sodium Sulfate and 2 g Florisil, separated by a PTFE frit					
	3	50	400	7495-04	
	8	15	4000	7495-18	
Clean-up of pesticide residues in agricultural products Contains 500 mg Amino (top) and 500 mg Activated Carbon, separated by a PE frit					
	6	30	1000	7450-07	

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

SPECIAL APPLICATIONS

Extraction of Pesticides from water Contains 500 mg C ₁₈ (top) and 200 mg SDB-1, separated by a PE frit. Also available as ear shaped: PN 7650-07T	6	30	700	7650-07	
Extraction of Polar Pesticides from water Contains 250 mg C ₁₈ Polar Plus (top) and 100 mg SDB-1, separated by a PE frit	6	30	350	7704-06	
Narc-1 (Δ⁹-carboxy THC)	3	50	500	7221-03	
Narc-2 (cocaine, benzoylecgonine) Jumbo Pack	3 6 6 3	50 30 30 400	125 250 500 125	7225-04 7225-05 7225-06 7225-24	
PAH Aqua Contains 200 mg Amino (top) and 500 mg C ₁₈ , separated by a PE frit Contains 500 mg Amino (top) and 1000 mg C ₁₈ , separated by a PE frit	3 6	50 30	700 1500	7490-07 7490-08	
PAH Soil Contains 500 mg Cyano (top) and 1000 mg Silica gel, separated by a PE frit	6	30	1500	7518-08	
PCB-A Contains 500 mg Sulfuric Acid treated Silica gel (top) and 500 mg Aromatic Sulfonic Acid, separated by a PE frit	3	50	1000	7511-04	
PCB-N Contains 500 mg Aromatic Sulfonic Acid (top) and 500 mg Silica gel, separated by a PE frit	3	50	1000	7524-04	
spe-500 (EPA approved for organochloropesticides)	6	30	500	7222-06	

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Glass Columns with PTFE Frits

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

EMPTY spe GLASS COLUMNS WITH PTFE FRITS

spe GLASS COLUMNS WITH PTFE Frits					
	1	100		7328-01	
	3	50		7328-03	
	8	30		7328-06	

PTFE FRITS FOR spe GLASS COLUMNS

PTFE Frits for 1 ml spe Glass Columns		250		7329-01	
PTFE Frits for 3 ml spe Glass Columns		250		7329-03	
PTFE Frits for 8 ml spe Glass Columns		250		7329-06	

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Column Processors Parts and Accessories

Product
Number

ACCESSORIES FOR BAKER spe-12G COLUMN PROCESSOR (PTFE design)

PTFE Lined Luer Locks (taps), Stainless Steel (pkg of 12)	4514	
Drying Top, polyamide for drying purpose (columns) or evaporation purpose (eluates)	4581	
Luer PTFE Stopcocks (pkg of 12)	7514-00	
Vacuum Gauge/PTFE Controller Assembly	7515-00	
Autosampler Plate	7516-01	
Plugs for lid that fits into Luer PTFE Connectors (PN 4586)(pkg of 30)	7517-00	

EXTRACTION COLUMN PROCESSOR REPLACEMENT PARTS FOR BAKER spe-12G COLUMN PROCESSOR

for both designs of BAKER spe-12G Column Processor

Waste Liner for spe-12G	7237-00	
Glass vacuum chamber, suitable for PN 7018-00 BAKER spe-12G Column Processor	7421-00	
Nylon (blue-colored) Lid (with luer connectors), suitable for PN 7018-00 BAKER spe-12G Column Processor	7424-00	
Polypropylene Rack Set, suitable for PN 7018-00 BAKER spe-12G Column Processor	7427-00	
Polyethylene Gasket Seals (pkg of 2), suitable for both designs of BAKER spe-12G Column Processors PN 7018-00 and PN 7018-94	7430-00	
Neoprene Gasket Seals (pkg of 2), suitable for both designs of BAKER spe-12G Column Processor PN 7018-00 and PN 7018-94	7433-00	
Glass Vacuum Chamber, suitable for PN 7018-94 BAKER spe-12G Column Processor (PTFE Design)	7512-00	
Polyamide Lid (with 12 PTFE luer connections), suitable for PN 7018-94 BAKER spe-12G Column Processor (PTFE Design)	7513-00	

EXTRACTION COLUMN PROCESSOR REPLACEMENTS PARTS FOR BAKER spe-24G PROCESSOR

for BAKER spe-24G Column Processor

Glass vacuum chamber	7423-00	
Nylon (blue-colored) Lid (with luer connectors)	7426-00	
Polypropylene Rack Set	7429-00	
Polyethylene Gasket Seals (pkg of 2)	7432-00	
Neoprene Gasket Seals (pkg of 2)	7435-00	

EXTRACTION COLUMN PROCESSORS

BAKER spe-12G Column Processor	7018-00	
BAKER spe-12G Column Processor (PTFE Design))	7018-94	
BAKER spe-24G Column Processor	7208-00	

Solid Phase Extraction BAKERBOND spe

BAKERBOND spe Column Processors Parts and Accessories

Product
Number

GENERAL ACCESSORIES FOR BAKER spe-12G and BAKER-24G

General SPE Accessories

Polypropylene Luer Connector Female (pkg of 12)	2120-01
Polypropylene Luer Connector Male (pkg of 12)	2121-20
Luer Locks (taps), Stainless Steel (pkg of 12)	4505
BAKERBOND spe Application Notes Manual	4520
Luer PTFE Connectors (one-piece)	4586
Polypropylene Stopcocks (pkg of 10)	7241-00
Plugs for Female Luer (pkg of 30)	7327-00
Inert Flow Control valves (pkg of 12)	7425-00
Polypropylene Replacement Needles (pkg of 12)	7436-00
Vacuum Gauge / controller assembly	7437-00

GENERAL SPE ACCESSORIES

Reservoirs For Use With 1, 3 and 6 ml spe Columns, 15 ml (pkg of 10)	7119-01
Reservoirs For Use With 3 and 6 ml Columns, 75 ml (pkg of 10)	7120-03
Filtration Columns, Packed With Dual 20 µm Frits, 1 ml (pkg of 100)	7121-01
Filtration spe Columns, Packed With Dual 20 µm Frits, 3 ml (pkg of 50), also available as ear shaped: PN 7121-03T	7121-03
Filtration spe Columns, Packed With Dual 20 µm Frits, 3 ml (pkg of 100)	7121-04
Frits for 3ml Polypropylene spe Columns (pkg of 50)	7121-05
Filtration spe Columns, Packed With Dual 20 µm Frits, 6 ml (pkg of 30)	7121-06
Filtration spe Columns, Packed With 20µm Frits, 6 ml (pkg of 100)	7121-08

Adaptors

Adaptor (white-colored) PTFE for Glass SPE Columns (pkg of 12)	4528
Adaptor (blue-colored) for Attaching Reservoir or Luer Tip (pkg of 12)	7122-00

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

ADSORPTION

Silica	1	100	20	8163-01
	1	100	35	8163-02
	3	50	35	8163-03
	3	50	50	8163-04
	3	50	100	8163-06
	6	30	200	8163-09
	1 (rimless)	96	20	8163-11

ANION EXCHANGE

Amino (NH ₂)	1	100	35	8165-02
	3	50	35	8165-03
	3	50	100	8165-06
	6	30	200	8165-09
	1 (rimless)	96	20	8165-11
Quarternary Amine (N ⁺)	1	100	35	8168-02
	3	50	35	8168-03
	3	50	50	8168-04
	3	50	100	8168-06
	6	30	200	8168-09
	1 (rimless)	96	20	8168-11

CATION EXCHANGE

Aromatic Sulfonic Acid (C ₆ H ₅ -SO ₃ H)	1	100	35	8170-02
	3	50	50	8170-04
	3	50	100	8170-06
	6	30	200	8170-09
	1 (rimless)	96	20	8170-11
Carboxylic Acid (COOH)	1	100	35	8172-02
	3	50	50	8172-04
	3	50	100	8172-06
	6	30	50	8172-07
	6	30	200	8172-09
	1 (rimless)	96	20	8172-11

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number	
NORMAL PHASE					
Cyano(CN)	1	100	35	8159-02	
	3	50	50	8159-04	
	3	50	100	8159-06	
	6	30	200	8159-09	
	1 (rimless)	96	20	8159-11	
Diol (COHCOH)	1	100	35	8167-02	
	3	50	50	8167-04	
	3	50	100	8167-06	
	6	30	200	8167-09	
	1 (rimless)	96	20	8167-11	
POLYMER COLUMN-HYDROPHOBIC					
H₂O-Phobic DVB	1	100	20	8109-01	
	1	100	35	8109-02	
	3	50	35	8109-03	
	3	50	50	8109-04	
	3	50	100	8109-06	
	6	30	100	8109-08	
	6	30	200	8109-09	
	1 (rimless)	96	20	8109-11	
H₂O-Phobic SC-DVB (SO₃)	1	100	35	8196-02	
	3	50	35	8196-03	
	3	50	50	8196-04	
	3	50	100	8196-06	
	6	30	100	8196-08	
	6	30	200	8196-09	
	1 (rimless)	96	20	8196-11	
H₂O-Phobic WA-DVB (NH₂)	1	100	35	8115-02	
	3	50	50	8115-04	
	3	50	100	8115-06	
	6	30	100	8115-08	
	6	30	200	8115-09	
	1 (rimless)	96	20	8115-11	

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

POLYMER COLUMNS-HYDROPHILIC

H₂O-Philic DVB	1	100	20	8108-01
	1	100	35	8108-02
	3	50	35	8108-03
	3	50	50	8108-04
	3	50	100	8108-06
	6	30	100	8108-08
	6	30	200	8108-09
	1 (rimless)	96	20	8108-11
H₂O-Philic SA-DVB	1	100	35	8113-02
	3	50	35	8113-03
	3	50	50	8113-04
	3	50	100	8113-06
	6	30	100	8113-08
	6	30	200	8113-09
	1 (rimless)	96	20	8113-11
H₂O-Philic SC-DVB (SO₃)	1	100	20	8111-01
	1	100	35	8111-02
	3	50	35	8111-03
	3	50	50	8111-04
	3	50	100	8111-06
	6	30	200	8111-09
	1 (rimless)	30	20	8111-11

REVERSED PHASE

Ethyl (C₂)	1	100	35	8157-02
	3	50	50	8157-04
	3	50	100	8157-06
	6	30	200	8157-09
	1 (rimless)	96	20	8157-11
Octadecyl (C₁₈)	1	100	20	7606-01
	1	100	35	7606-02
	3	50	50	7606-04
	3	50	100	7606-06
	6	30	200	7606-09
	1 (rimless)	96	20	7606-11

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number	
REVERSED PHASE					
Octadecyl Light Load (C₁₈)	1	100	10	8151-00	
	1	100	20	8151-01	
	1	100	35	8151-02	
	3	50	50	8151-04	
	3	50	100	8151-06	
	6	30	100	8151-08	
	6	30	200	8151-09	
	1 (rimless)	96	20	8151-11	
Octyl (C₈)	1	100	35	8154-02	
	3	50	50	8154-04	
	3	50	100	8154-06	
	6	30	200	8154-09	
	1 (rimless)	96	20	8154-11	
Phenyl (C₆H₅)	1	100	35	8160-02	
	3	50	50	8160-04	
	3	50	100	8160-06	
	6	30	200	8160-09	
	1 (rimless)	96	20	8160-11	
PolarPlus Octadecyl (C₁₈)	1	100	20	8153-01	
	1	100	35	8153-02	
	3	50	35	8153-03	
	3	50	50	8153-04	
	3	50	100	8153-06	
	6	30	200	8153-09	
	1 (rimless)	96	20	8153-11	
PolarPlus Octyl (C₈)	1	100	35	8156-02	
	3	50	35	8156-03	
	3	50	50	8156-04	
	3	50	100	8156-06	
	6	30	200	8156-09	
	1 (rimless)	96	20	8156-11	

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number

SPECIAL APPLICATIONS

Narc-1 (Δ^9 - Carboxy THC)	1	100	35	8174-02
	3	50	50	8174-04
	3	50	100	8174-06
	6	30	100	8174-08
	6	30	200	8174-09
Narc-2 (Basic Drugs, Cocaine, Benzoyllecgonine)	1	100	35	8175-02
	3	50	35	8175-03
	3	50	50	8175-04
	3	50	100	8175-06
	6	30	200	8175-09

Speedisk 96-Well Plates

H ₂ O-Philic DVB		1		8077-96
H ₂ O-Philic SC-DVB		1		8132-96

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk extraction products

Quantity per box	Product Number

BAKERBOND SPEEDISKS EXTRACTION DISKS

C₁₈ (octadecyl) 50 mm disks for normal water-samples 50 mm disks for water samples, High capacity	20	8055-06	
	20	8055-07	
C₁₈ Polar Plus 50 mm disks for water-samples containing slightly polar to non-polar analytes	20	8061-06	
C₁₈ XF (Extra filter) 50 mm disks for crude and dirty samples.	20	8056-06	
C₈ (octyl) 50 mm disks for diquat/paraquat.	20	8057-06	
H₂O Philic DVB (DiVinylBenzene) 50 mm disks for non-polar to polar analytes 50 mm disks, High capacity 50 mm disk for EPA Method 8270.	20	8072-06	
	20	8072-07	
	20	8082-06	
H₂O-Phobic DVB (DiVinylBenzene) 50 mm disks for non-polar to moderately polar analytes 50 mm disks, High capacity	20	8068-06	
	20	8068-07	
Oil & Grease 50 mm disks for hydrocarbons/Oil & Grease.	20	8060-06	
SAX (Strong Anion Exchanger) 50 mm disks for haloacetic acids/Dalapon.	20	8058-06	

SPEEDISK ADAPTERS

Adapters Single port with #8 stopper. Connection of disks to vacuum flask and many other vacuum manifolds (such as Nalge and Contes). Adapter ring for 40-35 tapered outer joint	1	8070-01	
	6	8100-06	
Remote sample adapter For transfer of sample from remote container.	6	8099-06	

SPEEDISK EXTRACTION STATION

Expanded extraction station Six-port processing system. (six side-by-side 1L sample reservoirs). Includes: extraction station, 2 remote sample adapters, 2 collection chambers and 2 vials, 6 reservoirs of 185 ml.	1	8095-06	

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk extraction products

Quantity per box	Product Number

SPEEDISK RESERVOIRS

185 ml Reservoir Holds inverted 1L reservoir or 185 ml sample.	6	8097-06	
1L Glass reservoir 1L sample reservoir, fits into a Speedisk extraction disk.	1	8098-01	
70 mm/Mason Jar Adaptor Enables inverted geed directly to extraction disk from sample jar	4	8102-04	
Collection chamber (includes sample vial)	2	8096-02	
Collection Vials (Sample vials)	100	8102-01	
Sample tray Holds up to four 1L bottles at a tilt to ensure complete sample uptake by remote sample adapter suction tube.	1	8101-01	

Solid Phase Extraction BAKERBOND Speedisk

BAKERBOND Speedisk Processing Systems System Accessories

Product
Number

BAKERBOND Speedisk PROCESSING SYSTEMS

Speedisk 48 Positive Pressure Processor

8118-00

Speedisk 96 Positive Pressure Processor

8129-00

GENERAL ACCESSORIES for Speedisk 48 and Speedisk 96

Gas Supply Adapter, 6 ft. length of 1/4" tubing and 1/8"-1/4" adapter fittings

8128-01

Speedisk 48 ACCESSORIES

Collection Tube Rack, 12 x 75 mm Tubes

8119-01

Collection Tube Rack, 13 x 100 mm Tubes

8120-01

Collection Tube Rack, 16 x 100 mm Tubes

8121-01

Rack for 1 ml SPE Columns

8122-01

Rack for 3 ml SPE Columns

8123-01

Rack for 6 ml SPE Columns

8124-01

Collection Vial Rack, 12 x 32 mm Auto-Sampler

8125-01

Waste Bin

8126-01

48-Column Sealing Gasket

8127-01

Speedisk 96 ACCESSORIES

96-Column Sealing Gasket

8130-01

2 ml x 96 Well Collection Tray

8131-96

Speedisk 96 Column Holder

8150-00

1 ml x 96 Well Collection Tray

8188-96

10 ml x 24 Well Collection Tray

8197-24

General Chromatography Summary

HPLC Columns

Å	column size (mm)	micron	Product Number

NORMAL PHASE HPLC COLUMNS

Cyano (CN)	120	4.6 x 250	5	7111-00	

REVERSED PHASE HPLC COLUMNS

Octadecyl (C₁₈ BDC)	120	4.6 x 250	5	7441-00	
	120	4.6 x 150	5	7441-01	
with guard	120	4.6 x 250	5	7441-02	
with guard	120	4.6 x 150	5	7441-03	
Replacement guard cartridges	120		5	7442-05	
Octadecyl (C₁₈)	120	4.6 x 250	5	7098-00	
	120	4.6 x 150	5	7098-01	
Octyl (C₈)	120	4.6 x 250	5	7109-00	

General Chromatography Summary

Bulk Packings

	Å	micron	Pkg Size	Product Number	
ADSORPTION					
Activated Spherical Carbon			100 g	7532-00	
Silica Gel (SiOH)	60	40	5 kg	7024-00	
	60	40	1 kg	7024-01	
	60	40	25 kg	7024-02	
	60	40	500 g	7024-05	
ION EXCHANGE					
Aromatic Sulfonic Acid (C ₆ H ₅ SO ₃ H)	60	40	100 g	7046-00	
Carboxylic Acid (COOH)	60	40	100 g	7044-00	
Quaternary Amine (N ⁺)	60	40	100 g	7043-00	
Sulfonic Acid (SO ₃ H)	60	40	100 g	7045-00	
NORMAL PHASE					
Amino (NH ₂)	60	40	100 g	7028-00	
Diol (COHCOH)	60	40	100 g	7047-00	
REVERSED PHASE					
Butyl (C ₄)	60	40	100 g	7037-00	
Cyano (CN)	60	40	100 g	7027-00	
Ethyl (C ₂)	60	40	100 g	7199-00	
	60	40	1 kg	7199-01	

General Chromatography Summary

Bulk Packings

Å	micron	Pkg Size	Product Number

REVERSED PHASE

Octadecyl (C ₁₈)	60	40	100 g	7025-00	
	60	40	1 kg	7025-01	
	120	10	1 kg	7484-01	
	120	50	1 kg	7579-01	
Octadecyl (C ₁₈), High Hydrophobic	60	40	100 g	7243-00	
Octadecyl (C ₁₈), Polar Plus	60	40	100 g	7465-00	
	60	40	1 kg	7465-01	
Octyl (C ₈)	60	40	100 g	7026-00	
Phenyl(C ₆ H ₅)	60	40	100 g	7040-00	
Styrene divinyl benzene (SDB 1)			100 g	7530-00	

SPECIAL APPLICATIONS

Florisil. SPE sorbent for clean-up columns. Suitable for determination of Hydrocarbon Oil Index according ISO-9377-2 and NEN 5733			100 g	7061-00	
Magnesium Sulfate Heptahydrate. Suitable for the determination of Hydrocarbon Oil Index according ISO-9377-2 and NEN 5377. Avoids formation of emulsions			1 kg	0168	
Silanized Glass Wool			50 g	7084-05	
Sodium Sulfate Anhydrous. SPE sorbent for clean-up columns. Suitable for determination of Hydrocarbon Oil Index according ISO-9377-2 and NEN 5733			100 g	3377-00	

Biochromatography Summary

HPLC Columns HPLC Columns Accessories

	Å	micron	Size (mm)	Product Number	
HYDROPHOBIC INTERACTION					
WP HI-Propyl (C₃)					
STANDARD	300	5	4.6 x 250	7276-00	
VERSA-TEN	300	5	7.75 x 100	7276-06	
SEMI-PREP	300	15	10 x 250	7277-00	
ION EXCHANGE HPLC COLUMNS					
ABx (antibody exchanger)					
SEMI-PREP	300	15	10 x 250	7272-00	
PREP	300	15	21.2 x 250	7272-43	
WP CARBOXY-SULFON (weak-strong cation exchanger)					
SCOUT	300	5	4.6 x 50	7159-05	
SEMI-PREP	300	15	10 x 250	7274-00	
WP CBX (weak cation exchanger)					
STANDARD	300	5	4.6 x 250	7114-00	
SEMI-PREP	300	15	10 x 250	7279-00	
WP DEAM (weak anion exchanger)					
SEMI-PREP	300	15	10.0 x 250	7475-39	
WP PEI (weak anion exchanger)					
SEMI-PREP	300	15	10 x 250	7278-00	
WP QUAT (strong anion exchanger)					
SCOUT	300	5	4.6 x 250	7158-00	
SCOUT	300	5	4.6 x 50	7158-05	
VERSA-TEN	300	5	7.75 x 100	7158-06	
SEMI-PREP	300	15	10.0 x 250	7275-00	
REVERSED PHASE HPLC COLUMNS					
WP Butyl (C₄)					
STANDARD	300	5	4.6 x 250	7116-00	
SEMI-PREP	300	15	10 x 250	7280-00	
PREP	300	15	21.2 x 250	7280-43	
WP Octadecyl (C₁₈)					
STANDARD	300	5	4.6 x 250	7104-00	
STANDARD-TEN	300	5	4.6 x 100	7104-01	
SEMI-PREP	300	15	10.0 x 250	7297-00	
PREP	300	15	21.2 x 250	7297-43	
PREP	300	15	50.8 x 250	7297-47	
WP Octyl (C₈)					
STANDARD-TEN	300	5	4.6 x 100	7105-01	
SEMI-PREP	300	15	10 x 250	7296-39	

Biochromatography Summary

Bulk Packings

Å	micron	Pkg Size	Product Number

AFFINITY

Glutaraldehyde-P	300	40	100 g	7567-00	
	300	40	10 g	7567-02	
	300	40	500 g	7567-05	
Glutaraldehyde-P	500	40	1 kg	7568-01	
	500	40	10 g	7568-02	

ION EXCHANGE

ABx (antibody exchanger)	300	15	100 g	7157-00	
	300	15	10 g	7157-02	
	300	15	500 g	7157-05	
	275	40	100 g	7269-00	
	275	40	10 g	7269-02	
	275	40	500 g	7269-05	
ABx Plus (antibody exchanger)	275	40	100 g	7254-00	
	275	40	10 g	7254-02	
	275	40	500 g	7254-05	
WP CARBOXY-SULFON (weak-strong cation exchanger)	300	15	10 g	7184-02	
	275	40	100 g	7252-00	
	275	40	10 g	7252-02	
	275	40	500 g	7252-05	
WP CBX (weak cation exchanger)	300	5	1 g	7136-01	
	300	15	100 g	7181-00	
	300	15	10 g	7181-02	
	300	15	500 g	7181-05	
	275	40	100 g	7263-00	
	275	40	10 g	7263-02	
	275	40	500 g	7263-05	
WP DEAM (weak anion exchanger)	300	15	10 g	7472-02	
	275	40	100 g	7473-00	
	275	40	10 g	7473-02	
	275	40	500 g	7473-05	

Biochromatography Summary

Bulk Packings

	Å	micron	Pkg Size	Product Number	
ION EXCHANGE					
WP HI-Propyl (C₃)	300	15	10 g	7182-02	
	300	15	500 g	7182-05	
	275	40	100 g	7285-00	
	275	40	10 g	7285-02	
	275	40	500 g	7285-05	
	300	5	1 g	7291-01	
WP PEI (weak anion exchanger)	300	15	100 g	7180-00	
	300	15	10 g	7180-02	
	300	15	500 g	7180-05	
	275	40	100 g	7264-00	
	275	40	1 kg	7264-01	
	275	40	10 g	7264-02	
	275	40	500 g	7264-05	
WP QUAT (strong anion exchanger)	300	15	10 g	7183-02	
	275	40	100 g	7251-00	
	275	40	10 g	7251-02	
REVERSED PHASE CHROMATOGRAPHY MEDIA					
WP Butyl (C₄)	300	15	100 g	7179-00	
	300	15	10 g	7179-02	
	300	15	500 g	7179-05	
	275	40	100 g	7283-00	
	275	40	10 g	7283-02	
	275	40	500 g	7283-05	
WP Cyano (CN)	300	5	1 g	7129-01	
WP Octadecyl (C₁₈)	300	15	100 g	7191-00	
	300	15	10 g	7191-02	
	300	15	500 g	7191-05	
	300	15	100 g	7207-00	
	300	15	10 g	7207-02	
	300	15	500 g	7207-05	
	275	40	100 g	7248-00	
	275	40	10 g	7248-02	
	275	40	500 g	7248-05	
WP Octyl (C₈)	300	5	1 g	7132-01	

Biochromatography Summary

Bulk Packings

Å	micron	Pkg Size	Product Number

WIDE-PORE POLYMER MEDIA

XWP 500 PolyABx-35	500	35	50 ml	7586-01	
	500	35	100 ml	7586-02	
	500	35	500 ml	7586-03	
	500	35	5 l	7586-05	
XWP 500 PolyCSX-35	500	35	50 ml	7587-01	
	500	35	100 ml	7587-02	
	500	35	500 ml	7587-03	
XWP 500 PolyPEI-35	500	35	50 ml	7585-01	
	500	35	500 ml	7585-03	
	500	35	5 l	7585-05	
XWP 500 PolyQuat-35	500	35	50 ml	7603-01	
	500	35	100 ml	7603-02	
	500	35	500 ml	7603-03	
XWP Poly HI-Propyl-35	500	35	50 ml	7588-01	
	500	35	100 ml	7588-02	

WIDE-PORE SILICA

WP Silica	1000	40	1 kg	7315-01	
	1000	40	10 g	7315-02	

Thin Layer Chromatography Summary

BAKER Pre-Coated Hard Layer TLC Plates

	Plate Size (cm)	Quantity per Box	Product Number	
SILICA GEL PLATES 250 µm Analytical Layer				
TLC Plate With Fluorescent Indicator BAKER Si250F BAKER Si250F BAKER Si250F	5 x 20 10 x 20 20 x 20	100 50 25	7001-00 7001-03 7001-04	
TLC Plate With Fluorescent Indicator BAKER Si250F-PA BAKER Si250F (19C)	20 x 20 20 x 20	25 25	7004-04 7007-04	
TLC Plate Without Fluorescent Indicator BAKER Si250 BAKER Si250	10 x 20 20 x 20	50 25	7000-03 7000-04	
TLC Plate Without Fluorescent Indicator BAKER Si250-PA BAKER Si250-PA (19)	20 x 20 20 x 20	25 25	7003-04 7009-04	
SILICA GEL PLATES 500 µm Preparative Layer				
TLC Plate With Fluorescent Indicator BAKER Si500F	20 x 20	20	7002-05	
SILICA GEL PLATES High Performance TLC, 200 µm Analytical Layer				
TLC Plate With Fluorescent Indicator BAKER SiHPF	10 x 20	50	7011-03	
SILICA GEL PLATES - Reversed Phase, Octadecyl (C18), 200 µm Analytical Layer				
TLC Plate With Fluorescent Indicator BAKER Si-C ₁₈ F	20 x 20	25	7013-04	
TLC Plate Without Fluorescent Indicator BAKER Si-C ₁₈	20 x 20	25	7012-04	

Dissolution Media

DILUT-IT Dissolution Media Concentrates

Dilute to volume of (l)	Product Size (ml)	Product Number

ACIDS

Hydrochloric Acid 0.01N Also available per box (qty per box= 12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D010-00	
	25	961.5	D010-02	
	50	1900	D010-04	
Hydrochloric Acid 0.1N Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D011-00	
	25	961.5	D011-02	
	50	1900	D011-04	

BUFFERS

Acetate Buffer pH 4.5 Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D017-00	
	25	961.5	D017-02	
	50	1900	D017-04	
Potassium Phosphate pH 5.8 Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D012-00	
	25	961.5	D012-02	
	50	1900	D012-04	
Potassium Phosphate pH 6.0 Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D013-00	
	25	961.5	D013-02	
	50	1900	D013-04	
Potassium Phosphate pH 6.8 Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box= 6), ask for the special box price.	6	230.8	D014-00	
	25	961.5	D014-02	
	50	1900	D014-04	
Potassium Phosphate pH 7.2 Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D015-00	
	25	961.5	D015-02	
	50	1900	D015-04	
Potassium Phosphate pH 7.4 Also available per box (qty per box=12), ask for special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.80	D019-00	
	25	961.50	D019-02	
	50	1900	D019-04	

Dissolution Media

DILUT-IT Dissolution Media Concentrates

	Dilute to volume of (l)	Product Size (ml)	Product Number	
BUFFERS				
Potassium Phosphate pH 7.5 Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D016-00	
	25	961.5	D016-02	
	50	1900	D016-04	
Sodium Phosphate pH 6.8 Also available per box (qty per box=12), ask for the special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D021-00	
	25	961.5	D021-02	
	50	1900	D021-04	
SPECIAL APPLICATIONS				
Simulated Gastric Fluid (without enzyme) Also available per box (qty per box=12), ask for special box price. Also available per box (qty per box=6), ask for the special box price. Also available per box (qty per box=6), ask for the special box price.	6	230.8	D020-00	
	25	961.5	D020-02	
	50	1900	D020-04	
Sodium Lauryl Sulfate 0.50% Also available per box (qty per box=12), ask for the special box price.	6	400	D018-01	

Packaging Appendix

Packaging Appendix of Most Common Containers

The following Packaging Appendix contains information about many of Avantor Performance Materials most common packaging configurations and is organized by product type with specifications and photos.

All Avantor packaging is designed with purity, safety, and convenience in mind. For detailed information on packaging that does not appear in this catalog, please contact Customer Service at 0031 570 687500.

Package Type		Septum-Seal Cap	Septum-Seal Cap	Amber Poly Coated
				
Description		4 oz amber round glass bottle with septum seal cap	1 l amber round glass bottle with septum seal cap	4 l round amber glass bottle with an outer PVC coating
Material of Construction	Container	Soda lime glass type III	Soda lime glass type III	Soda lime glass type III with PVC coating
	Cap	Polypropylene 0.45" hole	Polypropylene 0.45" hole	Polypropylene
	Cap Liner	Teflon composite liner	Teflon composite liner	Teflon
	Gasket			
Height (in)		4.780	8.766	13.406
Width or OD (in)		1.910	3.797	6.219
Package Weight (lb)		0.220	1.076	2.813
Height (cm)		12.141	22.266	34.052
Width or OD (cm)		4.841	9.644	15.796
Package Weight (kg)		0.101	0.489	1.276
Thread (neck finish)		38/439 Finish	38/439 Finish	38/439 Finish
Special Features		Septum cap allows multiple penetrations while still maintaining low water content.	Septum cap allows multiple penetrations while still maintaining low water content.	Poly coated bottle to prevent shattering upon impact.

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Package Type		Amber Glass	Amber Glass	Amber Glass
				
Description		500 ml round amber glass bottle	1 l round amber glass bottle	1 l amber round bottle
Material of Construction	Container	Soda lime glass type III	Soda lime glass type III	Soda lime glass type III
	Cap	Polypropylene	Polypropylene, tamper evident	Polypropylene
	Cap Liner	Pulp and tin foil	Teflon	Teflon
	Gasket			
Height (in)		7.734	8.580	8.766
Width or OD (in)		3.000	4.000	3.797
Package Weight (lb)		0.686	1.540	1.076
Height (cm)		19.644	21.793	22.266
Width or OD (cm)		7.620	10.160	9.644
Package Weight (kg)		0.311	0.699	0.489
Thread (neck finish)		38/439 Finish	DIN 45 Finish	38/439 Finish
Special Features			Compatible with Karl Fischer instruments.	

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Amber Glass	Amber Glass	Poly
				
Description		2.5 l round amber glass	4 l amber glass	4 l polyethylene bottle
Material of Construction	Container	Soda lime glass type III	Soda lime glass type III	HDPE
	Cap	Polypropylene, tamper evident	Polypropylene	Polypropylene
	Cap Liner	Teflon	Teflon	Polypropylene
	Gasket			
Height (in)		12	13.406	13.600
Width or OD (in)		6	6.219	6.120
Package Weight (lb)		2.860	2.813	0.419
Height (cm)		30.45	34.052	34.544
Width or OD (cm)		15.23	15.796	15.545
Package Weight (kg)		1.297	1.276	0.190
Thread (neck finish)		DIN 45 Finish	38/439 Finish	38/439 Finish
Special Features		Compatible with Karl Fischer instruments.		

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Package Type		Poly PB	HDPE Drum	HDPE Drum
				
Description		4 l pressure bottom polyethylene bottle	25 l High density polyethylene drum	200 l High density polyethylene drum
Material of Construction	Container	HDPE with molded handle	HDPE	HDPE
	Cap	Polypropylene	HDPE	PP
	Cap Liner	Polypropylene		
	Gasket			
Height (in)		13.730	18,1	36,8
Width or OD (in)		6.031	9,6	22,8
Lenght (in)			11,7	0,0
Package Weight (lb)		0.467	2,78	18,96
Height (cm)		34.874	46	93,5
Width or OD (cm)		15.319	24,5	57,8
Lenght (cm)			29,7	
Package Weight (kg)		0.212	1,26	8,6
Thread (neck finish)		38/439 finish		
Special Features				

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Bottle Alu	Steel Drum	CYCLE-TAINER System
				
Description		1 l aluminium bottle	25 l Tinned steel drum	20 l Stainless steel returnable positive pressure solvent system
Material of Construction	Container	Aluminium	Steel	304 stainless steel with internal passivation by electropolishing
	Cap	PP		Swagelok Quick-Connect fitting color-coded for a specific chemical
	Cap Liner	PTFE		Teflon
	Gasket			
Height (in)		11,6	19,3	18,35
Width or OD (in)		6,9	11,2	14,29
Package Weight (lb)		0,95	4,41	30,86
Height (cm)		29,4	49,1	46,6
Width or OD (cm)		17,5	28,5	36,3
Package Weight (kg)		0,43	2	14
Thread (neck finish)		a Plus 45 neck	2" en 3/4" TRI Sure BSP Thread type	
Special Features				

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Package Type		CYCLE-TAINER System	CYCLE-TAINER System	CYCLE-TAINER System	CYCLE-TAINER System
					
Description		50 Stainless steel returnable positive pressure solvent system	200 Stainless steel returnable positive pressure solvent system	1000 Stainless steel returnable positive pressure solvent system	1400 Stainless steel returnable positive pressure solvent system
Material of Construction	Container	304 stainless steel with internal passivation by electropolishing	304 stainless steel with internal passivation by electropolishing	304 stainless steel with internal passivation by electropolishing	304 stainless steel with internal passivation by electropolishing
	Cap	Swagelok Quick-Connect fitting color-coded for a specific chemical	Swagelok Quick-Connect fitting color-coded for a specific chemical	Swagelok Quick-Connect fitting color-coded for a specific chemical	Swagelok Quick-Connect fitting color-coded for a specific chemical
	Cap Liner	Teflon	Teflon	Teflon	Teflon
	Gasket				
Height (in)		29,72	41,73	63,39	72,05
Width or OD (in)		14,29	23,62	47,24	47,24
Package Weight (lb)		42,11	114,64	473,98	544,53
Height (cm)		75,5	106	161	183
Width or OD (cm)		36,3	60	120	120
Package Weight (kg)		19,1	52	215	247
Thread (neck finish)					
Special Features					

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Steel Drum	Steel Drum	Steel Drum
				
Description		25 l Tinned steel drum	200 l Coated steel drum	55 gal steel drum
Material of Construction	Container	Steel	Steel	Cold rolled low carbon steel
	Cap			Rieke flanges and zinc plated (electroplated steel) plugs or plastic plugs (2" and 3/4" plug available)
	Cap Liner			Irradiated Polyethylene
	Gasket			
Height (in)		19,3	34,7	34.375
Width or OD (in)		11,2	23,1	23.594
Package Weight (lb)		4,41	46,30	37.500
Height (cm)		49,1	88,2	87.313
Width or OD (cm)		28,5	58,7	59.929
Package Weight (kg)		2	21	17.010
Thread (neck finish)		2" en 3/4" TRI Sure BSP Thread type	2" TRI Sure BSP Thread type	
Special Features				Compatible with many pumps for dispensing. Provides grounding option. Tamper evident cap.

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		Bottle Glass	Amber Glass	Amber Glass
				
Description		15 ml amber colored glass bottle	30 cc wide mouth amber glass	60 cc wide mouth amber glass
Material of Construction	Container	Glas	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment
	Cap	PP	Phenolic	Phenolic
	Cap Liner	PTFE on Expanded PE	Polyethylene	Polyethylene
	Gasket			
Height (in)		0,0	2.516	3
Width or OD (in)		0,0	1.5	1.75
Package Weight (lb)		0,08	0.11	0.15
Height (cm)			6.39	7.62
Width or OD (cm)			3.81	4.45
Package Weight (kg)		0,037	0.05	0.07
Thread (neck finish)			28/400	33/400
Special Features				

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Amber Glass	Amber Glass	Amber Glass
				
Description		150 cc wide mouth amber glass	300 cc wide mouth amber glass	500 cc wide mouth amber glass
Material of Construction	Container	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment
	Cap	Polypropylene; tamper evident	Polypropylene; tamper evident	Polypropylene; tamper evident
	Cap Liner	Teflon/polyethylene	Teflon/polyethylene	Teflon/polyethylene
	Gasket			
Height (in)		4.25	5.409	6.183
Width or OD (in)		2.2	2.641	3.25
Package Weight (lb)		0.41	0.62	0.9
Height (cm)		10.80	13.74	15.70
Width or OD (cm)		5.59	6.71	8.26
Package Weight (kg)		0.19	0.28	0.41
Thread (neck finish)		DIN45	DIN54	DIN54
Special Features			Tamper evident break away ring.	Tamper evident break away ring.

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		Amber Glass	Amber Glass	Poly
				
Description		950 cc wide mouth amber glass	2500 cc wide mouth amber glass	120 cc wide mouth square poly
Material of Construction	Container	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment	HDPE
	Cap	Polypropylene; tamper evident	Polypropylene; tamper evident	Polypropylene; tamper evident
	Cap Liner	Teflon/polyethylene	Teflon/polyethylene	
	Gasket			
Height (in)		7.428	10.048	4.33
Width or OD (in)		3.828	5.422	2.36
Package Weight (lb)		0.93	1.06	0.06
Height (cm)		18.87	25.52	11.00
Width or OD (cm)		9.72	13.77	5.99
Package Weight (kg)		0.42	0.48	0.03
Thread (neck finish)		DIN54	DIN80	DIN45
Special Features		Tamper evident break away ring.		

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Poly	Poly	Poly
				
Description		300 cc wide mouth square poly	500 cc wide mouth square poly	1000 cc wide mouth square poly
Material of Construction	Container	HDPE	HDPE	HDPE
	Cap	Polypropylene; tamper evident	Polypropylene; tamper evident	Polypropylene; tamper evident
	Cap Liner			
	Gasket			
Height (in)		5.11	6.3	7.28
Width or OD (in)		2.36	3	3.74
Package Weight (lb)		0.073	0.1	0.16
Height (cm)		12.98	16.00	18.49
Width or OD (cm)		5.99	7.62	9.50
Package Weight (kg)		0.03	0.05	0.07
Thread (neck finish)		DIN45	DIN45	DIN45
Special Features				

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		Poly	Poly	Flowmor System
				
Description		1500 cc wide mouth square poly	2500 cc wide mouth square poly	3.5 gal open head poly pail
Material of Construction	Container	HDPE	HDPE	HDPE with Tyvek liner
	Cap	Polypropylene; tamper evident	Polypropylene; tamper evident	HDPE
	Cap Liner			
	Gasket			Polyurethane
Height (in)		9.5	10.55	10.65
Width or OD (in)		3.74	5	14.13
Package Weight (lb)		0.21	0.275	2.58
Height (cm)		24.13	26.80	27.05
Width or OD (cm)		9.50	12.70	35.89
Package Weight (kg)		0.10	0.12	1.17
Thread (neck finish)		DIN45	DIN80	
Special Features				Includes desiccant bag between liner and drum. Combination of liner, drum and desiccant keeps material free flowing. Tamper evident cable tie.

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Poly Pail	Poly Pail	Poly Pail
				
Description		2 gal open head poly pail	3.5 gal open head poly pail	5 gal open head poly pail
Material of Construction	Container	HDPE with LDPE liner	HDPE with LDPE liner	HDPE with LDPE liner
	Cap	HDPE	HDPE	HDPE
	Cap Liner			
	Gasket	Polyurethane	Polyurethane	Polyurethane
Height (in)		10.13	10.65	14.51
Width or OD (in)		11.28	14.13	14.13
Package Weight (lb)		1.71	2.58	3.23
Height (cm)		25.73	27.05	36.86
Width or OD (cm)		28.65	35.89	35.89
Package Weight (kg)		0.78	1.17	1.47
Thread (neck finish)				
Special Features		Tamper evident cable tie.	Tamper evident cable tie.	Tamper evident cable tie.

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		Poly Drum	Poly Drum
			
Description		14 gal open head poly drum	30 gal open head poly drum
Material of Construction	Container	HDPE with LDPE liner	HDPE with LDPE liner
	Cap		
	Cap Liner		
	Gasket		
Height (in)		26	30
Width or OD (in)		14.75	21.5
Package Weight (lb)		8.2	15.9
Height (cm)		66.04	76.20
Width or OD (cm)		37.47	54.61
Package Weight (kg)		3.72	7.21
Thread (neck finish)			
Special Features		Tamper evident galvanized metal ring with wire hasps.	Tamper evident galvanized metal ring with wire hasps.

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Poly Coated	Poly Coated	Glass
				
Description		500 ml narrow mouth clear glass with PVC coating	2.5 l narrow mouth clear glass with PVC coating	500 ml narrow mouth clear glass
Material of Construction	Container	Soda lime glass type III with internal treatment	Soda lime glass type III with internal treatment	Soda lime glass type III with internal treatment
	Cap	Polypropylene	Polypropylene	Polypropylene
	Cap Liner	LDPE	LDPE	LDPE
	Gasket			
Height (in)		7.766	12.203	7.766
Width or OD (in)		3	5.39	3
Package Weight (lb)		0.686	2.3	0.686
Height (cm)		19.73	31.00	19.73
Width or OD (cm)		7.62	13.69	7.62
Package Weight (kg)		0.31	1.04	0.31
Thread (neck finish)		38/439	38/439	38/439
Special Features		Internally treated with difluoroethane to prevent leaching of sodium from glass. PVC prevents bottle from shattering and keeps chemical inside if broken.	Internally treated with difluoroethane to prevent leaching of sodium from glass. PVC prevents bottle from shattering and keeps chemical inside if broken.	Internally treated with difluoroethane to prevent leaching of sodium from glass. Designed with a drip ring to prevent dripping during dispensing.

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		Glass	HDPE Bottle	HDPE Bottle
				
Description		2.5 l narrow mouth clear glass	1 l High density polyethylene bottle narrow neck	2,5 l High density polyethylene bottle narrow neck
Material of Construction	Container	Soda lime glass type II with internal treatment	HDPE	HDPE
	Cap	Polypropylene	PP-PE	PP-PE
	Cap Liner	LDPE	Teflon	Teflon
	Gasket			
Height (in)		12.203	0,0	0,0
Width or OD (in)		5.391	0,0	0,0
Package Weight (lb)		2.3	0,28	0,55
Height (cm)		31.00		
Width or OD (cm)		13.69		
Package Weight (kg)		1.04	0,125	0,25
Thread (neck finish)		38/439		
Special Features		Internally treated with difluoroethane to prevent leaching of sodium from glass. Designed with a drip ring to prevent dripping during dispensing.		

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Poly PB	Poly	Poly
				
Description		4 l high pressure bottom poly	500 ml boston round poly	4 l round poly
Material of Construction	Container	HDPE	HDPE	HDPE
	Cap	Polypropylene	Polypropylene	Polypropylene
	Cap Liner	LDPE		LDPE
	Gasket			
Height (in)		13.73	6.34	13.6
Width or OD (in)		6.031	3.062	6.12
Package Weight (lb)		0.466	0.07	0.42
Height (cm)		34.87	16.10	34.54
Width or OD (cm)		15.32	7.78	15.54
Package Weight (kg)		0.21	0.03	0.19
Thread (neck finish)		38/439		38/439
Special Features		Designed for chemicals that develop high pressure during transit or storage.	Designed with a spout for easy dispensing.	

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		HDPE Bottle	Poly	Teflon
				
Description		5 l Transparant polyethylene bottle	32 oz round poly	500 ml round Teflon
Material of Construction	Container	HDPE	HDPE	Teflon
	Cap	PP-PE		Teflon
	Cap Liner	Teflon	LDPE	
	Gasket			
Height (in)		12,2	8.3	7
Width or OD (in)		6,6	3.6	2.75
Package Weight (lb)		0,66	0.15	0.25
Height (cm)		30,9	21.08	17.78
Width or OD (cm)		16,7	9.14	6.99
Package Weight (kg)		0,3	0.07	0.11
Thread (neck finish)				
Special Features				Teflon dispenser system available (See page 46 for additional details).

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Teflon	Ampoule	Steel / HDPE Drum
				
Description		2 l round Teflon	poly ampoule	25 l drum with Polyethylene inner liner
Material of Construction	Container	Teflon	LDPE	ST/HDPE
	Cap	Teflon		PP
	Cap Liner			
	Gasket			
Height (in)		9.25		22,2
Width or OD (in)		4.5	1.38	10,7
Length (in)			7.13	0,0
Package Weight (lb)		0.8	0.08	7,72
Height (cm)		23.50		56,4
Width or OD (cm)		11.43	3.51	27,1
Length (cm)			18.11	
Package Weight (kg)		0.36	0.04	3,5
Thread (neck finish)				
Special Features		Teflon dispenser system available (See page 46 for additional details).	Designed for 1 time use	

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		Steel/ HDPE Drum	Returnable IBC	Returnable IBC
				
Description		200 l steel drum with Polyethylene inner liner	220 gal intermediate bulk container (IBC)	330 gal intermediate bulk container (IBC)
Material of Construction	Container	ST/HDPE	HDPE	HDPE
	Cap	HDPE	2" Buttress HDPE	2" Buttress HDPE
	Cap Liner			
	Gasket		Viton	Teflon encapsulated
Height (in)		34,8	53.75	70
Width or OD (in)		22,4	46	46
Package Weight (lb)		8,82	268	309
Height (cm)		88,4	136.53	177.80
Width or OD (cm)		57	116.84	116.84
Package Weight (kg)		4	121.56	140.16
Thread (neck finish)				
Special Features			Snyder tote, keyed dip tube, customer dedicated.	Snyder tote, keyed dip tube, customer dedicated.

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Amber Glass	Amber Glass	Amber Glass
				
Description		500 ml narrow mouth amber glass	1 l narrow mouth amber glass	4 l narrow mouth amber glass
Material of Construction	Container	Soda lime glass type II with internal treatment	Soda lime glass type III without internal treatment	Soda lime glass type III without internal treatment
	Cap	Polypropylene	Phenolic	Phenolic
	Cap Liner	Teflon	Teflon	Pulp & tin foil
	Gasket			
Height (in)		7.7	8.75	13.39
Width or OD (in)		3	3.78	6.22
Package Weight (lb)		0.6864	1.076	2.8
Height (cm)		19.56	22.23	34.01
Width or OD (cm)		7.62	9.60	15.80
Package Weight (kg)		0.31	0.49	1.27
Thread (neck finish)		38/439	38/439	38/439
Special Features		Internally treated with difluoroethane to prevent leaching of sodium from glass.		

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type		Poly PB	Poly PB	Poly
				
Description		500 ml footed bottom round poly	4 l high pressure bottom poly	500 ml Boston round poly
Material of Construction	Container	HDPE	HDPE	HDPE
	Cap	Polypropylene	Polypropylene	Polypropylene
	Cap Liner	LDPE	LDPE	
	Gasket			
Height (in)		7.621	13.73	6.34
Width or OD (in)		2.937	6.031	3.062
Package Weight (lb)		0.1	0.466	0.07
Height (cm)		19.36	34.87	16.10
Width or OD (cm)		7.46	15.32	7.78
Package Weight (kg)		0.05	0.21	0.03
Thread (neck finish)		38/439	38/439	
Special Features		Designed for chemicals that develop high pressure during transit or storage.	Designed for chemicals that develop high pressure during transit or storage.	Designed with a spout for easy dispensing.

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		HDPE Bottle	Poly	PE Jerrycan
				
Description		5 l transparent polyethylen bottle	4 l round poly	5 l Polyethylene jerrycan DIN 51
Material of Construction	Container	HDPE	HDPE	PE
	Cap	PP-PE	Polypropylene	
	Cap Liner	Teflon	LDPE	
	Gasket			
Height (in)		12,2	13.6	10,3
Width or OD (in)		6,6	6.12	5,7
Length (in)		6,6		7,8
Package Weight (lb)		0,66	0.42	0,65
Height (cm)		30,9	34.54	26,2
Width or OD (cm)		16,7	15.54	14,4
Length (cm)		16,7		19,8
Package Weight (kg)		0,3	0.19	0,293
Thread (neck finish)			38/439	
Special Features				

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type	PE Jerrycan	PE Jerrycan	PE Jerrycan



Description		10 l Polyethylene jerrycan DIN 51	20 l Polyethylene jerrycan DIN 51	25 l Polyethylene jerrycan DIN 51
Material of Construction	Container	PE	PE	PE
	Cap			
	Cap Liner			
	Gasket			
Height (in)		13,2	15,4	18,0
Width or OD (in)		7,5	9,7	9,5
Length (in)		9,4	11,3	11,4
Package Weight (lb)		1,16	2,13	2,46
Height (cm)		33,5	39,1	45,8
Width or OD (cm)		19	24,6	24,1
Length (cm)		23,9	28,8	28,9
Package Weight (kg)		0,528	0,968	1,118
Thread (neck finish)				
Special Features				

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Packaging Appendix

Package Type		Ampoule	Cubitainer	Cubitainer
				
Description		poly ampoule	5 l bag inside a corrugated square box	20 l bag inside a corrugated square box
Material of Construction	Container	LDPE	Polyethylene	Polyethylene
	Cap		Polypropylene	Polypropylene
	Cap Liner		Polyethylene	Polyethylene
	Gasket			
Height (in)		1.38	8	12.25
Width or OD (in)		1.38	7.5	12.25
Length (in)		7.13	7.5	12.25
Package Weight (lb)		0.08	0.59	3.9
Height (cm)		3.51	20.32	31.12
Width or OD (cm)		3.51	19.05	31.12
Length (cm)		18.11	19.05	31.12
Package Weight (kg)		0.04	0.27	1.77
Thread (neck finish)				
Special Features		Designed for 1 time use.	Designed with a spigot for easy dispensing.	Designed with a spigot for easy dispensing.

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type	IBC	IBC



Description		220 gal intermediate bulk container (IBC)	330 gal intermediate bulk container (IBC)
Material of Construction	Container	HDPE	HDPE
	Cap	2" Buttress HDPE	2" Buttress HDPE
	Cap Liner		
	Gasket	Viton	Teflon encapsulated
Height (in)		53.75	70
Width or OD (in)		46	46
Length (in)		46	46
Package Weight (lb)		268	309
Height (cm)		136.53	177.80
Width or OD (cm)		116.84	116.84
Length (cm)		116.84	116.84
Package Weight (kg)		121.56	140.16
Thread (neck finish)			
Special Features		Snyder tote, keyed dip tube, customer dedicated.	Snyder tote, keyed dip tube, customer dedicated.

Abbreviations:
HDPE—High Density Polyethylene
EPDM—Ethylene Propylene Durometer
LDPE—Low Density Polyethylene

Actinides

Atomic Weights

The atomic weights of many elements are not invariant, but depend on the origin and treatment of the material. The standard values of $A_r(E)$ and the uncertainties, which are shown following the last significant figure to which they are attributed, apply to elements of natural terrestrial origin. When used with due regard to the footnotes, they are considered reliable to ± 1 in the last digit, unless otherwise stated. The footnotes to this table elaborate the types of variation that may occur for individual elements and that may be larger than the listed uncertainties of values of $A_r(E)$. For elements that have no stable nuclides, the mass number of the nuclide with the longest confirmed half-life is listed in parenthesis. The information is used with permission of the International Union of Pure and Applied Chemistry, © 2006 IUPAC. Pure & Applied Chemistry 78, pp. 2051–2066

Atomic Weights of the Elements, 2005 — Scaled to $A_r(^{12}\text{C}) = 12$.

Name	Atomic Number	Atomic Weight	Note	Name	Atomic Number	Atomic Weight	Note
Actinium (Ac)	89	(227)	a	Einsteinium (Es)	99	(252)	a
Aluminum (Al)	13	26.9815386±8	—	Erbium (Er)	68	167.259±3	b
Americium (Am)	95	(243)	a	Europium (Eu)	63	151.964	b
Antimony (Stibium) (Sb)	51	121.760	b	Fermium (Fm)	100	(257)	a
Argon (Ar)	18	39.948	b, d	Fluorine (F)	9	18.9984032	—
Arsenic (As)	33	74.92160±2	—	Francium (Fr)	87	(223)	a
Astatine (At)	85	(210)	a	Gadolinium (Gd)	64	157.25±3	b
Barium (Ba)	56	137.327±7	—	Gallium (Ga)	31	69.723	—
Berkelium (Bk)	97	(247)	a	Germanium (Ge)	32	72.64	—
Beryllium (Be)	4	9.012182±3	—	Gold (Au)	79	196.966569±4	—
Bismuth (Bi)	83	208.98040	—	Hafnium (Hf)	72	178.49±2	—
Bohrium (Bh)	107	(264)	a	Hassium (Hs)	108	(277)	a
Boron (B)	5	10.811±7	b, c, d	Helium (He)	2	4.002602±2	b, d
Bromine (Br)	35	79.904	—	Holmium (Ho)	67	164.93032±2	—
Cadmium (Cd)	48	112.411±8	b	Hydrogen (H)	1	1.00794±7	b, c, d
Calcium (Ca)	20	40.078±4	b	Indium (In)	49	114.818±3	—
Californium (Cf)	98	(251)	a	Iodine (I)	53	126.90447±3	—
Carbon (C)	6	12.0107±8	b, d	Iridium (Ir)	77	192.217±3	—
Cerium (Ce)	58	140.116	b	Iron (Fe)	26	55.845±2	—
Cesium (Cs)	55	132.9054519±2	—	Krypton (Kr)	36	83.798±2	b, c, d
Chlorine (Cl)	17	35.453±2	b, c, d	Lanthanum (La)	57	138.90547±7	b
Chromium (Cr)	24	51.9961±6	—	Lawrencium (Lr)	103	(262)	a
Cobalt (Co)	27	58.933195±5	—	Lead (Pb)	82	207.2	b, d
Copper (Cu)	29	63.546±3	d	Lithium (Li)	3	6.941±2	b, c, d
Curium (Cm)	96	(247)	a	Lutetium (Lu)	71	174.9668	b
Darmstadtium (Ds)	110	(271)	a	Magnesium (Mg)	12	24.3050±6	—
Dubnium (Db)	105	(262)	a	Manganese (Mn)	25	54.938045±5	—
Dysprosium (Dy)	66	162.500	a, b	Meitnerium (Mt)	109	(268)	a

a. Element has no stable nuclides. Three elements (Th, Pa, and U) have a characteristic terrestrial isotopic composition, and for these an atomic weight is tabulated.

b. Geological specimens are known in which the element has an isotopic composition outside the limits for normal material. The difference between the atomic weight of the element in such specimens and that given in the table may exceed the stated uncertainty.

c. Modified isotopic compositions may be found in commercially available material because it has been subjected to an undisclosed or inadvertent isotopic fractionation. Substantial deviations in atomic weight of the element from that given in the table can occur.

d. Range in isotopic composition of normal terrestrial material prevents a more precise $A_r(E)$ being given; the tabulated $A_r(E)$ value and uncertainty should be applicable to normal material.

Reference Information

Atomic Weights of the Elements, 2005 — Scaled to $A_r(^{12}\text{C}) = 12$.

Name	Atomic Number	Atomic Weight	Note	Name	Atomic Number	Atomic Weight	Note
Mendelevium (Md)	101	(258)	a	Rutherfordium (Rf)	104	(261)	a
Mercury (Hg)	80	200.59±2	—	Samarium (Sm)	62	150.36±2	b
Molybdenum (Mo)	42	95.96±2	b	Scandium (Sc)	21	44.955912±6	—
Neodymium (Nd)	60	144.242±3	b	Seaborgium (Sg)	106	(266)	a
Neon (Ne)	10	20.1797±6	b, c	Selenium (Se)	34	78.96±3	d
Neptunium (Np)	93	(237)	a	Silicon (Si)	14	28.0855±3	d
Nickel (Ni)	28	58.6934±4	—	Silver (Ag)	47	107.8682±2	b
Niobium (Nb)	41	92.90638±2	—	Sodium (Natrium) (Na)	11	22.98976928±2	—
Nitrogen (N)	7	14.0067±2	b, c	Strontium (Sr)	38	87.62	b, d
Nobelium (No)	102	(259)	a	Sulfur (S)	16	32.065±5	b, d
Osmium (Os)	76	190.23±3	b	Tantalum (Ta)	73	180.94788±2	—
Oxygen (O)	8	15.9994±3	b, d	Technetium (Tc)	43	(98)	a
Palladium (Pd)	46	106.42	b	Tellurium (Te)	52	127.60±3	b
Phosphorus (P)	15	30.973762±2	—	Terbium (Tb)	65	158.92535±2	—
Platinum (Pt)	78	195.084±9	—	Thallium (Tl)	81	204.3833±2	—
Plutonium (Pu)	94	(244)	a	Thorium (Th)	90	232.03806±2	a, b
Polonium (Po)	84	(209)	a	Thulium (Tm)	69	168.93421±2	—
Potassium (Kalium) (K)	19	39.0983	—	Tin (Sn)	50	118.710±7	b
Praseodymium (Pr)	59	140.90765±2	—	Titanium (Ti)	22	47.867	—
Promethium (Pm)	61	(145)	a	Tungsten (Wolfram) (W)	74	183.84	—
Protactinium (Pa)	91	231.03588±2	a	Uranium (U)	92	238.02891±3	a, b, c
Radium (Ra)	88	(226)	a	Vanadium (V)	23	50.9415	—
Radon (Rn)	86	(222)	a	Xenon (Xe)	54	131.293±6	b, c
Rhenium (Re)	75	186.207	—	Ytterbium (Yb)	70	173.04	b
Rhodium (Rh)	45	102.90550±2	—	Yttrium (Y)	39	88.90585±2	—
Roentgenium	111	(272)	a	Zinc (Zn)	30	65.38±2	—
Rubidium (Rb)	37	85.4678±3	b	Zirconium (Zr)	40	91.224±2	b
Ruthenium (Ru)	44	101.07±2	b				

a. Element has no stable nuclides. Three elements (Th, Pa, and U) have a characteristic terrestrial isotopic composition, and for these an atomic weight is tabulated.

b. Geological specimens are known in which the element has an isotopic composition outside the limits for normal material. The difference between the atomic weight of the element in such specimens and that given in the table may exceed the stated uncertainty.

c. Modified isotopic compositions may be found in commercially available material because it has been subjected to an undisclosed or inadvertent isotopic fractionation. Substantial deviations in atomic weight of the element from that given in the table can occur.

d. Range in isotopic composition of normal terrestrial material prevents a more precise $A_r(\text{E})$ being given; the tabulated $A_r(\text{E})$ value and uncertainty should be applicable to normal material.

Units of measure conversion factors

Percent	Parts per Million	Parts per Billion	Parts per Trillion	Prefix	Factor	Fraction
.001% =	10 ppm =	—	—	centi	10 ⁻²	1/100 (part per hundred)
.0001% =	1 ppm =	1,000 ppb =	1,000,000 ppt	milli	10 ⁻³	1/1,000 (part per thousand)
.00001% =	.1 ppm =	100 ppb =	100,000 ppt	micro	10 ⁻⁶	1/1,000,000 (ppm, part per million)
.000001% =	.01 ppm =	10 ppb =	10,000 ppt	nano	10 ⁻⁹	1/1,000,000,000 (ppb, part per billion)
—	.001 ppm =	1 ppb =	1,000 ppt	pico	10 ⁻¹²	1/1,000,000,000,000 (ppt, part per trillion)
—	.0001 ppm =	.1 ppb =	100 ppt	femto	10 ⁻¹⁵	1/1,000,000,000,000,000 (ppq, part per quadrillion)
—	—	.01 ppb =	10 ppt			
—	—	.001 ppb =	1 ppt	atto	10 ⁻¹⁸	1/1,000,000,000,000,000,000 (part per quintillion)

Weight Conversion Table¹

From/To	g	kg	metric ton	grain	oz	lb
g	1	0.001	1 x 10 ⁻⁶	15.43	0.03527	0.00220
kg	1000	1	0.001	1.54 x 10 ⁴	35.27	2.205
metric ton	1 x 10 ⁶	1000	1	1.54 x 10 ⁷	3.53 x 10 ⁴	2205
grain	6.48 x 10 ⁻²	6.48 x 10 ⁻⁵	6.48 x 10 ⁻⁵	1	2.29 x 10 ⁻³	1.43 x 10 ⁻⁴
oz	28.35	0.02835	2.83 x 10 ⁻⁵	437.5	1	0.06250
lb	453.6	0.4536	4.54 x 10 ⁻⁴	7000	16	1

¹ To convert from a unit shown in the left column, multiply by the factor listed in the column for the desired unit.

Volume Conversion Table¹ (metric and U.S. Liquid measures)

From/To	cm ³	liter	m ³	in ³	ft ³	yd ³	fl oz	fl pt	fl qt	gal
cm ³	1	0.001	1 x 10 ⁻⁶	0.06102	3.53 x 10 ⁻⁵	1.31 x 10 ⁻⁶	0.03381	0.00211	0.00106	2.64 x 10 ⁻⁴
liter	1000	1	0.001	61.02	0.03532	0.00131	33.81	2.113	1.057	0.2642
m ³	1 x 10 ⁶	1000	1	6.10 x 10 ⁴	35.31	1.308	3.38 x 10 ⁴	2113	1057	264.2
in ³	16.39	0.01639	1.64 x 10 ⁻⁵	1	5.79 x 10 ⁻⁴	2.14 x 10 ⁻⁵	0.5541	0.03463	0.01732	0.00433
ft ³	2.83 x 10 ⁴	28.32	0.02832	1728	1	0.03704	957.5	69.84	29.92	7.481
yd ³	7.65 x 10 ⁵	764.5	0.7646	4.67 x 10 ⁴	27	1	2.59 x 10 ⁴	1616	807.9	202.0
fl oz	29.57	0.02957	2.96 x 10 ⁻⁵	1.805	0.00104	3.87 x 10 ⁻⁵	1	0.06250	0.03125	0.00781
fl pt	473.2	0.4732	4.73 x 10 ⁻⁴	28.88	0.01671	619 x 10 ⁻⁴	16	1	0.6000	0.1250
fl qt	946.4	0.9463	9.46 x 10 ⁻⁴	57.75	0.03342	0.00124	32	2	1	0.2500
gal	3785	3.786	0.00379	231.0	0.1337	0.00495	128	8	4	1

¹ To convert from a unit shown in the left column, multiply by the factor listed in the column for the desired unit.

Length Conversion Table¹

From/To	cm	m	km	in	ft	mile
cm	1	0.01	1 x 10 ⁻⁵	0.3937	0.03281	6.214 x 10 ⁻⁶
m	100	1	0.001	39.37	3.281	6.214 x 10 ⁻⁴
km	1 x 10 ⁵	1000	1	3.94 x 10 ⁴	3281	0.6214
in	2.540	0.02540	2.540 x 10 ⁻⁵	1	0.08333	1.578 x 10 ⁻⁵
ft	30.48	0.3048	3.048 x 10 ⁻⁴	12	1	18.94 x 10 ⁻⁴
mile	1.609 x 10 ⁵	1609	1.609	6.336 x 10 ⁴	5280	1

¹ To convert from a unit shown in the left column, multiply by the factor listed in the column for the desired unit.

Reference Information

Common Molecular Biology Conversion Factors¹

Factor	Value
Molecular weight (ave.) of DNA base pair	649 Da
Molecular weight (ave.) of amino acid	110 Da
1 g/ml DNA	3.08 μ M phosphate
1 g/ml of 1 kb DNA	3.08 nM 5' ends
1 mol pBR322 (4363 bp)	2.83 g
1 pmol linear pBR322 5' ends	1.4 g
1 A260 double-stranded DNA	50 μ g/ml
1 A260 single-stranded DNA	37 μ g/ml
1 kb DNA:	333 amino acids of coding capacity $\approx$ 36,000 Da
	6.5×10^5 Da of double-stranded DNA (sodium salt)
	3.3×10^5 Da of single-stranded DNA (sodium salt)
	3.4×10^5 Da of single-stranded RNA (sodium salt)
10 kDa protein $\approx$ 91 amino acids $\approx$ 273 nucleotides	

¹ Short Protocols in Molecular Biology, edited by Frederick M. Ausubel, et al., Copyright © 1992 by Current Protocols.
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ACID/BASE CONCENTRATIONS—Composition of concentrated reagent grade acids, ammonium hydroxide, and sodium and potassium hydroxide solutions (with dilution directions to 1M and 1N solutions)

Chemical	Formula Weight of Reagent ^a	Approximate Density	Approximate Strength of Concentrated Reagent ^b	Assay Limits % w/w	Molarity of Concentrated Reagent	Milliliters of Concentrated Reagent Necessary to Prepare 1 Liter of 1 Molar Solution ^c	Normality of Concentrated Reagent	Milliliters of Concentrated Reagent Necessary to Prepare 1 Liter of 1 Normal Solution ^c
Acetic Acid (CH ₃ COOH)	60.052	1.05	99.8	99.7–99.9	17.4	57.5	17.4	57.5
Formic Acid (HCOOH)	46.026	1.13	90.0	88.0–92.0	23.6	42.5	23.6	42.5
Hydrochloric Acid (HCl)	36.461	1.18	37.2	36.5–38.0	12.1	82.5	12.1	82.5
Hydrofluoric Acid (HF)	20.006	1.19	49.0	48.0–51.0	28.9	34.5	28.9	34.5
Nitric Acid (HNO ₃)	63.013	1.41	69.6	69.0–70.0	15.6	64.0	15.6	63.0
Perchloric Acid (HClO ₄)	100.458	1.67	70.5	70.0–72.0	11.7	85.5	11.7	85.5
Perchloric Acid (HClO ₄)	100.458	1.67	61.3	60.0–62.0	9.5	105.5	9.5	105.5
Phosphoric Acid (H ₃ PO ₄)	97.995	1.71	85.5	85.0–87.0	14.8	67.5	44.4	22.5
Sulfuric Acid (H ₂ SO ₄)	98.073	1.84	96.0	95.0–98.0	18.0	55.5	36.0	28.0
Ammonium Hydroxide (NH ₄ OH)	35.046	0.90	56.6d	—	14.5	69.0	14.5	69.0
Sodium Hydroxide (NaOH)	39.997	1.53	50.5	50.0–52.0	19.4	51.5	19.4	51.5
Potassium Hydroxide (KOH)	56.105	1.45	45.0	45.0–46.0	11.7	85.5	11.7	85.5

a. Based on Atomic Weight Table (32C = 12).

b. Representative value, w/w %.

c. Rounded to nearest 0.5 ml.

d. Equivalent to 28.0 % w/w NH₃.

Physical Data for BAKER ANALYZED HPLC Solvents and Acids

Summary of Key Physical Data

Solvent	Eluotropic Value (ϵ') (on silica)	Polarity Index (p')	Viscosity (cP, 25 °C)	Density (g/ml)	Refractive Index (25 °)	Boiling Point (°C)
Acetic Acid, Glacial	>0.73	6.20	1.10	1.049	1.370	118
Acetone	0.43	5.40	0.30	0.791	1.356	56
Acetonitrile	0.50	6.20	0.34	0.786	1.341	82
Chloroform, Hydrocarbon Stabilized	0.26	4.40	0.53	1.483	1.443	61
Chloroform	0.31	4.40	0.53	1.483	1.443	61
Cyclohexane	0.03	0.00	0.90	0.774	1.423	81
o-Dichlorobenzene	N/A	N/A	1.33	1.306	1.551	180
Ether, Anhydrous	0.29	2.90	0.24	0.708	1.350	35
Ethyl Acetate	0.45	4.30	0.43	0.900	1.370	77
n-Heptane	0.00	0.20	0.40	0.684	1.385	98
Hexanes	0.00	0.06	0.30	0.659	1.372	69
Isobutyl Alcohol	0.54	3.00	4.70	0.802	1.384	108
Methanol	0.73	6.60	0.54	0.791	1.326	65
Methyl tert-Butyl Ether	0.29	N/A	0.28	0.758	1.368	55
Methylene Chloride	0.32	3.40	0.41	1.327	1.421	40
Methyl Ethyl Ketone	0.39	4.50	0.38	0.805	1.376	80
Pentane	0.00	0.00	0.22	0.626	1.355	36
2-Propanol	0.63	4.30	1.90	0.785	1.384	82
Pyridine	0.55	5.30	0.88	0.980	1.507	115
Tetrahydrofuran, Stabilized	0.35	4.20	0.46	0.881	1.405	66
Tetrahydrofuran	0.35	4.20	0.46	0.881	1.405	66
Toluene	0.22	2.40	0.55	0.867	1.494	110
1,2,4-Trichlorobenzene	N/A	N/A	N/A	1.450	1.572	215
2,2,4-Trimethylpentane	0.01	0.10	0.47	0.690	1.389	99
Water	>0.73	10.20	0.89	1.000	1.333	100

Reference Information

Particle Size¹

Sieve "Mesh"	Sieve Opening		Sieve "Mesh"	Sieve Opening		Sieve "Mesh"	Sieve Opening	
	Inches	Millimeters		Inches	Millimeters		Inches	Millimeters
1	1.00	25.4	6	0.132	3.36	50	0.0117	0.297
⅜	0.875	22.6	7	0.111	2.83	60	0.0098	0.250
¾	0.750	19.0	8	0.0937	2.38	70	0.0083	0.210
⅝	0.625	16.0	10	0.0787	2.00	80	0.0070	0.177
.530	0.530	13.5	12	0.0661	1.68	100	0.0059	0.149
½	0.500	12.7	14	0.0555	1.41	120	0.0049	0.125
⅞	0.438	11.2	16	0.0469	1.19	140	0.0041	0.105
⅜	0.375	9.51	18	0.0394	1.00	170	0.0035	0.088
⅝	0.312	8.00	20	0.0331	0.841	200	0.0029	0.074
.265	0.265	6.73	25	0.0278	0.707	230	0.0025	0.063
¼	0.250	6.35	30	0.0234	0.595	270	0.0021	0.053
3½	0.223	5.66	35	0.0197	0.500	325	0.0017	0.044
4	0.187	4.76	40	0.0165	0.420	400	0.0015	0.037
5	0.157	4.00	45	0.0139	0.354			

¹ Large sieve opening (1 to ¼ inch) have been designated a sieve "mesh" size that corresponds to the size of the opening in inches.

Sieve "mesh" sizes of 3½ and higher are designated by the number of openings per linear inch in the sieve.

Special conventions apply to particle sizing by mesh designation. A "+" before the sieve mesh indicates that all particles are too large to pass through the sieve; a "-" denotes complete

passage of material through the sieve. For example, the particle size of a material may be described as -4 +40 mesh, meaning the material goes through a 4-mesh sieve (particles are smaller than 4.76 mm) but remain on the 40-mesh sieve (particles are larger than 0.420 mm).

Note: To convert millimeters to microns, move decimal point three places to the right.

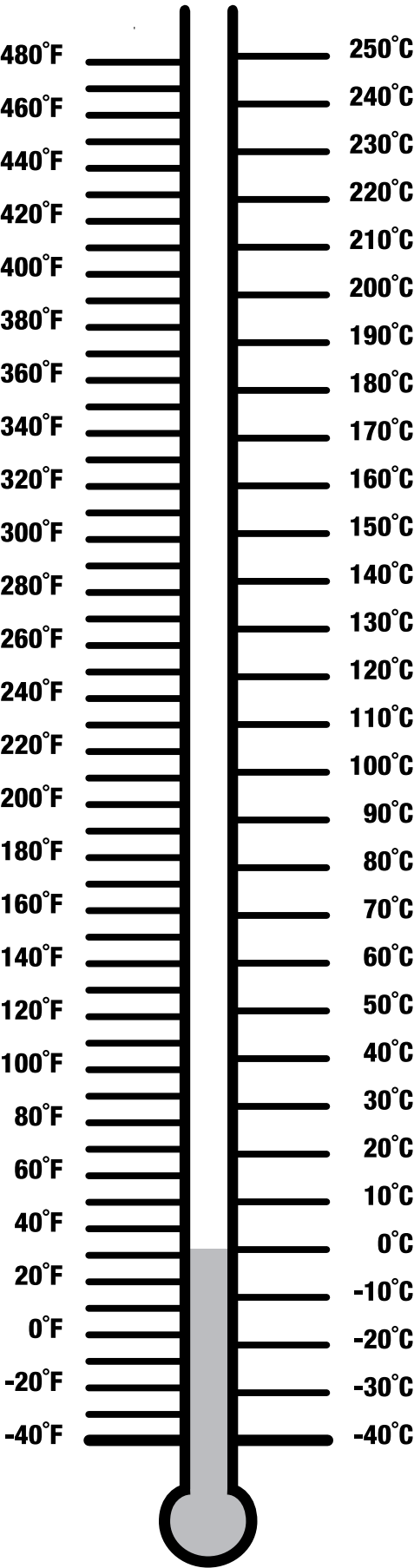
Example: 0.125 millimeters converts to 125 microns.

☒ Immiscible

☐ Miscible

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Reference Information



Temperature Conversion Formulas	
°C to °F	°F to °C
$(^{\circ}\text{C} \times 9/5) + 32 = ^{\circ}\text{F}$	$(^{\circ}\text{F} - 32) \times 5/9 = ^{\circ}\text{C}$
°C to °K	°F to °K
$(^{\circ}\text{C} + 273.15) = ^{\circ}\text{K}$	$(^{\circ}\text{F} + 459.67) \times 5/9 = ^{\circ}\text{K}$

Hazard and Precautionary statements

Hazard Statements

H200	Unstable explosives.
H201	Explosive; mass explosion hazard.
H202	Explosive, severe projection hazard.
H203	Explosive; fire, blast or projection hazard.
H204	Fire or projection hazard.
H205	May mass explode in fire.
H220	Extremely flammable gas.
H221	Flammable gas.
H222	Extremely flammable aerosol.
H223	Flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H240	Heating may cause an explosion.
H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H250	Catches fire spontaneously if exposed to air.
H251	Self-heating; may catch fire.
H252	Self-heating in large quantities; may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H261	In contact with water releases flammable gases.
H270	May cause or intensify fire; oxidiser.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H335+H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H350i	May cause cancer by inhalation.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H360Df	May damage the unborn child. Suspected of damaging fertility.

H360F	May damage fertility.
H360FD	May damage fertility. May damage the unborn child.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H362	May cause harm to breast-fed children.
H370	Causes damage to organs.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH001	Explosive when dry.
EUH006	Explosive with or without contact with air.
EUH014	Reacts violently with water.
EUH018	In use may form flammable/explosive vapour-air mixture.
EUH019	May form explosive peroxides.
EUH029	Contact with water liberates toxic gas.
EUH031	Contact with acids liberates toxic gas.
EUH032	Contact with acids liberates very toxic gas.
EUH044	Risk of explosion if heated under confinement.
EUH059	Hazardous to the ozone layer.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH070	Toxic by eye contact.
EUH071	Corrosive to the respiratory tract.
EUH201	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
EUH201A	Warning! Contains lead.
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH203	Contains chromium (VI). May produce an allergic reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
EUH207	Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
EUH208	Contains <name of sensitising substance>. May produce an allergic reaction.
EUH209	Can become highly flammable in use.
EUH209A	Can become flammable in use.
EUH210	Safety data sheet available on request.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Hazard and Precautionary statements

Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P102	Keep out of reach of children.	P302	IF ON SKIN:
P103	Read label before use.	P302+P334	IF ON SKIN: Immerse in cool water/wrap in wet bandages.
P201	Obtain special instructions before use.	P302+P350	IF ON SKIN: Gently wash with plenty of soap and water.
P202	Do not handle until all safety precautions have been read and understood.	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.	P303	IF ON SKIN (or hair):
P211	Do not spray on an open flame or other ignition source.	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P220	Keep/Store away from clothing/.../combustible materials.	P304	IF INHALED:
P221	Take any precaution to avoid mixing with combustibles...	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P222	Do not allow contact with air.	P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.	P305	IF IN EYES:
P230	Keep wetted with...	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P231	Handle under inert gas.	P306	IF ON CLOTHING:
P231+P232	Handle under inert gas. Protect from moisture.	P306+P360	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P232	Protect from moisture.	P307	IF exposed:
P233	Keep container tightly closed.	P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P234	Keep only in original container.	P308	IF exposed or concerned:
P235	Keep cool.	P308+P313	IF exposed or concerned: Get medical advice/attention.
P235+P410	Keep cool. Protect from sunlight.	P309	IF exposed or if you feel unwell:
P240	Ground/bond container and receiving equipment.	P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P241	Use explosion-proof electrical/ventilating/lighting/.../ equipment.	P310	Immediately call a POISON CENTER or doctor/physician.
P242	Use only non-sparking tools.	P311	Call a POISON CENTER or doctor/physician.
P243	Take precautionary measures against static discharge.	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P244	Keep reduction valves free from grease and oil.	P313	Get medical advice/attention.
P250	Do not subject to grinding/shock/.../friction.	P314	Get medical advice/attention if you feel unwell.
P251	Pressurized container: Do not pierce or burn, even after use.	P315	Get immediate medical advice/attention.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	P320	Specific treatment is urgent (see ... on this label).
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	P321	Specific treatment (see ... on this label).
P262	Do not get in eyes, on skin, or on clothing.	P322	Specific measures (see ... on this label).
P263	Avoid contact during pregnancy/while nursing.	P330	Rinse mouth.
P264	Wash ... thoroughly after handling.	P331	Do NOT induce vomiting.
P270	Do not eat, drink or smoke when using this product.	P332	If skin irritation occurs:
P271	Use only outdoors or in a well-ventilated area.	P332+P313	If skin irritation occurs: Get medical advice/attention.
P272	Contaminated work clothing should not be allowed out of the workplace.	P333	If skin irritation or rash occurs:
P273	Avoid release to the environment.	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P280	Wear protective gloves/protective clothing/eye protection/face protection.	P334	Immerse in cool water/wrap in wet bandages.
P281	Use personal protective equipment as required.	P335	Brush off loose particles from skin.
P282	Wear cold insulating gloves/face shield/eye protection.	P335+P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P283	Wear fire/flame resistant/retardant clothing.	P336	Thaw frosted parts with lukewarm water. Do not rub affected area.
P284	Wear respiratory protection.	P337	If eye irritation persists:
P285	In case of inadequate ventilation wear respiratory protection.	P337+P313	If eye irritation persists: Get medical advice/attention.
P301	IF SWALLOWED:	P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		

Hazard and Precautionary statements

P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342	If experiencing respiratory symptoms:
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P350	Gently wash with plenty of soap and water.
P351	Rinse cautiously with water for several minutes.
P352	Wash with plenty of soap and water.
P353	Rinse skin with water/shower.
P360	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P361	Remove/Take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370	In case of fire:
P370+P376	In case of fire: Stop leak if safe to do so.
P370+P378	In case of fire: Use ... for extinction.
P370+P378a*	In case of fire: Use for extinction: CO ₂ , powder or water spray.
P370+P380	In case of fire: Evacuate area.
P370+P380+P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P371	In case of major fire and large quantities:
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P372	Explosion risk in case of fire.
P373	DO NOT fight fire when fire reaches explosives.
P374	Fight fire with normal precautions from a reasonable distance.
P375	Fight fire remotely due to the risk of explosion.
P376	Stop leak if safe to do so.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P378	Use ... for extinction.
P380	Evacuate area.
P381	Eliminate all ignition sources if safe to do so.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P401	Store ...
P401a*	Store in accordance with local/regional/national/international regulations.
P402	Store in a dry place.
P402+P404	Store in a dry place. Store in a closed container.
P403	Store in a well-ventilated place.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P404	Store in a closed container.
P405	Store locked up.
P406	Store in corrosive resistant/... container with a resistant inner liner.
P407	Maintain air gap between stacks/pallets.
P410	Protect from sunlight.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
P411	Store at temperatures not exceeding ...°C/...°F.
P411+P235	Store at temperatures not exceeding ...°C/...°F. Keep cool.

P412	Do not expose to temperatures exceeding 50°C/ 122°F.
P413	Store bulk masses greater than ... kg/... lbs at temperatures not exceeding ...°C/...°F.
P420	Store away from other materials.
P422	Store contents under ...
P422a*	Store contents under inert gas.
P422b*	Store contents under protective gas.
P501	Dispose of contents/container to ...
P501a*	Dispose of contents/container in accordance with local/regional/national/international regulations.

* These specific statements are used by Avantor Performance Materials B.V. in order to supply more detailed safety information.

Note: The classification of our products and the assignment of associated Hazard and Precautionary statements are executed according to the European CLP regulation 1272/2008.

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67-56-1	8047	200-659-6	257	87-66-1	1171	201-762-9	320	127-18-4	9360	204-825-9	374
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0081	10101-41-4	231-900-3	146	0256	6131-90-4	204-823-8	330	0604	9048-46-8	232-936-2	102
0086	1333-82-0	215-607-8	155	0258	127-09-3	204-823-8	329	0619	632-99-5	211-189-6	169
0088	5949-29-1	201-069-1	156	0259	127-09-3	204-823-8	329	0620	150-90-3	205-778-7	357
0090	77-92-9	201-069-1	156	0263	144-55-8	205-633-8	341	0676	37267-86-0	253-433-4	290
0091	10026-22-9	233-402-1	159	0266	7631-90-5	231-548-0	342	0707	85-86-9	201-638-4	364
0095	6046-93-1	205-553-3	161	0267	7681-57-4	231-673-0	338	0709	63-74-1	200-563-4	365
0097	10125-13-0	231-210-2	162	0268	1303-96-4	215-540-4	182	0810			264
0099	3251-23-8	221-838-5	163	0270	1303-96-4	215-540-4	182	0902		272-489-0	148
0101	1317-38-0	215-269-1	163	0274	497-19-8	207-838-8	333	0903	1310-73-2	215-185-5	343
0104	7758-99-8	231-847-6	164	0277	7647-14-5	231-598-3	335	0908	10124-56-8	233-343-1	340
0105	7758-99-8	231-847-6	164	0278	7647-14-5	231-598-3	336	1002			102
0107	7758-98-7	231-847-6	164	0280	6132-04-3	200-675-3	336	1003	7429-90-5	231-072-3	103
0108	7758-89-6	231-842-9	162	0281	143-33-9	205-599-4	337	1010	7803-55-6	232-261-3	113
0112			169	0282	7789-12-0	234-190-3	337	1018	50-81-7	200-066-2	119
0113	50-99-7	200-075-1	201	0285	7681-49-4	231-667-8	340	1029	10035-06-0	233-791-8	125
0115	50-99-7	200-075-1	201	0287	141-53-7	205-488-0	340	1032	1304-76-3	215-134-7	125
0116			235	0288	1310-73-2	215-185-5	343	1039	10108-64-2	232-296-7	140
0118	7783-83-7	233-382-4	113	0293	7681-82-5	231-679-3	351	1043	7790-84-3	233-331-6	141
0119	10025-77-1	231-729-4	232	0294	7681-82-5	231-679-3	352	1046	7789-75-5	232-188-7	144
0121	7782-61-8	233-899-5	232	0295	10102-40-6	231-551-7	352	1050	16774-21-3	240-827-6	106
0122	1309-37-1	215-168-2	232	0296	7631-99-4	231-554-3	353	1052	302-17-0	206-117-5	150
0123	15244-10-7	233-072-9	232	0297	7632-00-0	231-555-9	353	1055	10060-12-5	233-038-3	155
0124	7783-85-9	233-151-8	112	0298	7632-00-0	231-555-9	354	1059	7791-13-1	231-589-4	158
0125	13478-10-9	213-843-4	231	0301	62-76-0	200-550-3	354	1065	548-62-9	208-953-6	165
0126	7782-63-0	231-753-5	233	0302	6834-92-0	229-912-9	352	1067	7789-45-9	232-167-2	161
0127	7782-63-0	231-753-5	233	0303	10049-21-5	231-449-2	338	1071	122-39-4	204-539-4	181
0134	7439-89-6	231-096-4	230	0304	10039-32-4	231-448-7	342	1073	6381-92-6	205-358-3	183
0138	10039-26-6	200-559-2	236	0305	7782-85-6	231-448-7	342	1099			229
0141	6080-56-4	206-104-4	238	0306	7558-79-4	231-448-7	342	1100			229
0148	10099-74-8	233-245-9	238	0307	10101-89-0	231-509-8	356	1107	1787-61-7	217-250-3	185
0154	1305-78-8	215-138-9	145	0308	10101-89-0	231-509-8	356	1109	60-00-4	200-448-9	191
0155	554-13-2	209-062-5	240	0309	13472-36-1	231-767-1	338	1110	1185-57-5	214-686-6	112
0156	7447-41-8	231-212-3	241	0311	7727-73-3	231-820-9	358	1115	123-31-9	204-617-8	224
0157	7447-41-8	231-212-3	241	0312	7757-82-6	231-820-9	357	1118	7553-56-2	231-442-4	228
0158	7790-69-4	232-218-9	241	0313	7757-82-6	231-820-9	357	1122	1309-48-4	215-171-9	244
0160	16674-78-5	205-554-9	243	0316	7757-83-7	231-821-4	358	1124	141-82-2	205-503-0	246
0161	12125-28-9	235-192-7	243	0317	6106-24-7	212-773-3	359	1125	69-65-8	200-711-8	248
0162	7791-18-6	232-094-6	243	0318	540-72-7	208-754-4	360	1128	1600-27-7	216-491-1	250
0163	7791-18-6	232-094-6	244	0319	10102-17-7	231-867-5	360	1131	7487-94-7	231-299-8	250
0164	13446-18-9	233-826-7	244	0320	7772-98-7	231-867-5	360	1133	7774-29-0	231-873-8	251
0169	10034-99-8	231-298-2	245	0321	10213-10-2	236-743-4	361	1134	10045-94-0	233-152-3	251
0170	1313-13-9	215-202-6	248	0322	10026-06-9	231-588-9	380	1136	21908-53-2	244-654-7	252
0172	598-62-9	209-942-9	247	0323	10025-69-1	231-868-0	379	1140	7783-35-9	231-992-5	252
0173	13446-34-9	231-869-6	247	0325	10025-69-1	231-868-0	379	1145	547-58-0	208-925-3	262
0174	10034-96-5	232-089-9	248	0326	10028-24-7	231-448-7	342	1146	493-52-7	207-776-1	263
0176	7782-91-4	231-970-5	266	0327	9005-25-8	232-679-6	362	1149	3051-09-0	221-266-6	268
0181	3333-67-3	222-068-2	269	0331	10025-70-4	233-971-6	363	1150	90-15-3	201-969-4	268
0183	7791-20-0	231-743-0	270	0334	57-50-1	200-334-9	364	1153	1313-99-1	215-215-7	270
0185	10101-97-0	232-104-9	270	0339	14807-96-6	238-877-9	371	1156	85-85-8	201-637-9	278
0187	6153-56-6	205-634-3	276	0340	87-69-4	201-766-0	372	1159	77-09-8	201-004-7	289
0188	108-95-2	203-632-7	289	0344	76-03-9	200-927-2	385	1171	87-66-1	201-762-9	320
0194	85-44-9	201-607-5	292	0345	57-13-6	200-315-5	394	1176	1303-86-2	215-125-8	126
0195	127-08-2	204-822-2	294	0346	57-13-6	200-315-5	394	1180	7783-90-6	232-033-3	325
0197	877-24-7	212-889-4	304	0357	5970-45-6	209-170-2	401	1182	7761-88-8	231-853-9	325
0198	7646-93-7	231-594-1	304	0360	7646-85-7	231-592-0	402	1183	10294-26-5	233-653-7	327
0199	16731-55-8	240-795-3	301	0362	10196-18-6	231-943-8	402	1190	13755-38-9	238-373-9	355
0202	7758-02-3	231-830-3	296	0363	1314-13-2	215-222-5	403	1192	7790-28-5	232-197-6	360
0204	584-08-7	209-529-3	296	0364	1314-13-2	215-222-5	403	1194	143-66-8	205-605-5	359
0205	584-08-7	209-529-3	296	0365	7446-20-0	231-793-3	404	1195	10213-10-2	236-743-4	362
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1217	1314-62-1	215-239-8	395	2039	50-70-4	200-061-5	362	4095	151-21-3	205-788-1	339
1219	8049-22-7		398	2054	87-69-4	201-766-0	372	4097	57-50-1	200-334-9	364
1231	90-44-8	201-994-0	117	2060	6381-92-6	205-358-3	183	4098	110-18-9	203-744-6	376
1240	9002-92-0		128	2064	5949-29-1	201-069-1	156	4103	1185-53-1	201-064-4	392
1255	7080-50-4	204-854-7	150	2173	22767-50-6	245-210-5	206	4109	77-86-1	201-064-4	391
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1295	140-22-7	205-403-7	181	2459	357-57-3	206-614-7	129	4153	75277-39-3		204
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1314	518-47-8	208-253-0	193	2685	67-56-1	200-659-6	257	4217	7732-18-5	231-791-2	397
1325	2437-29-8	219-441-7	245	2690	7296-20-1	230-732-8	179	4218	7732-18-5	231-791-2	397
1329	61-73-4	200-515-2	260	2790	110-16-7	203-742-5	245	4219	7732-18-5	231-791-2	396
1330	115-40-2	204-087-8	128	2794	55-55-0	200-237-1	258	4265	5625-37-6		292
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1465	12007-60-2	234-514-3	242	3321	124-68-5	204-709-8	105	4665		205-634-3	277
1468	18472-87-2	242-355-6	290	3351	4264-83-9	224-246-5	275	4667	7758-01-2	231-829-8	295
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1474	6104-59-2	228-060-5	159	3376	68855-54-9	272-489-0	148	4674	1310-58-3	215-181-3	307
1476	2353-45-9		192	3400	67-56-1	200-659-6	258	4676	7758-05-6	231-831-9	309
1504	56-40-6	200-272-2	202	3401	67-63-0	200-661-7	317	4681	7761-88-8	231-853-9	327
1511	76-60-8	200-972-8	128	3402	100-51-6	202-859-9	123	4682	7761-88-8	231-853-9	327
1513	76-59-5	200-971-2	129	3403	67-64-1	200-662-2	96	4683		207-838-8	334
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1563	57-48-7	200-333-3	199	3410	1330-20-7	215-535-7	399	4691	1310-73-2	215-185-5	350
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1616		203-473-3	293	3858	50-00-0	200-001-8	194	4704	7664-93-9	231-639-5	370
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1728	7440-50-8	231-159-6	159	3866			279	4796			131
1737	7778-77-0	231-913-4	301	3869			148	4797			132
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1758	6132-04-3	200-675-3	337	3871			185	4807	1336-21-6	215-647-6	112
1766	13472-36-1	231-767-1	338	3872			322	4850			129
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1995	77-92-9	201-069-1	156	4031	110-26-9	203-750-9	260	4890	57-50-1	200-334-9	364
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5714			199	6024	7664-38-2	231-633-2	291	6964			380
5716			104	6027	7664-93-9	231-639-5	366	6968	28300-74-5		117
5717			118	6037	64-18-6	200-579-1	197	7003	12135-76-1	235-223-4	115
5718			119	6051	1336-21-6	215-647-6	111	7010	100-51-6	202-859-9	122
5719			121	6052	64-19-7	200-580-7	93	7018	67-66-3	200-663-8	152
5720			124	6057	7664-93-9	231-639-5	367	7019	67-66-3	200-663-8	153
5721			125	6070	7647-01-0	231-595-7	217	7025	95-50-1	202-425-9	170
5722			127	6079	7664-39-3	231-634-8	223	7026	111-42-2	203-868-0	174
5723			140	6080	7697-37-2	231-714-2	274	7030	127-19-5	204-826-4	177
5724			142	6081	7647-01-0	231-595-7	215	7032	68-12-2	200-679-5	178
5727			155	6090	7697-37-2	231-714-2	274	7033	67-68-5	200-664-3	179
5728			158	6123	7699-45-8	231-718-4	401	7036	1310-73-2	215-185-5	346
5729			160	6124			228	7037	107-21-1	203-473-3	191
5730			203	6125	1336-21-6	215-647-6	110	7038	7647-01-0	231-595-7	220
5731			231	6147	7664-93-9	231-639-5	368	7040	50-00-0	200-001-8	193
5732			238	6162	1336-21-6	215-647-6	110	7041	50-00-0	200-001-8	194
5733			240	6163	7664-93-9	231-639-5	366	7042	75-12-7	200-842-0	196
5734			242	6164	1310-73-2	215-185-5	346	7044	56-81-5	200-289-5	201
5735			247	6165	1310-73-2	215-185-5	345	7045			309
5736			250	6166	64-18-6	200-579-1	198	7047	7722-84-1	231-765-0	224
5737			265	6167	7647-01-0	231-595-7	218	7048	7722-84-1	231-765-0	224
5738			269	6801			103	7053	75-09-2	200-838-9	173
5739			278	6802			118	7057	7722-64-7	231-760-3	312
5740			293	6803			119	7063	1310-58-3	215-181-3	305
5741			294	6804			120	7064	57-55-6	200-338-0	318
5742			322	6805			123	7067	1310-73-2	215-185-5	345
5743			322	6806			124	7078	102-71-6	203-049-8	386
5744			324	6807			140	7079	76-05-1	200-929-3	388
5745			325	6808			142	7085	95-48-7	202-423-8	165
5746			329	6809			154	7088	7647-01-0	231-595-7	219
5747			363	6810			157	7092		231-791-2	183
5748			371	6811			160	7093	67-68-5	200-664-3	179
5749			372	6812			230	7095	7761-88-8	231-853-9	326
5750			378	6813			237	7096	7761-88-8	231-853-9	326
5751			379	6814			240	7097	1310-73-2	215-185-5	347
5752			381	6815			242	7098	1310-73-2	215-185-5	349
5753			393	6816			246	7099	1310-73-2	215-185-5	349
5754			395	6817			250	7100	10102-17-7	231-867-5	361
5755			400	6818			265	7101	1010-21-7	231-867-5	361
5756			401	6819			269	7102	7664-93-9	231-639-5	369
5757			405	6820			294	7103	7664-93-9	231-639-5	369
5758			200	6821			325	7105	1310-73-2	215-185-5	347
5759			200	6822			329	7109	1310-73-2	215-185-5	345
5760			271	6823			363	7110	7664-93-9	231-639-5	369
5761			377	6824			379	7111	7647-01-0	231-595-7	220
5762			200	6825			381	7112	1310-73-2	215-185-5	348
5763			202	6826			395	7114	10294-42-5	237-029-5	148
5764			230	6827			400	7116	10043-52-4	233-140-8	144
5765			237	6900	7647-01-0	231-595-7	217	7117		200-540-9	142
5766			239	6901	7697-37-2	231-714-2	271	7119	7697-37-2	231-714-2	275
5767			242	6902	7664-93-9	231-639-5	367	7121			309
5768			249	6903	64-19-7	200-580-7	92	7122	1762-95-4	217-175-6	116
5769			265	6904	7664-39-3	231-634-8	222	7123			128
5770			268	6906	7732-18-5	231-791-2	396	7124		205-358-3	183
5771			270	6908	7664-38-2	231-633-2	291	7125	139-33-3	205-358-3	184
5772			278	6917			103	7126			183
5773			293	6919			119	7127			183
5774			294	6920			120	7128		231-441-9	229
5776			321	6921			123	7129	1310-58-3	215-181-3	306
5777			322	6922			124	7130	1310-58-3	215-181-3	306
5778			323	6923			127	7131			308
5779			324	6924			139	7132			308
5780			328	6925			141	7133		231-829-8	295
5781			362	6926			154	7134	7778-50-9	231-906-6	299
5782			371	6927			157	7135	7783-35-9	231-992-5	253
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7140		231-598-3	336	8018	123-86-4	204-658-1	138	9035	75-05-8	200-835-2	99
7141		205-634-3	277	8023	108-90-7	203-628-5	151	9042	1634-04-4	216-653-1	259
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7153	75-09-2	200-838-9	173	8045	67-56-1	200-659-6	257	9099	26628-22-8	247-852-1	331
7159			134	8046	67-56-1	200-659-6	256	9161	16940-66-2	241-004-4	331
7160	8012-95-1	232-384-2	279	8047	67-56-1	200-659-6	257	9174	67-66-3	200-663-8	152
7165	127-18-4	204-825-9	374	8049	108-10-1	203-550-1	262	9175	67-66-3	200-663-8	152
7169	57-55-6	200-338-0	318	8052	78-93-3	201-159-0	260	9177	142-82-5	205-563-8	205
7194	544-76-3	208-878-9	206	8056	78-83-1	201-148-0	234	9213	68-12-2	200-679-5	178
7201	1310-73-2	215-185-5	348	8066	71-23-8	200-746-9	315	9233	95-50-1	202-425-9	170
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7214	1310-73-2	215-185-5	347	8072	108-20-3	203-560-6	177	9255	75-05-8	200-835-2	96
7215	7664-93-9	231-639-5	369	8073	110-86-1	203-809-9	319	9257	67-66-3	200-663-8	151
7216	1310-73-2	215-185-5	348	8074	110-86-1	203-809-9	319	9258	110-82-7	203-806-2	165
7219	7647-01-0	231-595-7	219	8075	109-99-9	203-726-8	376	9259	60-29-7	200-467-2	175
7221			284	8077	108-88-3	203-625-9	383	9260	141-78-6	205-500-4	189
7227			170	8078	108-88-3	203-625-9	383	9261	872-50-4	212-828-1	263
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7248	10326-27-9		121	8098	64-17-5	200-578-6	186	9266	8032-32-4	232-453-7	285
7249			300	8104	110-82-7	203-806-2	167	9267	64742-49-0		207
7250			299	8106	60-29-7	200-467-2	175	9270	8032-32-4	232-453-7	285
7251			164	8110	142-82-5	205-563-8	205	9272	8032-32-4	232-453-7	284
7252			251	8111	142-82-5	205-563-8	206	9277	110-54-3	203-777-6	208
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7255	121-54-0	204-479-9	210	8114	109-66-0	203-692-4	281	9292	110-82-7	203-806-2	166
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7262			134	8116	8032-32-4	232-453-7	286	9304	110-54-3	203-777-6	209
7263			135	8117	109-99-9	203-726-8	376	9305	64742-49-0		207
7264			135	8119	67-63-0	200-661-7	317	9315	75-09-2	200-838-9	172
7265			136	8134	75-05-8	200-835-2	99	9316	75-09-2	200-838-9	172
7267			137	8142	67-64-1	200-662-2	95	9331	109-66-0	203-692-4	280
7268			137	8144	75-05-8	200-835-2	100	9333	109-66-0	203-692-4	280
7269			137	8175	67-63-0	200-661-7	316	9334	67-63-0	200-661-7	316
7270			138	8204	141-78-6	205-500-4	190	9335	540-84-1	208-759-1	389
7305	75-09-2	200-838-9	173	8205	110-54-3	203-777-6	208	9336	108-88-3	203-625-9	382
7340			120	8217	540-84-1	208-759-1	390	9338	142-82-5	205-563-8	204
7348			320	8224	108-10-1	203-550-1	261	9344	68-12-2	200-679-5	178
7356			117	8239	109-66-0	203-692-4	280	9345	872-50-4	212-828-1	263
7374	9005-64-5		392	8240	8032-32-4	232-453-7	286	9351	108-88-3	203-625-9	382
7385		200-001-8	195	8241	8032-32-4	232-453-7	287	9360	127-18-4	204-825-9	374
7386	67-66-3	200-663-8	153	8242	8032-32-4	232-453-7	287	9364	108-88-3	203-625-9	383
7390	50-00-0	200-001-8	195	8243	8032-32-4	232-453-7	287	9393	110-86-1	203-809-9	319
7397			147	8254	60-29-7	200-467-2	174	9439	109-99-9	203-726-8	374
7400	68-12-2	200-679-5	179	8257	75-05-8	200-835-2	99	9440	109-99-9	203-726-8	375
7424	50-00-0	200-001-8	196	8387	64742-47-8	265-200-4	235	9441	109-99-9	203-726-8	375
7463			228	8401	60-29-7	200-467-2	175	9444	120-82-1	204-428-0	386
7464		231-992-5	252	8402	67-56-1	200-659-6	255	9446	109-99-9	203-726-8	375
7476	7779-88-6	231-943-8	403	8404	67-56-1	200-659-6	255	9448			168
7478	7758-98-7	231-847-6	192	8409	107-15-3	203-468-6	191	9449			168
7479	6381-59-5	205-698-2	192	8414	111-76-2	203-905-0	138	9451			168
7480	1310-73-2	215-185-5	349	8430	120-82-1	204-428-0	386	9470	76-05-1	200-929-3	387
7481		231-791-2	184	8434	123-91-1	204-661-8	180	9478	75-05-8		102
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7526			292	8668	110-54-3	203-777-6	208	9480	540-84-1	208-759-1	389
7534			320	8669	110-54-3	203-777-6	210	9485			147
7535			320	8685	109-66-0	203-692-4	281	9488			277
7557	1310-73-2	215-185-5	346	8699	64-18-6	200-579-1	198	9497			146
7577	7553-56-2	231-441-9	228	8706	110-82-7	203-806-2	166	9504	7440-50-8	231-159-6	159
7610	7664-93-9	231-639-5	368	8707	107-06-2	203-458-1	171	9509	7440-31-5	231-141-8	378
7613	139-33-3	205-358-3	184	8714	108-88-3	203-625-9	382	9510			146
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7641			328	8844			214	9524	64-19-7	200-580-7	93
7642	7783-35-9		253	8845			214	9530	7647-01-0	231-595-7	216
7645	10326-27-9		121	8855			213	9563	7664-39-3	231-634-8	221
7651	7647-01-0	231-595-7	220	8860			212	9598	7697-37-2	231-714-2	272
7655	7647-01-0	231-595-7	218	8861			213	9600	7647-01-0	231-595-7	218
8002	67-64-1	200-662-2	95	8862			212	9601	7697-37-2	231-714-2	273
8003	67-64-1	200-662-2	96	8863			212	9653	7601-90-3	231-512-4	283
8004	75-05-8	200-835-2	100	8890			211	9810	76-05-1	200-929-3	387
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8007	64-17-5	200-578-6	187	8892			211	9821	75-05-8	200-835-2	97
8009	71-41-0	200-752-1	116	8898	67-56-1	200-659-6	213	9822	67-56-1	200-659-6	255
8010	123-51-3	204-633-5	233	8899			211	9823	7732-18-5	231-791-2	397
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6005-01			264								
6011-01			227								
6012-01			227								
6014-01			227								
6021-01			315								
6031-01			384								
6033-01			384								
6103-01			226								
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X584-01	1611-35-4	216-553-8	399								

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Beryllium

3A

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Na
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Sodium

4A

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Mg
24.3050
Magnesium

5A

19
K
39.0983
Potassium

6A

20
Ca
40.078
Calcium

7A

21
Sc
44.955912
Scandium

8A

2
He
4.002602
Helium

Atomic Number

Atomic Weight

Symbol

Name

11

Na

Sodium

3B

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Ti
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Titanium

23
V
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Vanadium

24
Cr
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Chromium

25
Mn
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Manganese

26
Fe
55.845
Iron

27
Co
58.933195
Cobalt

28
Ni
58.6934
Nickel

29
Cu
63.546
Copper

30
Zn
65.38
Zinc

31
Ga
69.723
Gallium

32
Ge
72.64
Germanium

33
As
74.92160
Arsenic

34
Se
78.96
Selenium

35
Br
79.904
Bromine

36
Kr
83.798
Krypton

37
Rb
85.4678
Rubidium

38
Sr
87.62
Strontium

39
Y
88.90585
Yttrium

40
Zr
91.224
Zirconium

41
Nb
92.90638
Niobium

42
Mo
95.96
Molybdenum

43
Tc
[98]
Technetium

44
Ru
101.07
Ruthenium

45
Rh
102.90550
Rhodium

46
Pd
106.42
Palladium

47
Ag
107.8682
Silver

48
Cd
112.411
Cadmium

49
In
114.818
Indium

50
Sn
118.710
Tin

51
Sb
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Antimony

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Te
127.60
Tellurium

53
I
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Iodine

54
Xe
131.293
Xenon

55
Cs
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Cesium

56
Ba
137.327
Barium

57
La
138.90547
Lanthanum

58
Ce
140.116
Cerium

59
Pr
140.90765
Praseodymium

60
Nd
144.242
Neodymium

61
Pm
[145]
Promethium

62
Sm
150.36
Samarium

63
Eu
151.964
Europium

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Gd
157.25
Gadolinium

65
Tb
158.92535
Terbium

66
Dy
162.500
Dysprosium

67
Ho
164.93032
Holmium

68
Er
167.259
Erbium

69
Tm
168.93421
Thulium

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Yb
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Ta
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Tantalum

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W
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Tungsten

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Re
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Rhenium

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Os
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Osmium

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Ir
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Iridium

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Pt
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Platinum

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Au
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Gold

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Hg
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Mercury

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Tl
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Thallium

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Lead

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Bismuth

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