



Ajax Finechem

Part of Thermo Fisher Scientific

PRODUCT CATALOGUE



UNIVAR

UNILAB

UNIVOL

UNICHROM

LABCHEM

SPECTROSOL

UNIPURE

Quality Built on Tradition...

To You and All Our Partners in Chemistry

Welcome to the latest edition of the Ajax Finechem Chemical Catalogue. The Ajax Chemical Catalogue under various guises including the Fine Chemical Reference Book and the Scientific Products Reference Book, has graced the shelves of laboratories throughout Australia and New Zealand for over a quarter of a century and in more recent times in the Asia Pacific region.

Indeed it is fair to say the Australian scientific community has relied on the consistent quality of Ajax chemicals for more than 70 years.

The brand has grown from somewhat humble beginnings to its current status as the most recognised and requested brand of laboratory chemical in the Australian Scientific market.

The success of the Ajax brand is due in no small part to the ongoing support extended over many years by you our loyal customers and partners. The range has evolved, and continues to do so, primarily in response to your needs.

So as the latest version of the Ajax Finechem chemical catalogue is launched it is therefore fitting to extend our gratitude to you and all the customers and partners over many years who have contributed, and continue to contribute, to the Ajax success story.

This new edition of the catalogue provides detailed specifications on all items in the Ajax Finechem range including 400 additional products. It also provides you with current information associated with the safe handling and use of laboratory chemicals including the various dangerous goods class labels, guidelines for the segregation of dangerous goods and a section dedicated to responsible care with chemicals.

Throughout the long history of Ajax, quality and innovation has underpinned the brand and will continue to do so into the future. We are confident the continued focus on quality and innovation combined with a commitment to listen and respond to customers' needs will provide the framework for sustained success in the future.

In conclusion we thank you for your support in the past and trust you will find the new catalogue both useful and informative in assisting you to source your laboratory chemicals in the weeks, months and years ahead.

From the Ajax Finechem Team



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The Story So Far...

History, Knowledge and Expertise

The Australian scientific community has relied on the consistent quality of Ajax brand chemicals for more than seventy years.

The Ajax brand quickly established a reputation for quality laboratory reagents in the domestic market and this spread firstly to New Zealand, and later to the Asia Pacific region.

Over the years Ajax has amassed considerable expertise and knowledge in the production, synthesis and purification of laboratory chemicals and this is reflected in the thousands of products available today under the Ajax brand. The range consists of high purity solvents and acids, inorganic salts, plus organic and speciality chemicals.

In Good Hands

Ajax Finechem was acquired by Lomb Scientific in late 2006 and both Lomb and Ajax were subsequently acquired by Thermo Fisher Scientific in December 2010. Under the stewardship of Lomb Scientific the production facility was moved to its current location in North Western Sydney and significant investment was made to upgrade all aspects of the manufacturing process and in the provision of a new quality control laboratory.

The acquisition of Ajax Finechem by Thermo Fisher Scientific will ensure the continued success of the Ajax brand in an organisation which is the world leader in serving science.

Expanding Boundaries

Ajax brand products are currently exported to 10 countries in Asia, the Pacific Islands and the Middle East.

The export component has formed an integral part of the Ajax business model for over 30 years and continues to grow in stature and significance.



...And Into The Future

Committed to Quality

An unequivocal commitment to quality is the hallmark of the Ajax brand and will continue to be in the future. The commitment begins with sourcing premium quality materials and carries through to the testing of the final product. The Ajax Finechem product range is produced in a modern plant in North Western Sydney. The site is approved by SIA Global in accordance with policies and procedures documented in ISO 9001 Quality Management Systems Standards.



A Quality Environment

A new Quality Control laboratory monitors and controls the quality of raw material and performs final quality checks on finished product based on internationally accepted and approved methods.

The modern on-site laboratory utilises an array of the latest analytical techniques and instrumentation including ICP and UV spectroscopy, gas chromatographs, Karl Fischer auto-titrators and density meters. A team of tertiary qualified experienced and dedicated laboratory professionals control the quality of all raw materials, used in production.

Samples of finished products are retained from each batch manufactured to ensure consistency and adherence to published specifications.

Stock of the Trade

Primary standards used in the laboratory conform to the National Institute of Standards and Technology (NIST). These materials are designated Standard Reference Materials (SRM) and are used to calibrate and verify the accuracy of instrumentation used in the laboratory and to evaluate quality systems methodology and procedures or to produce scientific data for use in referring to a common base or in other words 'NIST Traceable'.

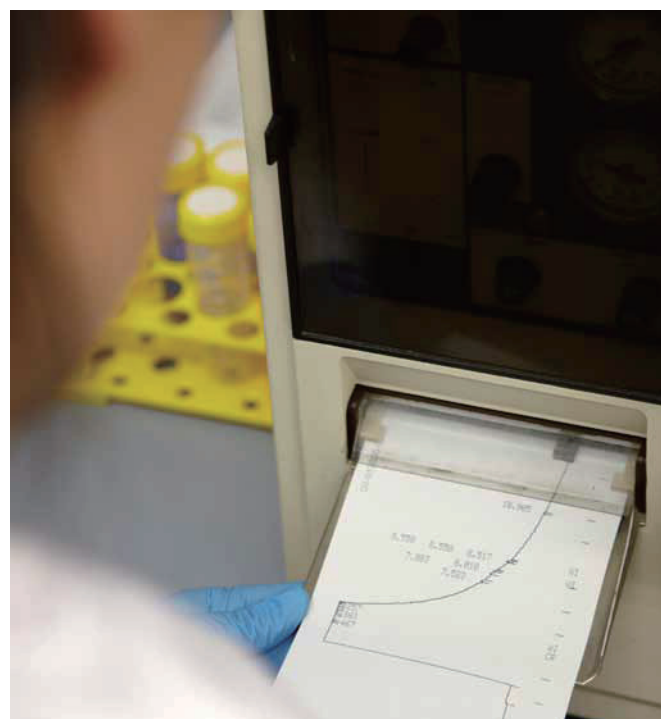
Traceability

Ajax Finechem products are assigned a 7-digit Batch Number during the manufacturing process. Each series of digits indicates specific data regarding the product as the following example demonstrates:

Batch Number 1001123

- > 10 – The first two digits denotes the year of manufacture which is 2010 in this example
- > 01 – The second two digits denotes the month of manufacture which is January in this example
- > 123 – The last three digits are a sequential manufacturing batch number.

Certificates of Analysis are available to accompany individual products during transportation and are available upon request or for subsequent download from www.ajaxfinechem.com.



Ajax Finechem Product Grades

Ajax Finechem utilises a colour-coded labelling system for all of its scientific product range as a guide to quality and purity. Label colours are shown for each Ajax grade group below:



Extra Pure Analytical Reagents

The UNIPURE product range consists of ultra pure reagents which exceed ACS specifications.

The reagents are used for highly sensitive applications such as trace metal analysis and as reference standards.



Analytical Reagents

UNIVAR® products have long been recognised as the standard for analytical reagents in Australia and in overseas markets. In many cases, the purity conforms to and exceeds ACS.



Laboratory Reagents

UNILAB® products are reagent quality chemicals suitable for general laboratory work, and in most cases, meet BP, USP and/or EP standards.



Analytical Volumetric Solutions

UNIVOL® ready to use analytical volumetric solutions are standardised to specific concentrations normally used in laboratory analysis.



HPLC Reagents

The UNICHROM® product range is specially made for high performance liquid chromatography. The range includes high purity solvents, tested to meet strict UV absorbance specifications as well as ion pairing reagents.



General Purpose Reagents

The LABCHEM® range of chemicals are in many cases quality reagents for a particular analysis where no set standard is applicable.



Spectroscopy Materials

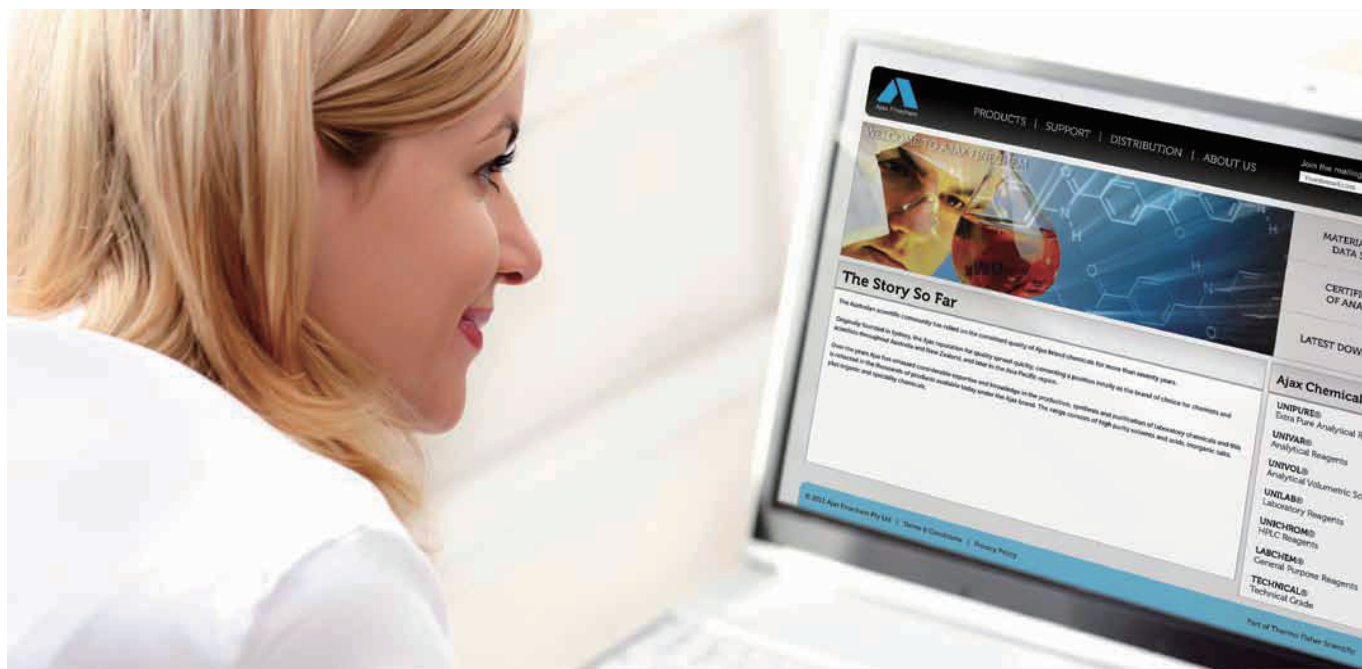
*SPECTROSOL® reagents are specifically made to conform to strict quality specifications for UV, Visible and Atomic Absorption Spectroscopy (AAS) techniques.



Technical Grade

General purpose reagents for quantitative work.

*Spectrosol® is a registered trademark of Nuplex Industries (Aust) Pty Ltd



Your Window to the Ajax World

The Ajax website www.ajaxfinechem.com truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

The website is also your source for up to date information on compliance and regulatory issues, current promotions and product literature.

Search, Browse and Find Products Quickly and Easily

Finding the products you require is easy using the product search function which is designed to search for products by product name or catalogue and/or CAS number. Simply enter the details in any of the search fields and quickly locate the product you require from over 4000 products and pack sizes available in the Ajax range.

Product Specifications

Having quickly and easily found the product you require you may need to check the product specifications to determine its suitability for your intended application. Simply click on the product name and the specifications are instantly available.

Product and Technical Support

Perhaps you require a Certificate of Analysis for a product you have already purchased? Once more this is readily available by entering the product details and batch number.

Material Safety Data Sheets are also available for download from the website which also provides the very latest compliance and regulatory information including useful links to various compliance and regulatory websites.

Trading Terms & Conditions and Privacy Policy

The Ajax Finechem website is also your source to view the trading terms and conditions which applies to all Ajax Finechem transactions. You can also review the organisations Privacy Policy online.

Catalogue and Promotional Literature

View or download current promotional literature including the current catalogue and product guides or find your nearest Ajax distributor online at www.ajaxfinechem.com.

Promotions and Special Offers

www.ajaxfinechem.com is also your source for promotions and special offers. View the promotions directly on the website or alternatively register your details using the contact form to ensure you will receive the Ajax eNewsletter which will feature current promotions and special offers.

Stay connected and informed with the Ajax Finechem website. Bookmark it today and don't forget to share it with your friends.



Regional Distribution

Ajax Chemicals are currently exported to more than 10 countries in Asia, the Pacific Islands and the Middle East. The export component has formed an integral part of the Ajax business model for over 30 years and continues to grow in stature and significance. A dedicated export team has travelled extensively in each of the overseas markets serviced, and developed an in depth understanding of the unique markets needs and conditions in each territory. This understanding extends from product and technical knowledge and support, to compliance issues particularly in relation to the documentation required for the export, transportation and importation of chemicals, to the various territories serviced.

The knowledge and understanding of the various markets serviced has resulted in sustained growth, cementing Ajax as the premier Australian exporter of laboratory and fine grade chemicals. Visit www.ajaxfinechem.com to locate your nearest Ajax Finechem distributor in your region.

Distribution in Asia, the Pacific Islands and the Middle East

- > Fiji
- > Hong Kong
- > Indonesia
- > Malaysia
- > New Caledonia
- > Papua New Guinea
- > Phillipines
- > Saudi Arabia
- > Singapore
- > Taiwan
- > Thailand
- > Vietnam

Distribution in Australia and New Zealand

- > Auckland
- > New South Wales
- > Northern Territory
- > Queensland
- > South Australia
- > Tasmania
- > Victoria
- > Western Australia



Find your nearest Ajax distributor visit www.ajaxfinechem.com



Responsible Care with Chemicals

Ajax Finechem offers a wide range of chemicals and many of the products are either highly flammable, corrosive and or toxic. Understanding the specific characteristics of a chemical is the key to its safe handling, transportation and use.

Personal and environmental safety is a guiding principle in Ajax Finechem and these principles are reflected in all aspects of our operations. They are particularly evident in the area of product packaging where innovation has contributed to significantly reduce risk while providing an increased level of both personal and environmental safety.

Ajax Finechem is focused on ensuring compliance with all current Australian regulatory and non regulatory standards involving the labelling, transportation, storage and use of chemicals. Ajax actively engages with a number of regulatory and non regulatory bodies in Australia to ensure the information contained in their chemical data base is always up to the date; accurately reflecting current guidelines and regulations.

Following is a list of the Australian regulatory and non regulatory bodies Ajax consults with on a regular basis.

MSDS

Material Safety Data Sheets (MSDS) are available for all products in the Ajax Finechem range. MSD Sheets are produced in accordance with the current Australian standard format and are maintained in accordance with the ever evolving regulatory requirements. MSD Sheets are the prime source of information pertaining to the safe handling, storage, transportation, use and disposal of chemicals.

They are available to accompany chemicals during transportation and are also available for download from the Ajax Finechem website: www.ajaxfinechem.com.

MSD Sheets provide information on:

- > Product identification including chemical name, formula, UN Number, ADG Classification and physical data.
- > Details on health hazards and first aid advice.
- > Guidelines for the safe use of chemicals and in particular maintaining personal safety.
- > Safe handling (storage, transport, spills, disposal, fire hazard)

NICNAS

In Australia, industrial chemicals are regulated by the Australian Government under the Industrial Chemicals (Notification and Assessment) Act 1989. NICNAS (National Industrial Chemicals Notification and Assessment Scheme) is the Australian Government regulatory authority for industrial chemicals and was established in 1990.

NICNAS:

- > Provides a national notification and assessment scheme to protect the health of the public, workers and the environment from the harmful effect of industrial chemicals and;
- > Assesses all chemicals new to Australia and those already in use (existing chemicals) on a priority basis, in response to concerns about their safety on health and environmental grounds.

A chemical cannot be imported into Australia unless it is registered with NICNAS, with the exception of small quantities imported for research purposes.

The chemicals approved for importation by NICNAS are outlined on the AICS (Australian Inventory of Chemical Substances) register. Further information on NICNAS can be obtained on www.nicnas.gov.au

Safe Work Australia

Safe Work Australia is an Australian Government statutory agency established in 2009, with the primary responsibility of improving work health and safety and workers' compensation arrangements across Australia.

It is an inclusive tripartite body comprising 15 members, including an independent chair, 9 members representing the Commonwealth and each State and territory, two representing interests of employers and the Group Manager of Safe Work Australia. The key functions of Safe Work Australia are to:

- > Develop National policy relating to OHS and workers compensation;
- > Prepare Model Acts and Regulations, Codes of Practice and other materials relating to OHS;
- > Develop policy to ensure that a nationally consistent approach is taken to compliance and enforcement, and to monitor adoption of the model legislation and COPs by the Commonwealth, States and Territories;
- > Collect, analyse and publish data and research relating to OHS and workers compensation;
- > Revise and further develop the National OHS strategy 2002 2012 developed by Workplace Relations Minister's Council

Further information can be found at safeworkaustralia.gov.au

SUSMP

The Standard for the Uniform Scheduling of Medicines and Poisons (previously known as the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)) is prepared by the Secretary of the Department of Health and Ageing and Advisory Committees on Medicine Scheduling and Chemical Scheduling.

The poisons standard contains details on the classification of medicines and poisons for inclusion in the relevant legislation of the States and Territories. It also includes model provisions for labelling, containers, storage and possession of unregistered poisons.

Further information can be found at <http://www.tga.gov.au/ndpsc/susdp.htm>

ADG

The Australian Dangerous Goods Code 7th Edition sets out requirements and guidelines relating to the transport of dangerous goods by road and rail in Australia.

The code is prepared by the National Transport Commission in conjunctions with Advisory committees in the transport of dangerous goods. The technical requirements of the code are based on the provisions of the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations, 15th Revised edition.

Further information can be found at www.ntc.gov.au

IMDG

The International Maritime Dangerous Goods Code lists the requirements for transport of Dangerous goods by sea. Transport of dangerous goods by sea is regulated in order to prevent personal injury or damage to ships and cargo or to the marine environment.





Prohibited Substances

Biological Materials

The importation of products containing biological material is essential to further Australian scientific research. Imported products may contain material from human, animal or plant origin and this biological material may be contaminated with pathogens, and in particular viruses. Although products are subject to various forms and methods of decontamination these are not always completely effective in guaranteeing products are free from contamination. As a result the importation of all products containing material of a biological origin are subject to regulation by the Australian Quarantine and Inspection Service (AQIS). AQIS monitors and controls the importation of products containing materials of a biological origin. No product can be imported without a suitable permit and appropriate approval from AQIS.

Further information on regulations governing the importation of Biological materials can be obtained on www.aqis.gov.au.

Drug Precursors

Some chemicals can be used for the manufacture of illicit drugs. Most states in Australia now have legislation in place (based on PACIA's Code of Practice for the Supply Diversion into illicit Drug Manufacture) controlling access to drug precursor chemicals. These controls include obtaining photo ID and end user declarations from purchasers of these precursor chemicals. This information is made available to the police. Further information can be obtained by reviewing relevant state's legislation.

Chemical Weapons Precursors

Certain chemicals can be used to produce weapons. The Chemical Weapons Convention (CWC) is an international treaty prohibiting the development, production, acquisition, stockpiling, retention, transfer or use of chemical weapons, and requires the destruction of existing weapons. The CWC was enacted on 29 April 1997. Australia signed the Convention in January 1993 and this was ratified in May 1994. As of 21 May 2009 there were 188 member countries to the CWC. Each CWC member country must provide assurance that it is honouring its commitments not to engage in prohibited activities by:

- > Destroying all chemical weapons within 10 years after the CWC's entry into force in strict accordance with the treaty's specifications;
- > Declaring information on certain chemical activities to the Organisation for the Prohibition of Chemical Weapons (OPCW), the international implementation agency; and
- > Permitting inspections of relevant chemical facilities by the OPCW.

Australia does not possess chemical weapons. It is an active member country of the CWC, ensuring that the treaty is effective in promoting international security. Further information on Chemical Weapons can be obtained on www.dfat.gov.au/cwco.

Segregation of Dangerous Goods

Segregation of Dangerous Goods in Road Vehicles and Freight Containers

The following table (Table 9.1 – Incompatibility based on Classification) is taken from The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code), 7th Edition, page 630. The table lists compatibility of different classes of chemicals when transported by road and rail.

Goods are considered Incompatible if, in this Table, any of the following Conditions are met:

- (a) the primary hazard of one is incompatible with the primary hazard of the other; or
- (b) the primary hazard of one is incompatible with a subsidiary risk of the other; or
- (c) a subsidiary risk of one is incompatible with a subsidiary risk of the other.

CLASS or DIVISION	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6	7 (7)	8	9	Food or Food Empties	Fire Risk Substances or Combustible liquids
1 Explosives	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
2.1 Flammable gas	(1)	O	O ⁽³⁾	O	O ⁽²⁾	N	N	N	N	N	O	N	O	O	O	O
2.2 Non-flammable non-toxic gas	(1)	O ⁽³⁾	O	O ⁽⁴⁾	O	O	N	O	O	N	O	O	O	O	O	O
2.3 Toxic gas	(1)	O	O ⁽⁴⁾	O	N	O	N	O	N	N	O	O	O	O	N ⁽⁸⁾	O
3 Flammable liquid	(1)	O ⁽²⁾	O	N	O	O	N	O	N	N	O ⁽⁶⁾	N	O	O	O	O
4.1 Flammable solid	(1)	N	O	O	O	O	N	O	N	N	O	N	O	O	O	O
4.2 Spontaneously combustible	(1)	N	N	N	N	N	O	O	N	N	O	N	O	O	O	O
4.3 Dangerous when wet	(1)	N	O	O	O	O	O	O	N	N	O	N	N	O	O	O
5.1 Oxidising substances	(1)	N	O	N	N	N	N	N	O ⁽⁶⁾	N	O ⁽⁵⁾	N	N	O ⁽⁵⁾	O	N
5.2 Organic peroxides	(1)	N	N	N	N	N	N	N	N	O	O ⁽⁵⁾	N	N	O ⁽⁵⁾	O	N
6 Toxic or infectious substances	(1)	O	O	O	O ⁽⁵⁾	O	O	O	O ⁽⁵⁾	O ⁽⁵⁾	O	O	O ⁽⁶⁾	O	N ⁽⁸⁾	O
7 Radioactive material (7)	(1)	N	O	O	N	N	N	N	N	N	O	O	N	O	N ⁽⁸⁾	O
8 Corrosive substances	(1)	O	O	O	O	O	O	N	N	N	O ⁽⁶⁾	N	O ⁽⁶⁾	O	N ⁽⁸⁾	O
9 Miscellaneous dangerous goods	(1)	O	O	O	O	O	O	O	O ⁽⁵⁾	O ⁽⁵⁾	O	O	O	O	O	O

In this Table:

O means compatible unless a numbered exception applies

N means incompatible unless a numbered exception applies

Exceptions:

(1) Explosives are incompatible in transport with all other dangerous goods in all quantities except as provided in the Australian Explosives Code, or, for Division 1.4S, where 9.1.2.2.2 applies

(2) Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.

(3) Division 2.1 is incompatible in transport with gases of Division 2.2 that have a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500 L capacity.

(4) Division 2.3 is incompatible in transport with gases of Division 2.2 that have a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500 L capacity.

(5) Class 5 is incompatible with those Class 6 or Class 9 materials that are fire-risk substances.

(6) Some specific examples of these Classes or Divisions are incompatible – Refer Table 9.2 (page 631 of ADG 7th Ed).

(7) See the Code of Practice for the Safe Transport of Radioactive Substances regarding the compatibility of Class 7 with undeveloped photographic film, personnel and mail.

(8) Food and food packagings are incompatible with these classes in all quantities, except where 9.1.2.3 applies.

Dangerous Goods Class Labels

It is essential any individual involved in the handling, storage, transportation or use of dangerous goods is familiar with the various symbols displayed on product labels and understands the properties of specific chemicals. Dangerous goods are assigned to one of nine classes dependent on the main danger presented.

It is important you know which goods produce toxic gas, which are highly flammable, which are dangerous when wet, or which are dangerous when they come into contact with air. More detailed information about dangerous goods and their properties can be found in the 7th edition of the Australian Dangerous Goods Code.

Class 1 – Explosive Substances or Articles



Division 1.1 – Substances and articles which have a mass explosion hazard affecting entire load virtually instantaneously

Division 1.2 – Substances and articles which have a projection hazard but not a mass explosion hazard

Division 1.3 – Substances and articles which have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard.



Division 1.4 – Substance present only a small hazard in the event of ignition or initiation during transport.

Effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected.



Division 1.5 – Substances that have a mass explosion hazard but are so insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport.



Division 1.6 – Articles that contain only extremely insensitive detonating substances and which demonstrate a negligible of accidental initiation or propagation.

Note: ** denotes area on the label to display division and compatibility group

Class 2 – Gases



Division 2.1 – Flammable Gases – Gases that are ignitable in air on contact with source of ignition



Division 2.2 – Non-flammable, non-toxic gases – Gases that are asphyxiant, oxidising or don't fall under other divisions

Sub Risk 5.1 – Oxidising Gases – Label valid only for road transport in Australia



Division 2.3 – Toxic Gases – Gases that are known or presumed to be toxic or corrosive to human health

Class 3 – Flammable Liquids



Flammable liquids and liquid desensitised explosives

Class 4 – Flammable Solids



Division 4.1 – Flammable Solids – Solids which are readily combustible or liable to cause fire through friction



Division 4.2 – Spontaneously Combustible – Substances which are liable to spontaneous heating and ignition



Division 4.3 – Substances which in contact with water emit flammable gases

Class 5 – Oxidising Substances and Organic Peroxides



Division 5.1 – Oxidising Agents – Substances likely to increase the risk and intensity of fire in other materials



Division 5.2 – Organic Peroxides – Organic Peroxides are liable to exothermic decomposition at normal or elevated temperatures

Class 6 – Toxic and Infectious Substances



Division 6.1 – Toxic Substances – Substances that are liable to cause death or serious injury to human health if swallowed or inhaled or by skin contact



Division 6.2 – Infectious Substances – Substances known or reasonably expected to contain pathogens, which can cause disease in humans or animals.

Class 7 – Radioactive Substances

Subject to the ADG code only when transported with other DG classes. Transport of Class 7 by road or rail is subject to State/Territory legislation and the Code of Practice for the Safe Transport of Radioactive Substances.



Basic class placard for use on road/rail vehicle only.

Containers must be labelled with appropriate category label as below:



Category I



Category II



Category III



Fissile Material

Class 8 – Corrosive Substances



Substances which, by chemical action, will cause severe damage when in contact with living tissue, or in the case of leakage, will materially damage, or even destroy, other goods or the means of transport.

Class 9 – Miscellaneous Dangerous Substances and Articles



Substances and articles which, during transport, present a danger not covered by other classes.

Please see the 7th Edition of the Australian Dangerous Goods code for more information

List of Safety Phrases

- S1 keep locked up
- S2 keep out of the reach of children
- S3 keep in a cool place
- S4 keep away from living quarters
- S5 keep contents under... (appropriate liquid to be specified by the manufacturer)
- S6 keep under... (inert gas to be specified by the manufacturer)
- S7 keep container tightly closed
- S8 keep container dry
- S9 keep container in a well-ventilated place
- S12 Do not keep the container sealed
- S13 keep away from food, drink and animal feeding stuffs
- S14 keep away from... (incompatible materials to be indicated by the manufacturer)
- S15 keep away from heat
- S16 keep away from sources of ignition – no smoking
- S17 keep away from combustible material
- S18 Handle and open container with care
- S20 When using, do not eat or drink
- S21 When using do not smoke
- S22 Do not breathe dust
- S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
- S24 Avoid contact with skin
- S25 Avoid contact with eyes
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S27 Take off immediately all contaminated clothing
- S28 After contact with skin, wash immediately with plenty of... (to be specified by the manufacturer)
- S29 Do not empty into drains
- S30 Never add water to this product
- S33 Take precautionary measures against static discharges
- S35 This material and its container must be disposed of in a safe way
- S36 Wear suitable protective clothing
- S37 Wear suitable gloves
- S38 In case of insufficient ventilation, wear suitable respiratory equipment
- S39 Wear eye/face protection
- S40 To clean the floor and all objects contaminated by this material use... (to be specified by the manufacturer)
- S41 In case of fire and/or explosion do not breathe fumes
- S42 During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer)
- S43 In case of fire use... (indicate in the space the precise type of fire-fighting equipment. If water increases the risk add: 'Never use water')
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- S46 If swallowed, seek medical advice immediately and show this container or label
- S47 keep at temperature not exceeding...°C (to be specified by the manufacturer)
- S48 keep wetted with... (appropriate material to be specified by the manufacturer)
- S49 keep only in the original container
- S50 Do not mix with... (to be specified by the manufacturer)
- S51 Use only open well-ventilated areas
- S52 Not recommended for interior use on large surface areas
- S53 Avoid exposure – obtain special instructions before use
- S56 Dispose of this material and its container at a hazardous or special waste collection point
- S57 Use appropriate container to avoid environmental contamination
- S59 Refer to manufacturer/supplier for information on recovery/recycling
- S60 This material and its container must be disposed of as hazardous waste
- S61 Avoid release to the environment. Refer to special instructions/ Material Safety Data Sheets
- S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label
- S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest
- S64 If swallowed, rinse mouth with water (only if the person is conscious)

List of Risk Phrases

- | | |
|--|--|
| R1 Explosive when dry | R35 Causes severe burns |
| R2 Risk of explosion by shock, friction, fire or other sources of ignition | R36 Irritating to eyes |
| R3 Extreme risk of explosion by shock, friction, fire & other ignition sources | R37 Irritating to respiratory system |
| R4 Forms very sensitive explosive metallic compound | R38 Irritating to skin |
| R5 Heating may cause explosion | R39 Danger of very serious irreversible effects |
| R6 Explosive with or without contact with air | R40 Possible risk of irreversible effects |
| R7 May cause fire | R41 Risk of serious damage to eyes |
| R8 Contact with combustible material may cause fire | R42 May cause sensitisation by inhalation |
| R9 Explosive when mixed with combustible material | R43 May cause sensitisation by skin contact |
| R10 Flammable | R45 May cause cancer |
| R11 Highly flammable | R46 May cause heritable genetic damage |
| R12 Extremely flammable | R48 Danger of serious damage to health by prolonged exposure |
| R14 Reacts violently with water | R49 May cause cancer by inhalation |
| R15 Contact with water liberates extremely flammable gases | R50 Very toxic to aquatic organisms |
| R16 Explosive when mixed with oxidising substances | R51 Toxic to aquatic organisms |
| R17 Spontaneously flammable in air | R52 Harmful to aquatic organisms |
| R18 In use may form flammable/explosive vapour-air mixture | R53 May cause long term adverse effects in the aquatic environment |
| R19 May form explosive peroxides | R54 Toxic to flora |
| R20 Harmful by inhalation | R55 Toxic to fauna |
| R21 Harmful in contact with skin | R56 Toxic to soil organisms |
| R22 Harmful if swallowed | R57 Toxic to bees |
| R23 Toxic by inhalation | R58 May cause long term adverse effects in the environment |
| R24 Toxic in contact with skin | R59 Dangerous for the ozone layer |
| R25 Toxic if swallowed | R60 May impair fertility |
| R26 Very toxic by inhalation | R61 May cause harm to the unborn child |
| R27 Very toxic in contact with skin | R62 Possible risk of impaired fertility |
| R28 Very toxic if swallowed | R63 Possible risk of harm to the unborn child |
| R29 Contact with water liberates toxic gas | R64 May cause harm to breastfed babies |
| R31 Contact with acids liberates toxic gas | R65 Harmful: May cause lung damage if swallowed |
| R32 Contact with acids liberates very toxic gas | R66 Repeated exposure may cause skin dryness or cracking |
| R33 Danger of cumulative effects | R67 Vapours may cause drowsiness and dizziness |
| R34 Causes burns | R68 Possible risk of irreversible effects |





Packaging and Shelf Life

Over the years, Ajax Finechem has established a reputation for developing innovative packaging solutions for the laboratory chemical market. Packaging innovations have ranged from the introduction of environmentally friendly recyclable cardboard packaging to the development of a special grade of plastic bottle which is chemically compatible with a wide range of commonly used acids and solvent. The type of packaging selected for specific products is based on the compatibility of the chemical with the chosen packaging material. Other considerations include maximising product shelf life and the need to ensure product security and integrity.

Pack sizes available, range in size from 1g to 200 litres. Generally products are available in a range of convenient sizes as detailed in the product specifications section of this catalogue.

Product Shelf Life

The Ajax Finechem range is supplied in either glass, plastic, metal or cardboard, packaging which is specifically selected to maximise product shelf life and to ensure product security and integrity.

Opened Containers

The shelf life of opened containers is also contingent on a number of factors including storage conditions and the frequency of use. Generally opened products which are stored away from exposure to sunlight and extreme temperatures and are contaminant free, may be used for a period of up to 5 years after initial use.

Specific products, such as non-sterile aqueous solutions, are prone to deterioration due to micro-organism attack or migration of atmospheric gases. The unopened shelf life of these products may be less than 2 years.

Unopened Containers

Generally the shelf life of unopened containers is at least 5 years, however the product quality and thus suitability for intended use is contingent on a number of factors and in particular storage conditions.

It is essential unopened products are stored in an appropriate environment; away from exposure to sunlight and extreme temperatures.

Methanol

4 CAS 67-56-1

5 Synonyms: Methyl Alcohol, Carbinol

6 CH₃OH = 32.0

7 U.N Number..... 1230

8 ADG Class..... 3

Subsidiary Risk..... 6.1

9 Packing GroupII



10

1 723 2 Methanol, Anhydrous

3 UNIVAR

11 Description: A clear, hygroscopic liquid with a characteristic odour.

12 Assay..... 99.8% min.

B.R. (100%)..... 2.0°C max. incl. 64.6 +/-0.1°C

Colour (APHA)..... 10max.

12 Minimum Limit of Impurities (%)

R.A.E..... 0.001

Sol. (in H₂O)..... to pass test

Titrate acid..... 0.03 mmol H

Titrate base..... 0.02 mmol OH

Acetone, aldehydes (as (CH₃)₂CO) 0.005

Subs. darkened by H₂SO₄ To pass test

Subs. red. KMnO₄ (as O) To pass test

H₂O 0.01

13 Pack Size: 500ml, 2.5L, 20L

Everything You need to Know at a Glance

1 Catalogue Number

To be used in ordering a product

2 Chemical Name

All chemical names appear in alphabetical order

3 Grade

Ajax Finechem brand name indicating the grade of the chemical

4 CAS Number

The CAS Number is a unique number assigned to a substance when it is entered into the Chemical Abstracts Service (CAS) registry database

5 Synonyms

Alternate chemical name

6 Molecular Formula/Molecular Weight

The molecular formula and molecular weight for the pure chemical

7 United Nations Identification Number

Assigned by the United Nations Committee of Experts to identify general or a particular group of dangerous goods. It is required to be written on the label of all products classified as Dangerous Goods

8 Australian Dangerous Goods Class

The Australian Dangerous Goods code (ADG) classification for both classification class and Subsidiary risk classification

9 Packing Group Code

Allocation to one of the three categories according to the degree of danger that the products represent:

Packing Group I - great danger

Packing Group II - medium danger

Packing Group III - minor danger

10 Australian Dangerous Goods Class Labels

Conforming to the Australian Dangerous Goods Code (ADG) requirements

11 Description and Properties

The description of selected physical properties of the chemical

12 Assays and Limits of Impurities

The assay of the chemical and maximum limits of impurities indicate the quality and specific impurity levels which may be important in certain analytical techniques

13 Pack Size

Indicates the pack size(s) available

Acacia

CAS 9000-01-5

1100 Acacia TECHNICAL

Powder & irregular fragments of odourless & tasteless material.

Maximum limit of impurities(%)

Insolubles..... 0.06

L.O.D..... 13.7

Sulphated ash..... 4.5

Pack Size: 500g

Acenaphthene

CAS 83-32-9

 $C_{12}H_{10}$ = 154.21 g/mol

144 Acenaphthene For Synthesis UNILAB

Assay.....96% min.

M.P.90 – 93°C

Pack Size: 100g

Aces Biological Buffer

CAS 7365-82-4

 $NH_2COCH_2NHCH_2CH_2SO_3H$ = 182.2

3297 Aces Biological Buffer UNIVAR

Biological Buffer which is enzymatically & Hydrolytically stable; Negligible UV Absorption; forms soluble complexes with cations. pH Range 6.4-7.4

app: White, clear crystals.

pKa (20°C).....6.88

Assay.....98.5% min. (after drying)

Maximum limit of impurities(%)

L.O.D..... 0.2

R.O.I..... 0.2

SO₄..... 0.01

Fe..... 0.0005

Pb..... 0.0010

Abs (260 nm, 5%, 1 cm)..... 0.1

Pack Size: 100g,1kg

Acetamide

CAS 60-35-5

 CH_3CONH_2 = 59.07

846 Acetamide UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Acidity (as CH₃COOH)..... 0.5Water (H₂O) by Karl Fischer..... 0.3

Pack Size: 100g

Acetanilide

CAS 103-84-4
 $C_6H_5NHCOCH_3 = 135.17$

847 Acetanilide

UNILAB

M.P.112-115°C
 Assay.....99% min.

Maximum limit of impurities(%)

Sulph. ash. 0.1
 H.M. (as Pb). 0.001

Pack Size: 500g

Acetdimethylamide (See N-N-Dimethylacetamide Page 179)

Acetic Acid

CAS 64-19-7
 $CH_3COOH = 60.05$

U.N Number.....2789
 ADG Class.....8
 SUB.....3
 Packing Group.....II



796 Acetic Acid Anhydrous

UNIVAR

Description: a translucent crystalline mass, or at temperatures above its freezing point, a clear colourless liquid; odour, pungent.

Assay.....99.7% min.
 Colour (APHA).....10 max.
 Density.....1.050g/mL max.
 F.P.....16.0°C min.

Maximum limit of impurities(%)

R.A.E. 0.001
 Dil. with H_2O passes test
 Titratable base. 0.04 mmol OH
 Cl. 0.0001
 SO_4 0.0001
 Fe. 0.00002

H.M. (as Pb). 0.00005
 $(CH_3CO)_2O$ 0.01
 Subs. red. $K_2Cr_2O_7$ (as O). 0.003
 Subs. red. $KmnO_4$ (as O). 0.0006
 H_2O 0.1

Pack Size: 2.5L

2335 Acetic Acid glacial

UNICHROM

Description: clear liquid with a characteristic pungent odour.

R.I= 1.372
 Viscosity@20°C.....1.22cP
 Assay(GLC)>99.7%

UV Absorbance

λ (nm)	252	254	280
Max abs.	1.00	0.60	0.02

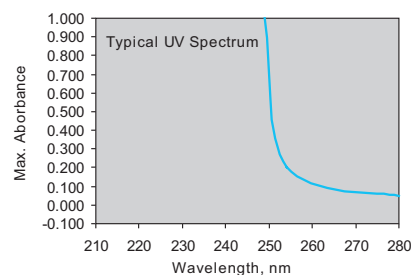
Maximum limit of impurities(%)

Non-vol. 0.001
 H_2O (by K.F.). 0.3

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L



1

Acetic Acid glacial

UNIVAR

Description: a translucent crystalline mass, or at temperatures above its freezing point, a clear, colourless liquid; odour, pungent.

Assay.....99.7% min.
 Colour (APHA).....10 max.
 Density.....1.050g/mL max.
 F.P.16.0°C min.

Maximum limit of impurities(%)

Subs red KMnO₄ passes test
 Acetic Anhydride..... 0.01
 Cl. 0.0001
 SO₄.....0.0001
 K. 0.0001
 Ba. 0.0001
 Dil.with H₂O passes test
 R.A.E..... 0.001
 Al. 0.00001
 Mg. 0.00001
 Zn. 0.00001
 Cu. 0.000002
 Pb. 0.000002
 Mo. 0.000002

Ni. 0.000002
 Cd. 0.000002
 Co. 0.000001
 Mn. 0.000001
 Sr. 0.000001
 Fe. 0.000002
 Cr. 0.000002
 Subs.reducing K₂Cr₂O₇ passes test
 Titratable Base. 0.04 mmol
 Na. 0.0005
 Ca. 0.0002
 HM (as Pb). 0.00005

Conforms to ACS

Pack Size: 500ML,2.5L GL,2.5L PL,20L,200L

2

Acetic Acid glacial

UNILAB

Description: A crystalline mass or a clear, colourless, volatile liquid.

Assay.....99.0 100.5%
 F.P.14.8°C min.

Maximum limit of impurities(%)

Clarity & colour passes test
 Cl. 0.0025
 SO₄.....0.0050
 H.M (as Pb). 0.0005

Fe. 0.0005
 Reducing substances passes test
 Residue on evaporation. 0.01

Physical and Chemical parameters conform to BP

Pack Size: 500ML,2.5L GL,2.5L PL,20L

Acetic Acid Ammonium Salt (See Ammonium Acetate Page 47)

Acetic Acid Potassium Salt (See Potassium Acetate Anhydrous Page 341)

Acetic Acid Sodium Salt (See Sodium Acetate Anhyd Page 390)

Acetic Acid Zinc Salt (See Zinc Acetate Page 481)

Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Non-Hazardous
- <> Safe for the environment
- <> Harmless

Cat-No **Pack Size**
8745 500g, 1kg, 3kg, 5kg, 25kg

Acetic Anhydride

CAS 108-24-7

Synonyms: Acetic Oxide, Ethanoic Anhydride
(CH₃CO)₂O = 102.09

U.N Number.....1715

ADG Class.....8

SUB.....3

Packing Group.....II



4 Acetic Anhydride

UNIVAR

Description: clear liquid with a pungent odour.

Assay.....97.0% min.

Maximum limit of impurities(%)

R.A.E..... 0.003

Cl..... 0.0005

PO₄..... 0.001

SO₄..... 0.0005

Fe..... 0.0005

H.M. (as Pb)..... 0.0002

Subs. red. KmnO₄..... Passes test

Conforms to ACS

Pack Size: 500mL, 2.5L

5 Acetic Anhydride

UNILAB

Density about.....1.08g/mL

Assay.....96.0% min.

Maximum limit of impurities(%)

Non-vol..... 0.02

Cl..... 0.01

SO₄..... 0.03

Pack Size: 500ML,2.5L GL

Acetic Acid Amide (See Acetamide Page 19)

Acetic Acid Butyl Ester (See N-Butyl Acetate Page 109)

Acetic Acid Methyl Ester (See Methyl Acetate Page 286)

Acetic Oxide (See Acetic Anhydride Page 22)

Acetoacetic Acid (See Ethyl Acetoacetate Page 196)

Acid Red 92 (See Phloxine B Page 334)

Acetoacetanilide

CAS 102-01-2

C₁₀H₁₁NO₂ =177.20

143 Acetoacetanilide For Synthesis

UNILAB

ASSAY.....98% min.

M.P.81 -85°C

Pack Size: 500g

Acetone

CAS 67-64-1

Synonyms: 2-Propanone, Dimethylketone
(CH₃)₂CO = 58.08

U.N Number.....1090

ADG Class.....3

Packing Group.....II



2546

Acetone

UNICHROM

Description: clear liquid with a characteristic odour.

R.I. @ 20°C.....1.360

Viscosity @ 20°C.....0.32 cP

Assay(ex GLC).....>99.5%

U.V. absorbance:

λ(nm) 330 350

Max abs. 1.00 0.02

Maximum limit of impurities(%)

R.A.E. 0.001

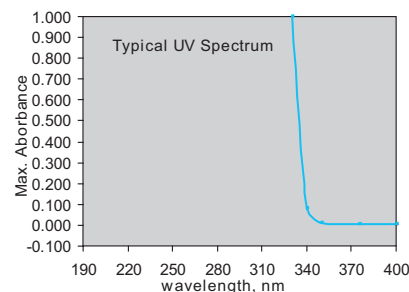
Acidity0.03 mmol H

H₂O (by K.F.)..... 0.5

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L



585

Acetone

SPECTROSOL

Description: clear liquid; characteristic odour.

For U.V. spectroscopy.

Assay(GLC).....99.5% min.

Colour (APHA).....10 max.

Density (@ 25°C).....0.7857g/mL max.

Maximum limit of impurities(%)

R.A.E. 0.001

Sol. in H₂O.....passes test

Titratable acid.0.03 mmol H

Titratable base.0.06 mmol OH

Aldehyde (as HCHO)..... 0.002

U.V absorbance

λ(nm) 330 340 350 400

Max abs. 1.00 0.1 0.02 0.01

CH₃OH..... 0.05

Propan-2-ol..... 0.05

Subs. red. KmnO₄ (as O)..... 0.0005H₂O..... 0.5

Conforms to ACS

Pack Size: 500mL



Your Window to the Ajax World

The Ajax website www.ajaxfinechem.com truly is your window to the Ajax world whether you are looking to find a product, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis. The website is also your source for up to date information on compliance and regulatory issues, current promotions and product literature.

Product and Technical Support

Perhaps you require a Certificate of Analysis for a product you have already purchased? Once more this is readily available by entering the product details and batch number. Material Safety Data Sheets are also available for download from the website which also provides the very latest compliance and regulatory information including useful links to various compliance and regulatory websites. Stay connected and informed with the Ajax Finechem website. Bookmark it today and don't forget to share it with your friends www.ajaxfinechem.com

6

Acetone

UNIVAR

Description: clear liquid with a characteristic odour.
 Assay (by GLC).....99.5% min.
 Colour (APHA).....10 max.
 Density (@ 25°C).....0.7857g/mL max.

Maximum limit of impurities(%)

R.A.E. 0.001
 Sol. in H₂O..... passes test
 Titratable acid.....0.03 mmol H
 Titratable base.....0.06 mmol OH
 Aldehyde (as HCHO)..... 0.002
 Methanol, Propan-2-ol (each)..... 0.05
 Fe..... 0.00002
 Subs. red. KMnO₄..... passes test
 H₂O..... 0.5
 Al..... 0.00001
 Mg..... 0.00001
 Ba..... 0.000005

Cd..... 0.000005
 Pb..... 0.000005
 Ca..... 0.00005
 Zn..... 0.00005
 Na..... 0.00005
 K..... 0.00005
 Cr..... 0.000002
 Co..... 0.000002
 Cu..... 0.000002
 Mn..... 0.000002
 Ni..... 0.000002
 Sr..... 0.000002

Conforms to ACS

Pack Size: 500ML,2.5L GL,2.5L PL,20L,200L

7

Acetone

UNILAB

Relative density (@20°C).....0.790 - 0.793g/mL

Maximum limit of impurities(%)

Residue on evaporation..... 0.005
 Acidity or alkalinity..... To pass test
 Related substances..... To pass test
 Matter insoluble in water..... To pass test

Appearance of solution..... To pass test
 Water (K.F.)..... 0.3
 Reducing substances..... To pass test

Conforms to BP

Pack Size: 500ML,2.5L GL,2.5L PL,20L,200L

Acetonitrile

CAS 75-05-8

Synonyms: Methyl Cyanide

CH₃CN = 41.05

U.N Number.....1648

ADG Class.....3

Packing Group.....II



2315

Acetonitrile, 190 Grade

UNICHROM

Description: clear liquid with a characteristic ethereal odour, with no odour of amines.

Assay (GLC).....>99.7%

R.I.....1.344

U.V absorbance

λ(nm)	190	214	254	280
Max abs.	1.00	0.15	0.02	0.01

Maximum limit of impurities(%)

Non-vol.....0.001

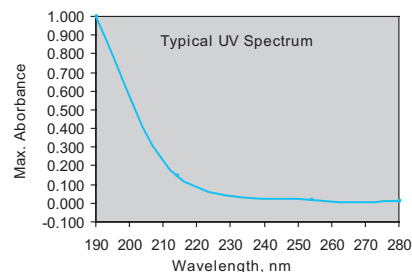
Acidity (as CH₃COOH)..... 0.005

H₂O (by K.F.).....0.1

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L GL,4L



2316 Acetonitrile, 210 Grade

UNICHROM

Description: clear liquid with a characteristic ethereal odour, with no odour of amines.

Assay (GLC).....>99.7%
 R.I.....1.344

U.V. Absorbance

λ(nm)	210	254	280
Max abs.	1.00	0.02	0.01

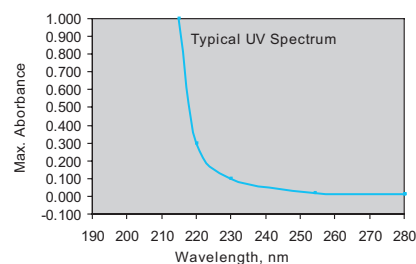
Maximum limit of impurities(%)

Non-vol.0.001
 Acidity (as CH₃COOH).....0.01
 H₂O (by K.F.).....0.1

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L



3478 Acetonitrile, UV Anhydrous

UNICHROM

Assay.....99.9% min.

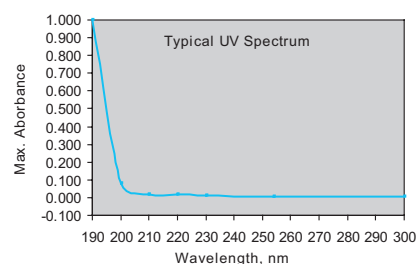
Maximum limit of impurities(%)

Acidity (as acetic acid)..... 0.01
 N.V..... 0.0002
 Water..... 0.001

Max. UV. Absorbance:

λ(nm)	190	200	210	220	330	254	300
Absorbance	1.00	0.05	0.04	0.02	0.01	0.005	0.005

Pack Size: 4L Plastic Coated Safety Bottle.



3477 Acetonitrile, UV Anhydrous

UNICHROM

Colour(APHA).....<10
 Assay(by GLC).....>99.9%
 R.I.....1.344

Maximum limit of impurities(%)

Non volatile residue..... 0.0002
 Acidity (as CH₃COOH)..... 0.01
 Water (by KF).....0.001

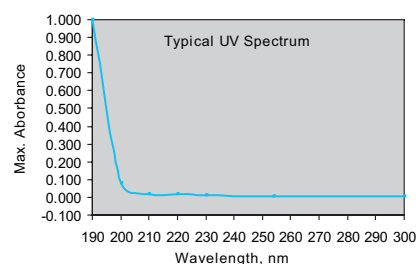
UV Absorbance:

Wavelength (nm)	190	200	210	220	230	254	300
Absorbance	1.00	0.05	0.04	0.02	0.01	0.005	0.005

Suggested Applications:

A super-dry grade for optimum results with peptide synthesis, sequencing & also for HPLC as an excellent mobile phase.

Pack Size: 4L



HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at www.ajaxfinechem.com/Unichrom

277

Acetonitrile

SPECTROSOL

Density.....0.782 g/mL
 M.P.-46°C
 B.P.81.6°C
 Assay (GC).....99.9% min.
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.05
 R.O.E. 0.0005
 FTIR Spectrum.To Pass test

Max. UV. Absorbance:

λ(nm)	200	210	220	230
Absorbance	0.05	0.022	0.013	0.009

Pack Size: 500mL, 2.5L GL

1535

Acetonitrile

UNIVAR

Description: clear liquid with a characteristic ethereal odour, with no odour of amines.

Assay (GC).....99.5% min.
 Colour (APHA).....10max

Maximum limit of impurities(%)

R.A.E. 0.005
 Titratable acid. 8.0 meq/g

Titratable base. 0.6 meq/g
 H₂O. 0.3

Conforms to ACS

Pack Size: 500mL, 2.5L GL, 20L,200L

710

Acetonitrile

UNILAB

Density about.....0.78g/mL
 B.R.(95% min.).....80-82°C

Maximum limit of impurities(%)

Non-vol. 0.02
 Acidity (as CH₃COOH)..... 0.1

H₂O. 0.5

Pack Size: 2.5L GL, 20L

Acetophenone

CAS 98-86-2

Synonyms:Methyl Phenyl Ketone

C₆H₅COCH₃ = 120.15

848

Acetophenone

UNILAB

Assay.....98.0% min.
 Density.....1.030
 Boiling Point.....202°C

Maximum limit of impurities(%)

Acidity (as C₆H₅CO₂H)..... 0.1
 Residue after evaporation. 0.1

Pack size: 500mL

2-Acetoxybenzoic Acid (See Acetylsalicylic Acid Page 29)

Acetylcellulose (See Cellulose Acetate Page 131)

Acetylacetone

CAS 123-54-6
 Synonyms: 2,4-Pentanedione
 $\text{CH}_3\text{COCH}_2\text{COCH}_3 = 100.12$

U.N Number.....2310
 ADG Class.....3
 SUB.....6.1
 Packing Group.....III



9 Acetylacetone UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Acidity (as CH_3COOH)..... 0.2

H_2O 0.2

Pack Size: 2.5L

Acetyl Chloride

CAS 75-36-5
 $\text{CH}_3\text{COCl} = 78.50$

U.N Number.....1717
 ADG Class.....3
 SUB.....8
 Packing Group.....II



10 Acetyl Chloride UNIVAR

Description: clear liquid with irritating vapour.

Assay.....99.0% min.

R.I@20°C about 1.388g/mL

Pack size: 100mL

1293 Acetyl Chloride UNILAB

Density about.....1.10g/mL

Assay.....98.0% min.

Pack Size: 500mL

Acetyl Choline Chloride

CAS 75-36-5
 $\text{CH}_3\text{COCl} = 78.50$

149 Acetyl Choline Chloride UNIVAR

Assay (ex Cl).....99% min.

M.P.148 - 152°C

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

As..... 0.0002

Loss on drying @ 150°C..... 0.75

Sulphated ash..... 0.1

Pack Size: 25g

N-Acetyl-DL-Tryptophan 99%

CAS 87-32-1
 $C_{13}H_{14}N_2O_3 = 246.27$

154 N-Acetyl-DL-Tryptophan 99%, For Biochemistry

UNILAB

CAS 87-32-1
 $C_{13}H_{14}N_2O_3 = 246.27$
Assay (by acidimetry).....99% min.
M.P.....206 - 208°C

Maximum limit of impurities(%)
H.M. (as Pb)..... 0.001
NH₄..... 0.001

Pack Size: 25g

Acetylene Bromide

CAS 506-96-7
 $C_2H_3BrO = 122.95$

U.N Number.....1716
SUB.....8
Packing Group.....II



543 Acetylene Bromide For Synthesis

UNILAB

ASSAY.....98% min.
Density @ 25°C.....1.648 - 1.651

Pack Size: 250mL

N-Acetyl-L-Cysteine

CAS 616-91-1
 $C_5H_9NO_3S = 163.2$

3142 N-Acetyl-L-Cysteine

UNIVAR

Description: White crystalline powder
Assay.....99.0% min.

Maximum limit of impurities (%)
Ca..... 0.0005
Fe..... 0.0005
Pb..... 0.001
R.O.I..... 0.5

Cu..... 0.0005
Insoluble matter..... 0.1
Na..... 0.1

Pack size: 100g

Acetylsalicylic Acid

CAS 50-78-2

 $\text{CH}_3\text{COOC}_6\text{H}_4\text{COOH} = 180.16$ **849**

Acetylsalicylic Acid

UNILAB

Description: colourless crystals or white crystalline powder; odourless or almost odourless.

M.P. about.....143°C

Assay.....99.5-101.0%

Maximum limit of impurities(%)

Appearance of soln.

To pass test

H.M. (as Pb)..... 0.0020

Sulph. ash..... 0.1

Salicylic acid..... 0.05

L.O.D..... 0.5

Related substances..... To pass test

Conforms to BP

Pack Size: 500g

N-Acetyl-P-Phenylenediamine (See 4-Aminoacetanilide Page 43)

Acetylene Tetrabromide (See Sym-Tetrabromoethane Page 444)

Acid Blue 22 (See Aniline Blue Water Soluble C.I.42755 Page 63)

Acid Blue 74 (See Indigo Carmine Page 237)

Acid Blue 83 (See Coomassie Brilliant Blue R250 Page 152)

Acid Green (See Light Green (CI 42095) Page 257)

Acid Green 1 (See Naphthol Green B (CI 10020) Page 299)

Acid Orange 10 (See Orange G (CI 16230) Page 316)

Acid Red 27 (See Amaranth Page 42)

Acid Red 51 (See Erythrosin B Page 192)

Acid Yellow 73 (See Fluorescein Sodium Salt Page 206)

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.

Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Acridine Orange

CAS 10127-02-3
 $C_{17}H_{20}ClN_3 \cdot \frac{1}{2}ZnCl_2 = 370.0$

U.N Number.....3143
SUB.....6.1
Packing Group.....III



3171 Acridine Orange

LABCHEM

Description: brown coloured powder
Dye content: about 80%
Absorption maximum 491 – 495 nm (in 50% ethanol)
L.O.D (110°C) 5.0% min.
Suitability for electrophoresis: To pass test

Pack size: 5g

Acriflavin

CAS 8048-52-0
 $C_{14}H_{14}ClN_3 = 259.7$

304 Acriflavin

LABCHEM

Description: Orangish, yellow uniform powder
pH (1%w/v soln. @ 25°C) 2.5

Pack size: 50g

Acrylamide

CAS 79-06-1
 $C_3H_5NO = 71.08$

U.N Number.....2074
SUB.....6.1
Packing Group.....III



1305 Acrylamide, For Electrophoresis

UNIVAR

Appearance: White crystalline powder
Assay.....99.9% min.

Maximum limit of impurities (%)

DNases..... None detected
RNases..... None detected
Proteases..... None detected
Ca..... 0.001
Fe..... 0.005

Cl..... 0.005
SO₄..... 0.005
Cd..... 0.0005
Phosphatases..... None detected
Heavy metals (as Pb)..... 0.0005

Pack size: 100g

Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: www.ajaxfinechem.com/Univar

Acrylic Acid

CAS 79-10-7
 $C_3H_4O_2 = 72.06$

U.N Number.....2218
 ADG Class.....8
 SUB.....3
 Packing Group.....II



542

Acrylic Acid For Synthesis (Stabilized with 200 ppm Hydroquinone Monomethyl Ether)

UNILAB

Assay.....99% min.
 Density (20°/4°).....1.048 - 1.052
 R.I. @ 20°.....1.420 - 1.4224
 Completely miscible with water

Pack Size: 500mL

Acti-Dione

CAS 66-81-9
 $C_{15}H_{23}NO_4 = 281.35$

U.N Number.....2811
 ADG Class.....6.1
 Packing Group.....I



2434

Acti-Dione

LABCHEM

Grey-yellow cryst powder.
 Assay(TLC).....94% min.

Pack Size: 5g

Activated Alumina (See Anti-Bumping Granules Page 67)

ADA (N-(-2-Acetamido)-2-Iminodiacetic Acid) Biological Buffer

CAS 26239-55-4
 $C_6H_{10}N_2O_5 = 190.2$

3299

ADA (N-(-2-Acetamido)-2-Iminodiacetic Acid) Biological Buffer

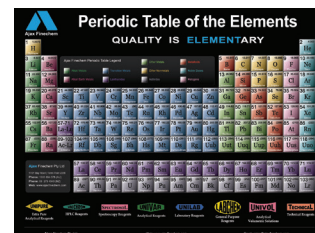
UNIVAR

Description: White powder
 Assay.....98.0% min.
 pKa.....6.4 – 6.8

Pack size: 100g, 1KG

Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at www.ajaxfinechem.com/Marketing or email your request to sales@ajaxfinechem.com



Adenine

CAS 73-24-5
 $C_5H_5N_5 = 135.13$

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



159 Adenine For Biochemistry 99%(In Microbial Determination Of Niacin) UNILAB

Assay.....99% min.
M.P.300°C max.

Maximum limit of impurities(%)
H.M. (as Pb)..... 0.001

Pack Size: 5g

Adenine Sulphate 99%

CAS 321-30-2
 $(C_5H_5N_5)_2H_2SO_4 = 368.33$

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



3410 Adenine Sulphate 99%(For Desensitization Of Photographic Gelatin) UNILAB

Assay.....99.5% min.
M.P.205 - 215°C

Pack Size: 10g

Adenosine

CAS 58-61-7
 $C_{10}H_{13}N_5O_4 = 267.25$

519 Adenosine For Biochemistry (Used as a substrate in determination of Adenosine deaminase) UNILAB

Assay.....99% min.
M.P. 235 – 238°C
Insoluble with water
Hardly soluble in organic solvent

Maximum limit of impurities(%)
H.M. (as Pb)..... 0.001

Pack Size: 5g

Analytical Reagents



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Adenosine-5-Monophosphoric Acid Sodium Salt

CAS 4578-31-8
 $C_{10}H_{12}N_5Na_2O_7P = 391.19$

166 Adenosine-5-Monophosphoric Acid Sodium Salt For Biochemistry (A.M.P.) UNILAB

Assay (UV).....	97%
Purity (UV).....	97.5%
Water.....	20 – 23%
UV Absorption ratio .....(0.01N-HCl)	
250/260.....	0.79
280/260.....	0.15

Pack Size: 5g

Adermine Hydrochloride (See Pyridoxine Hydrochloride Page 371)

Adipic Acid

CAS 124-04-9
Synonyms: Hexanedioic acid
 $C_6H_{10}O_4 = 146.14$

2366 Adipic Acid UNILAB

Assay (by acidimetry).....	99% min.
M.P.	148 – 151°C

Pack Size: 500g

Adipic Acid Chloride (See Adipoyl Chloride Page 33)

Adipoyl Chloride

CAS 111-50-2
 $(CH_2CH_2COCl)_2 = 183.04$

U.N Number.....1760
 ADG Class.....8
 Packing Group.....III



2350 Adipoyl Chloride LABCHEM

Density.....	about 1.25g/mL
Assay (ex Cl)	97% min.

Pack Size: 25mL

Adipoyl Dichloride (See Adipoyl Chloride Page 33)

Adonitol

CAS 488-81-3

Synonyms: Adonite, Ribitol

$C_5H_{12}O_5 = 152.15$

3166 Adonitol For Biochemistry (Reagent biochemical identification)

UNILAB

Assay.....99% min.
M.P.100 – 105°C
Suitability for Microbiology Passes test
Water.....0.5%

Pack Size: 5g

Adrenaline Bitartrate

CAS 51-42-3

Synonyms: Adrenaline Hydrogen Tartrate

$C_{13}H_{19}NO_9 = 333.30$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....I



172 Adrenaline Bitartrate

UNILAB

ASSAY.....99% min.
M.P. (with decomposition).....150 - 155°C
pH (1% solution).....2.8 -3.8

Pack Size: 1g

Adrenaline Hydrogen Tartrate (See Adrenaline Bitartrate Page 34)

Aesculin

CAS 66778-17-4

$C_{15}H_{16}O_9 + H_2O = 367.31$

187 Aesculin

UNILAB

Assay.....98% min.
M.P.215°C

Maximum limit of impurities(%)

Water 6.5 – 8.0

Sulphated ash..... 0.1

Fraxine..... 0.5

H.M. (as Pb)..... 0.004

Pack Size: 5g

Agar

CAS 9002-18-0

863 Agar, Powder

LABCHEM

Gel strength.....1000g/sq.cm.
Moisture.....22% max.
Insol.in boiling water.....2% max.
Crude Ash.....4% max.

Pack Size: 100g, 500g

Agarose ME

CAS 9012-36-6

6249 Agarose ME, For Electrophoresis

LABCHEM

Description: White crystalline powder

EEO.....0.15 – 0.2

Gel strength (1% gel).....1000g/cm² min.

Gelling Point (1.5% gel).....34.5 – 37.5°C

Melting Point.....85 – 90°C

Pack size: 25g

Ajax Labware Detergent

7875 Ajax Labware Detergent

LABCHEM

This powerful detergent, which contains both anionic and cationic surfactants, has been specially developed to tackle the sometimes difficult but important job of thorough cleaning laboratory ware.

It is specially formulated for manual cleaning, ultrasonic cleaning, and may be used in washing machines.

Contains 5% Potassium Hydroxide

Free of Phosphate, Chlorine, Enzymes, and EDTA.

Ajax Labware Detergent is completely biodegradable.

DL-Alanine

CAS 302-72-7

Synonyms: 2-Aminopropionic Acid

C₃H₇NO₂ = 89.09

3004 DL-Alanine For Biochemistry

LABCHEM

Assay (HClO₄ titration).....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Pack Size: 25g

L-Alanine

CAS 56-41-7

C₃H₇NO₂ = 89.09

3002 L-Alanine

UNIVAR

Description: White and odourless crystalline powder having a sweetish taste

Assay.....99.0% min.

Maximum limit of impurities(%)

Ca..... 0.001

Fe..... 0.0005

L.O.D..... 0.05

Pb..... 0.0005

R.O.I..... 0.05

Cl..... 0.005

SO₄..... 0.0055

Foreign amino acid..... 0.3

Pack size: 100g

Alginate (See Sodium Alginate Page 392)

Alginic Acid

CAS 9005-32-7

$(C_6H_8O_6)_n$ = Approx. 48000 – 186000

170 Alginic Acid (Mixed polymer of mannuronic & glucuronic acid) UNILAB

pH (3% solution in H₂O).....1.5 – 3.5

Maximum limit of impurities(%)

As..... 0.0001

Fe..... 0.03

H.M. (as Pb)..... 0.004

Loss on drying..... 10

Ash..... 3

Gelation test..... To pass test

Pack Size: 500g

Alizarin

CAS 130-22-3

$C_{14}H_7O_7Na$ = 342.26

2354 Alizarin Red S (CI 58005) LABCHEM

Adsorption and pH indicator.

Pack Size: 25g

Alizarin Sulphonate Sodium (See Alizarin Red S Page 36)

Alloxan Monohydrate

CAS 2244-11-3

$C_4H_2N_2O_4 \cdot H_2O$ = 160.09

192 Alloxan Monohydrate UNILAB

Assay (Ex N).....98.0% min.

M.P.About 250°C with decomposition

Store below.....+15°C

Pack Size: 25g

Aluminium

CAS 7429-90-5

875 Aluminium Foil UNIVAR

Al = 26.98

Thickness approx.0.1 mm.

Approx dimension: 20 cm x 20 cm x 0.1 mm thick.

Approx.....50 sheets / pack.

Assay.....99% min.

Pack Size: 500g

3005 Aluminium, Wire UNIVAR

Al = 26.98

Description: a bright silver-grey metal.

Assay.....99.9% min.

Maximum limit of impurities(%)

Acid insol. matter..... 0.005

N cpds (as N)..... 0.001

Si..... 0.005

Cu..... 0.005

Fe..... 0.008

Mn..... 0.002

Ti..... 0.03

Conforms to ACS

Pack Size: 500g

Aluminium

CAS 7429-90-5

U.N Number.....1396

ADG Class.....4

Packing Group.....II



1657 Aluminium, Fine Powder TECHNICAL

Al = 26.98

Ave. particle size 40 micrometres

Pack Size: 100g,500g,10kg

Aluminium 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....II



2620 Aluminium 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Aluminium standard, ready for use.

Al in 6.5% nitric acid.

Traceable to NIST

Pack Size: 100mL

Aluminium AAS Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....II



2605 Aluminium AAS Standard SPECTROSOL

A 1000 ppm Aluminium standard, ready for use.

Each mL contains 1.00 mg ± 0.005 mg of Al in 6.5% nitric acid

Traceable to NIST

Pack Size: 500mL

Aluminium Ammonium Sulphate

CAS 7784-26-1
 $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 453.33$

14 Aluminium Ammonium Sulphate

UNIVAR

CAS 7784-26-1
 $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 453.33$
Description: colourless crystals or crystalline powder.
 Assay.....99% min.
 pH (5% soln @ 25°C).....3.0 min.

Maximum limit of impurities(%)

Insol.	0.005	As.	0.00005
Cl.	0.002	Fe.	0.0005
NO_3	0.001	H.M. (as Pb).	0.0005
PO_4	0.0025	K.	0.1
SiO_2	0.002	Na.	0.005

Pack Size: 500g, 5 kg, 25kg

Aluminium Chloride Hydrated

CAS 7446-70-0
 $\text{AlCl}_3 \cdot 6\text{H}_2\text{O} = 241.43$

U.N Number.....3260
 ADG Class.....8
 Packing Group.....III



879 Aluminium Chloride Hydrated

UNIVAR

Assay.....95.0-102.0%
 pH (5%).....2.3-3.5

Maximum limit of impurities(%)

SO_4	0.01	K.	0.01
Fe.	0.001	Ca.	0.02
H.M. (as Pb).	0.001	Mg.	0.01
NH_4	0.01	Na.	0.1
As.	0.0004		

Chemical and physical parameters conform to USP

Pack Size: 500g, 5kg

Aluminium Hydroxide Gel

CAS 21645-51-2
 $\text{Al}(\text{OH})_3 + \text{H}_2\text{O} = 78.00$

880 Aluminium Hydroxide Gel

UNIVAR

Assay (as Al_2O_3).....47 – 60%
 Reaction of aqueous extract pH.....<10

Maximum limit of impurities(%)

R.O.I.	10 – 18	NH_3	0.05
Cl.	0.025	Fe.	0.01
SO_4	0.5	Na.	0.01

Pack Size: 500g

Aluminium Hydroxide

CAS 21645-51-2
Al(OH)₃ = 78.00

1692 Aluminium Hydroxide UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

Cl.	0.002	Fe.	0.005
SO ₄	0.005	H.M. (as Pb).....	0.005

Pack Size: 1kg, 20kg

Aluminium Nitrate

CAS 7784-27-2
Al(NO₃)₃.9H₂O = 375.13

U.N Number.....1438
ADG Class.....5.1
Packing Group.....III



17 Aluminium Nitrate UNILAB

Assay.....98.0%
pH (5%).....2.5 - 3.5

Maximum limit of impurities(%)

Ca.	0.02	K.	0.05
Mg.	0.005	H.M.(as Pb).....	0.001
Fe.	0.005	Cl.	0.005
Na.	0.02	SO ₄	0.005

Pack Size: 500g, 5kg, 25kg

901 Aluminium Nitrate LABCHEM

Assay.....95.0% min.

Maximum limit of impurities(%)

H.M.(as Pb).....	0.005
Cl.	0.005

Pack Size: 500g

Aluminium Oxide

CAS 1344-28-1
Synonyms:Alumina
Al₂O₃ = 101.96

1736 Aluminium Oxide UNIVAR

Description: white powder.

Assay.....98% min.

Maximum limit of impurities(%)

Alkali (as Na ₂ O).....	0.3	Fe.	0.03
L.O.I. (@1100°C).....	0.5	H.M (as Pb).....	0.005
Cl.	0.005	SiO ₂	0.1
SO ₄	0.05		

Pack Size: 500g

18 Aluminium Oxide Calcined UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

L.O.I. (@1000°C)..... 2

Fe₂O₃..... 0.1

Pack Size: 500g, 5Kg

1661 Aluminium Oxide B A 2 Basic LABCHEM

Suitable for chromatography. Basic, Brockman Activity II.

pH(aqueous suspension).....9.0-10.5

L.O.I.....8%

Water soluble matter.....0.5%

Maximum limit of impurities(%)

Cl..... 0.005

SO₄..... 0.01

Cu..... 0.005

Ni..... 0.005

Fe..... 0.005

Pb..... 0.005

Pack Size: 1kg

1660 Aluminium Oxide B A 1 Basic LABCHEM

Suitable for chromatography.

Basic, Brockman activity I.

Pack Size: 1kg

Aluminium Potassium Sulphate

CAS 10043-67-1

Synonyms:Potassium Aluminium Sulphate, Potassium Alum

AlK(SO₄)₂·12H₂O = 474.38

21 Aluminium Potassium Sulphate UNIVAR

Description: colourless crystals or crystalline powder.

Assay.....98.0-102.0%

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.0005

As..... 0.0002

Fe..... 0.001

H.M. (as Pb)..... 0.001

Na..... 0.02

NH₄..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

22 Aluminium Potassium Sulphate UNILAB

Assay.....98.0-102.0%

Maximum limit of impurities(%)

Cl..... 0.01

Fe..... 0.01

H.M. (as Pb)..... 0.01

NH₄..... 0.05

Pack Size: 500g, 5kg

2250 Aluminium Potassium Sulphate LABCHEM

Assay.....98%min

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.01

Pack Size: 1kg,3kg

Aluminium Silicate (See Kaolin Acid Washed Page 246)

Aluminium Stearate

CAS 637-12-7
 $[\text{CH}_3(\text{CH}_2)_{16}\text{COO}]_3\text{Al} = 877.35$

1295 Aluminium Stearate UNIVAR

Assay (as Al_2O_3).....6.5 – 8.9%

M.P.120 -130°C

Bulk Density.....20 g/100 ml

Identity (IR Spectrum) To passes test

Maximum limit of impurities(%)

Cl. 0.5

H.M. (as Pb)..... 0.01

Fe. 0.01

R.O.I.75 – 10.0

Water..... 2

Pack Size: 500g

Aluminium Sulphate

CAS 7784-31-8
 $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O} = 666.45$

24 Aluminium Sulphate UNIVAR

Description: Colourless, lustrous crystals or crystalline powder.

Assay (anhydrous).....51.0-59.0%

pH (2% @ 20°C).....2.5-4.0

Maximum limit of impurities(%)

Clarity & colour of solution To pass test

As. 0.0005

Fe. 0.01

H.M. (as Pb)..... 0.004

NH_4 0.05

Alkaline+Alkaline earth metals..... 0.4

Pack Size: 500g, 5kg

25 Aluminium Sulphate UNILAB

Description: Colourless, lustrous crystals or crystalline powder.

Assay (anhydrous).....96%min

pH (2% @ 20°C).....3 approx

Maximum limit of impurities(%)

Fe. 0.04

H.M. (as Pb).....0.05

Pack Size: 500g, 25kg

Aluminium Trichloride (See Aluminium Chloride Page 38)

Aluminon (CI 43810)

CAS 569-58-4

$(\text{NH}_4\text{OCOC}_6\text{H}_3(\text{OH}))_2\text{C}:\text{C}_6\text{H}_3(\text{COONH}_4):\text{O} = 473.$

882 Aluminon (CI 43810)

UNIVAR

Description: brown-red crystalline powder.
Reagent for aluminium.

Maximum limit of impurities(%)

Sensitivity to aluminium.....To pass test

Pack Size: 10g

Amaranth (CI 16185)

CAS 915-67-3

Synonyms: Acid red 27

C.I. No. 16185

$\text{C}_{20}\text{H}_{11}\text{N}_2\text{Na}_3\text{O}_{10}\text{S}_3 = 604.48$

191 Amaranth (CI 16185)

UNILAB

C.I. No. 16185
Indicator for iodate and bromate oxidimetry

Pack Size: 25g

Amberlite IR 120 Standard

CAS 9002-23-7

1698 Amberlite IR 120 Standard

LABCHEM

Cation exchange resin. Strongly cationic, polystyrene sulphonic acid resin bead, sodium form.

Pack Size: 500g

1706 Amberlite IRA 402 Standard

LABCHEM

Anion exchange resin. A strongly basic unfunctional chloromethylated cross-linked polystyrene resin in bead form, containing aryl trimethyl ammonium groups.

Pack Size: 500g

1702 Amberlite MB 1

LABCHEM

A mixture of a strongly acidic nuclear grade cation resin and a strongly basic nuclear grade low chloride anion resin.

Pack Size: 500g

Aminoacetic Acid (See Glycine Page 216)

Aminobenzene (See Aniline Page 63)

4-Aminobenzenesulphonic Acid (See Sulphanilic Acid Page 437)

1-Aminobutane (See N-Butylamine Page 111)

P-Amino-N,N-Dimethylaniline (See N-N-Dimethyl-P-Phenyl-Enediamine Page 182)

1-Amino-2-Hydroxy-4-Naphthalenesulphonic Acid (See 1-Amino-2-Naphthol-4-Sulphonic Acid Page 45)

Amidosulphonic Acid (See Sulphamic Acid Page 437)

2-Amino-2-Methyl-1,3 Propanediol

CAS 115-69-5
C₄H₁₁NO₂ = 105.14

U.N Number.....3259
ADG Class.....8
Packing Group.....II



529 2-Amino-2-Methyl-1,3 Propanediol

UNILAB

Assay.....99% min.

Pack Size: 100g, 500g

2-Amino-2-Methyl-Propanol

CAS 124-68-5
C₄H₁₁NO = 89.14

U.N Number.....3259
ADG Class.....8
Packing Group.....III



272 2-Amino-2-Methyl-Propanol Suitable for Clinical work (buffer substance)

UNILAB

Assay.....95% min.
F.P.18 - 21°C

Pack Size: 500mL

4-Aminoacetanilide

CAS 122-80-5
Synonyms: N-Acetyl-P-Phenylenediamine; N-(4-Aminophenyl)acetamide
C₈H₁₀N₂O = 150.18

188 4-Aminoacetanilide For Synthesis

UNILAB

Assay (NT).....99% min.
M.P.162 - 164°C

Pack Size: 100g

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
Discover more: www.ajaxfinechem.com/Labchem

4-Aminoantipyrine

CAS 83-07-8

Synonym: 4-Aminophenazone

$C_{11}H_{13}N_3O = 230.24$

3008 4-Aminoantipyrine

OP

Assay.....99% Min.
M.P.107 – 109°C

Maximum limit of impurities(%)

L.O.D. 0.5
L.O.I. 0.1

Pack Size: 25g

4-Aminobenzoic Acid

CAS 150-13-0

$NH_2C_6H_4COOH = 137.14$

886 4-Aminobenzoic Acid

UNILAB

Assay.....99% min.
M.P.186-189°C

Store below 4°C (refrigerate)

Pack Size: 250g

4-Aminobutanoic Acid (See 4-Aminobutyric Acid Page 44)

4-Aminobutyric Acid

CAS 56-12-2

Synonyms: Gaba; 4-Aminobutanoic acid

$C_4H_9NO_2 = 103.12$

196 4-Aminobutyric Acid For Biochemistry

UNILAB

Assay (HClO₄-Titration).....>99% min.
M.P.200 – 205°C

Pack Size: 100g

2-Aminoethanol (See Ethanolamine Page 195)

4-Amino-1-Hydroxybenzene (See 4-Aminophenol Page 45)

2-Amino-2(Hydroxymethyl)-Propane-1,3-Diol (See TRIS Page 462)

Aminomethane (See Methylamine Aqueous Soln Page 286)

DL-2-Amino-4-(Methylmercapto) Butyric Acid (See DL-Methionine Page 285)

4-Aminophenazone (See 4-Aminoantipyrine Page 44)

1-Amino-2-Naphthol-4-Sulphonic Acid

CAS 116-63-2
 $\text{NH}_2\text{C}_{10}\text{H}_5(\text{OH})\text{SO}_3\text{H} = 239.25$

2378 1-Amino-2-Naphthol-4-Sulphonic Acid

LABCHEM

Sens. to PO_41 in 2,900,000.
 Assay about.....98% min.
 Darkens on storage.

Maximum limit of impurities(%)
 H_2O5
 Sulph Ash.....0.5

Pack Size: 25g

4-Aminophenol

CAS 123-30-8
 Synonyms: 4-Hydroxyaniline; 4-Amino-1-hydroxybenzene
 $\text{C}_6\text{H}_7\text{NO} = 109.13$

U.N Number.....2512
 ADG Class.....6.1
 Packing Group.....III



1298 4-Aminophenol

UNILAB

Assay.....98% Min.
 M.P.185 – 189°C

Pack Size: 100g

3-Amimophenol

CAS 591-27-5
 $\text{C}_6\text{H}_7\text{NO} = 109.13$

U.N Number.....2512
 ADG Class.....6.1
 Packing Group.....III



190 3-Amimophenol

UNILAB

Assay.....98.0% Min.
 Melting Point.....120 - 124°C

Pack Size: 100g

2-Amimophenol

CAS 95-55-6
 $\text{C}_6\text{H}_7\text{NO} = 109.13$

U.N Number.....2512
 ADG Class.....6.1
 Packing Group.....III



1297 2-Amimophenol

UNILAB

Assay.....98.0% Min.
 Melting Point.....170 - 174°C

Pack Size: 100g

N-(4-Aminophenyl)Acetamide (See 4-Aminoacetanilide Page 43)

2-Aminopropionic Acid (See DL-Alanine Page 35)

2-Aminopyridine

CAS 504-29-0
 $C_5H_6N_2 = 94.12$

U.N Number.....2671
ADG Class.....6.1
Packing Group.....II



703 **2-Aminopyridine** UNILAB

Assay.....98.0% Min.
Melting Point.....54 - 58°C

Pack Size: 100g

4-Aminotoluene (See P-Toluidine Page 456)

Ammonium Hydroxide (See Ammonia Page 46)

Ammonia Solution, 28%

CAS 1336-21-6
Synonyms:Ammonium Hydroxide
 $NH_4OH = 35.05 NH_3 = 17.03$

U.N Number.....2672
ADG Class.....8
Packing Group.....III



43 **Ammonia Solution, 28%** UNIVAR

Description: colourless liquid with a characteristic pungent odour. Free from suspended matter or sediment. Density about 0.89g/mL

Assay (as NH_3).....28.0-30.0% w/w
Colour (HU).....10 max.

Maximum limit of impurities(%)

R.A.I.	0.002
Carbon dioxide (CO_2).....	0.002
Cl.	0.00005
H.M. (as Pb).....	0.00005
SO_4	0.0002
PO_4	0.0002
Nitrate (as NO_3).....	0.0002
Subs.red. $KMnO_4$	To pass test
Al.....	0.00002
Fe.....	0.00002
Zn.....	0.00002
K.....	0.0001
Ca.....	0.0001

Na.....	0.0005
Mg.....	0.00001
Cd.....	0.00001
Ba.....	0.00001
Sr.....	0.000002
Cr.....	0.000002
Co.....	0.000002
Mn.....	0.000002
Mo.....	0.000002
Ni.....	0.000002
Pb.....	0.000005
Cu.....	0.000005

Conforms to ACS

Pack Size: 500mL, 2.5L GL

Ammonium Acetate

CAS 631-61-8

Synonyms: Acetic Acid Ammonium Salt

CH₃COONH₄ = 77.08

27

Ammonium Acetate

UNIVAR

Description: colourless moist crystals.

Assay.....97% min.

pH (5% soln. @ 25°C).....6.7-7.3

Maximum limit of impurities(%)

Water insol matter..... 0.005

R.A.I..... 0.01

Cl..... 0.0005

PO₄..... 0.0005

Ca..... 0.0005

NO₃..... 0.001

SO₄..... 0.001

Cu..... 0.0001

Fe..... 0.0001

Mg..... 0.0001

Pb..... 0.0001

K..... 0.001

Na..... 0.001

HM(as Pb)..... 0.0005

Conforms to ACS

Pack Size: 100g,500g, 5kg, 25kg

28

Ammonium Acetate

UNILAB

Assay.....96.0% min.

pH (5% Soln. @ 25°C).....6.5 min.

Maximum limit of impurities(%)

Sulph. ash..... 0.035

Cl..... 0.005

SO₄..... 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg, 25kg

Ammonium Adipate

CAS 3385-41-9

C₆H₁₂N₂O₄ =180.14

447

Ammonium Adipate

UNIVAR

Assay.....99.0% min.

pH.....6.5 – 7.5

Solubility (10% Aq. Soln).....Clear & Colourless

Maximum limit of impurities(%)

Cl..... 0.0004

SO₄..... 0.0002

H₂O..... 0.1

Pack Size: 500g

Ammonium Aluminium Sulphate (See Aluminium Ammonium Sulphate Page 38)

Ammonium Alum (See Aluminium Ammonium Sulphate Page 38)

Ammonium Aurine Tricarboxylate (See Aluminon Page 42)

Ammonium Benzoate

CAS 1863-63-4
C₇H₉NO₂ = 139.15g/mol

3009 Ammonium Benzoate

UNILAB

Assay (acidimetry)98.0% min.
pH (10% in water).....6.8

Maximum limit of impurities(%)
H.M. (as Pb)..... 0.001
Impurities Oxidizables.To passes test
(as Cinnamic acid)

Pack Size: 500g

Ammonium Bicarbonate (See Ammonium Hydrogen Carbonate Page 53)

Ammonium Bifluoride (See Ammonium Hydrogen Difluoride Page 53)

Ammonium Bromide

CAS 12124-97-9
H₄BrN = 97.94

887 Ammonium Bromide

UNIVAR

Description: White odourless crystals

Assay.....99.0% min.

Maximum limit of impurities (%)
H.M. (as Pb)..... 0.005
Cl..... 0.5

SO₄..... 0.05

Pack size: 500g

Ammonium Carbonate

CAS 506-87-6
NH₄HCO₃ + NH₂COONH₄

29 Ammonium Carbonate

UNIVAR

Description: white translucent lumps with strong odour of ammonia.

Assay (as NH₃).....30.0% min.

Maximum limit of impurities(%)
Insol. 0.005
Non-vol. 0.01
Cl..... 0.0001
S cpds (as SO₄)..... 0.0002
Fe..... 0.0005

H.M. (as Pb)..... 0.0005
R.O.I.(as SO₄)..... 0.005
As..... 0.0001
Zn..... 0.0001
Cu..... 0.0001

Conforms to ACS

Pack Size: 500g, 25kg

30

Ammonium Carbonate

UNILAB

Assay (as NH₃).....30% min.

Maximum limit of impurities(%)

Non-vol.	0.02
Cl.	0.002
S cpds (as SO ₄).....	0.002
Fe.	0.02

Pack Size: 500g, 25kg

Ammonium Cerium (IV) Nitrate

CAS 16774-21-3

Synonyms: Ammonium Hexanitratecerate (IV), Ammonium Ceric Nitrate
(NH₄)₂Ce(NO₃)₆ = 548.23

U.N Number.....1477

ADG Class.....5.1

Packing Group.....II



889

Ammonium Cerium (IV) Nitrate

UNIVAR

Description: orange-yellow crystalline powder.

Assay 98.5% min.

Maximum limit of impurities(%)

Insol. (in dil.H ₂ SO ₄).....	0.05	PO ₄	0.02
Cl.	0.01	Fe.....	0.005

Conforms to ACS

Pack Size: 100g, 500g

Ammonium Cerium (IV) Sulphate

CAS 10378-47-9

(NH₄)₄Ce(SO₄)₄.2H₂O = 632.56

1180

Ammonium Cerium (IV) Sulphate

TECHNICAL

Pack Size: 500g

Ammonium Ceric Nitrate (See Ammonium Cerium (IV) Nitrate Page 49)

Ammonium Chloride

CAS 12125-02-9

NH₄Cl = 53.49

31

Ammonium Chloride

UNIVAR

Description: white crystalline powder.

Assay.....99.5% min.

pH (5% soln. @ 25°C).....4.5-5.5

Maximum limit of impurities(%)

Insol.	0.005	K.	0.005
R.A.I.	0.01	Na.	0.005
PO ₄	0.0002	Pb.	0.0002
SO ₄	0.002	Mg.....	0.0002
Ca.	0.001	As.	0.0003
Fe.....	0.0001	L.O.D.....	0.5
Cu.	0.0001	HM (as Pb).....	0.0005

Conforms to ACS

Pack Size: 500g, 1kg, 2kg, 5kg, 25kg

32

Ammonium Chloride

UNILAB

Description: Colourless crystals or white, crystalline powder; odourless.

Assay(after drying).....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test

Sulph. ash..... 0.1

L.O.D.@105 Deg.C..... 1.0

Acidity or alkalinity..... 0.5

Br & I..... To pass test

SO₄..... 0.0150

Ca..... 0.020

Fe..... 0.0020

H.M. (as Pb)..... 0.0010

Chemical & physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

902

Ammonium Chloride

LABCHEM

Assay (Dry basis).....98.0% min.

Maximum limit of impurities(%)

SO₄..... 0.05

H.M. (as Pb)..... 0.01

Pack Size: 500g, 25KG

tri-Ammonium Citrate

CAS 3458-72-8

(NH₄)₃C₆H₅O₇ = 243.22

890

tri-Ammonium Citrate

UNIVAR

Description: colourless crystals.

Assay.....98.5 - 101.0%

pH (5% soln.).....6.0-7.5

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.001

Oxalate (C₂O₄)..... 0.01SO₄..... 0.005

Cu..... 0.00005

Fe..... 0.0005

K..... 0.003

Na..... 0.004

Pb..... 0.0005

Subs. Carb. By hot Sulphuric Acid.....To pass test

Red. subs.....To pass test

Pack Size: 500g

850

tri-Ammonium Citrate

UNILAB

Assay.....98.0% min.

pH (5% soln.).....6.0-7.5

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Cl..... 0.01

SO₄..... 0.01

Pack Size: 500g

Ammonium Citrate Dibasic (See Di-Ammonium Hydrogen Citrate Page 53)

Ammonium Dichromate

CAS 7789-09-5
(NH₄)₂Cr₂O₇ = 252.07

U.N Number.....1439
ADG Class.....5.1
Packing Group.....II



34

Ammonium Dichromate

UNILAB

Assay.....97% min.
L.O.D. @ 105°C.....3%

Maximum limit of impurities(%)

Cl.....	0.005	Fe.....	0.005
SO ₄	0.02	Na.....	0.01

Pack Size: 500g, 25kg

Ammonium Dihydrogen Orthophosphate

CAS 7722-76-1
Synonyms:Ammonium Phosphate Monobasic
NH₄H₂PO₄ = 115.03

35

Ammonium Dihydrogen Orthophosphate

UNIVAR

Description: colourless crystals or crystalline powder.

Assay.....98.0 min.
pH (5% soln. @ 25°C).....3.8-4.4

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.001
Ca.....	0.001	H.M. (as Pb).....	0.0005
Cl.....	0.0005	K.....	0.005
NO ₃	0.001	Mg.....	0.0005
S cpds (as SO ₄).....	0.005	Na.....	0.005
As.....	0.00005		

Chemical and physical parameters conform to FCC

Conforms to ACS

Pack Size: 500g

36

Ammonium Dihydrogen Orthophosphate

UNILAB

pH(5% soln.) about 4.0
Assay 98.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	Fe.....	0.002
S cpds (as SO ₄).....	0.01	H.M. (as Pb).....	0.002
As.....	0.0005		

Pack Size: 500g

Ammonium Ferric Citrate (See Ammonium Iron (III) Citrate Green Page 55)

Ammonium Ferric Sulphate (See Ammonium Iron (III) Sulphate Page 56)

Ammonium Ferrous Sulphate (See Ammonium Iron (II) Sulphate Page 55)

Ammonium Fluoride

CAS 12125-01-8
 $\text{NH}_4\text{F} = 37.04$

U.N Number.....2505
 ADG Class.....6.1
 Packing Group.....III



851 Ammonium Fluoride UNIVAR

Assay.....98.0% min.

Maximum limit of impurities (%)

Ammonium Hydrogen Difluoride (NH_4HF_2).....	1	Na.....	0.002
Water insoluble matter.....	0.005	Pb.....	0.0005
R.O.I. (as SO_4).....	0.005	Zn.....	0.0005
Cd.....	0.0005	H.M. (as Pb).....	0.0005
Cu.....	0.0005	Cl.....	0.0005
Fe.....	0.0005	Hexafluorosilicate (as SiF_6).....	0.1
K.....	0.002	SO_4	0.005

Conforms to ACS

Pack size: 500g, 25kg

894 Ammonium Fluoride UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

Fe.....	0.005
H.M. (as Pb).....	0.001
SO_4	0.01

Pack size: 500g

Ammonium Formate

CAS 540-69-2
 $\text{HCOONH}_4 = 63.06$

852 Ammonium Formate UNIVAR

Description: colourless, deliquescent crystals.

Assay.....97.0% min.
 pH (5% soln.).....6.0 - 7.0

Maximum limit of impurities(%)

Insol.....	0.001	Cu.....	0.0001
Non-vol.....	0.01	Fe.....	0.0005
Cl.....	0.001	Pb.....	0.0001
SO_4	0.005		

Pack Size: 500g

Ammonium Hexanitratecerate (IV) (See Ammonium Cerium (IV) Nitrate Page 49)

Ammonium Hydrogen Carbonate

CAS 1066-33-7

Synonyms: Ammonium Bicarbonate

 $\text{NH}_4\text{HCO}_3 = 79.06$

603

Ammonium Hydrogen Carbonate

UNIVAR

Description: white crystalline powder with a slight ammoniacal odour.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol..... 0.005

R.A.I..... 0.01

Cl..... 0.005

Mg..... 0.01

SO₄..... 0.007

As..... 0.0002

Ca..... 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.001

Sulphide..... To pass test

Tarry matter..... To pass test

Pack Size: 1kg, 25kg

897

Ammonium Hydrogen Carbonate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

SO₄..... 0.01

Fe..... 0.004

H.M. (as Pb)..... 0.0005

Pack Size: 500g, 5kg, 25kg

di-Ammonium Hydrogen Citrate

CAS 3012-65-5

 $(\text{NH}_4)_2\text{HC}_6\text{H}_5\text{O}_7 = 226.19$

1301

di-Ammonium Hydrogen Citrate

UNILAB

Assay.....98% min.

pH (5% soln. @ 20°C).....4.5-5.5

Maximum limit of impurities(%)

Cl..... 0.005

SO₄..... 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg

Ammonium Hydrogen Difluoride

CAS 1341-49-7

Synonyms: Ammonium Bifluoride

 $\text{NH}_4\text{HF}_2 = 57.0$

U.N Number.....1727

ADG Class.....8

Packing Group.....II



853

Ammonium Hydrogen Difluoride

UNILAB

Description: colourless, deliquescent crystals.

Assay.....95% min.

Maximum limit of impurities(%)

RAI..... 0.2

Cl..... 0.1

SO₄..... 0.1

Fe..... 0.05

H.M. (as Pb)..... 0.05

Pack Size: 500g, 5kg, 25kg

Di-Ammonium Hydrogen Orthophosphate

CAS 7783-28-0

Synonyms: Ammonium Phosphate Dibasic

$(\text{NH}_4)_2\text{HPO}_4 = 132.06$

41 Di-Ammonium Hydrogen Orthophosphate

UNIVAR

Description: colourless crystals or crystalline powder.

Assay.....98.0% min.

pH (5% soln. @ 25°C).....7.7 – 8.1

Maximum limit of impurities(%)

Insol. 0.005

Ca. 0.001

Cl. 0.001

NO_3 0.003

S cpds (as SO_4). 0.01

As. 0.0003

Fe. 0.001

H.M. (as Pb). 0.001

K. 0.005

Mg. 0.0005

Na. 0.005

F. 0.001

Chemical and physical parameters conform to FCC

Conforms to ACS

Pack Size: 500g

42 Di-Ammonium Hydrogen Orthophosphate

UNILAB

pH(5% soln. @25°C).....about 8.0

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl. 0.005

S cpds (as SO_4). 0.02

Fe. 0.002

H.M. (as Pb). 0.002

Pack Size: 500g, 5kg

Ammonium Iodide

CAS 12027-06-4

$\text{NH}_4\text{I} = 144.94$

193 Ammonium Iodide

UNIVAR

Assay.....99.5% min.

pH (5% Solution).....4.5 – 6.5

Maximum limit of impurities(%)

Cl & Br (as Cl). 0.005

SO_4 0.002

IO_3 0.0005

PO_4 0.001

SiO_2 0.0005

Pb. 0.0001

Cu. 0.0001

Fe. 0.0002

Ca. 0.001

Ba. 0.002

L.O.D. (@ 105°C). 0.05

R.O.I. (as SO_4). 0.02

Pack Size: 500g

900 Ammonium Iodide UNILAB

Assay (after drying).....99.0% min.

Maximum limit of impurities(%)

R.A.I.	0.05	Ba.	0.002
SO ₄	0.01	Pb.	0.001

Pack Size: 100g, 500g, 5kg

Ammonium Iron(III) Citrate Green

CAS 1185-57-5

Synonyms:Ammonium Ferric Citrate

892 Ammonium Iron(III) Citrate Green UNILAB

Description: Greenish -yellow powder.

Assay (as Fe).....14.0 - 16.0%

Maximum limit of impurities(%)

SO ₄	0.4	Pb.	0.003
As.....	0.0004	Cl.	0.02

Pack Size: 500g, 5kg

1586 Ammonium Iron(III) Citrate, Brown TECHNICAL

Assay(as Fe).....20.5 - 22.5%

Pack Size: 500g, 5kg

Ammonium Iron(II) Sulphate

CAS 7783-85-9

Synonyms:Ammonium Ferrous Sulphate

(NH₄)₂SO₄.FeSO.6H₂O₄ = 392.13

39 Ammonium Iron(II) Sulphate UNIVAR

Description: pale green-blue crystals or crystalline powder.

Assay.....99% min.

pH (5% solution).....3 - 5

Maximum limit of impurities(%)

Ca.	0.002	K.	0.01
PO ₄	0.002	Pb.	0.001
Cu.	0.002	Fe(III).....	0.02
Na.	0.01	Mg.....	0.01
Mn.....	0.05	Cl.	0.001
Zn.	0.003		

Pack Size: 500g, 5kg

40 Ammonium Iron (II) Sulphate UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cu.	0.005	Mg.....	0.02
Fe(III).....	0.01	Na.	0.01
Zn.	0.02	Ca.	0.02

Pack Size: 500g

Ammonium Iron(III) Sulphate

CAS 7783-83-7

Synonyms: Ammonium Ferric Sulphate

$\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 482.18$

37 Ammonium Iron(III) Sulphate

UNIVAR

Description: pale violet crystals; may turn brown due to hydrolysis during storage.

Assay.....98.5 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.01

Cl..... 0.001

NO_3 0.01

Fe(II)..... 0.001

Zn..... 0.003

Cu..... 0.002

Subs. not ppt. by NH_4OH 0.05

Ca..... 0.01

K..... 0.005

Mg..... 0.001

Mn..... 0.005

Na..... 0.01

Pb..... 0.005

Conforms to ACS

Store below 25°C, in a dry place

Pack Size: 500g, 25kg

38 Ammonium Iron(III) Sulphate

UNILAB

Description: pale violet crystals; may turn brown due to hydrolysis during storage.

Assay.....98.5 min.

Maximum limit of impurities(%)

Fe(II)..... 0.01

Subs. not ppt. by NH_4OH 0.2

Store below 25°C, in a dry place

Pack Size: 500g, 5Kg

Ammonium Metavanadate

CAS 7803-55-6

$\text{NH}_4\text{VO}_3 = 116.98$

U.N Number.....2859

ADG Class.....6.1

Packing Group.....II



45 Ammonium Metavanadate

UNIVAR

Description: off-white to pale yellow powder.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insoluble matter in NH_4OH 0.01

Cl..... 0.005

SO_4 0.01

PO_4 0.005

CO_3 0.3

Cu..... 0.002

Fe..... 0.002

Ni..... 0.002

Pb..... 0.002

Pack Size: 100g, 500g

903 Ammonium Metavanadate

UNILAB

Assay.....98.0% min.

Pack Size: 100g, 500g, 5kg

Ammonium Molybdate

CAS 12054-85-2

Synonyms: Ammonium Heptamolybdate

$(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O} = 1235.86$

46

Ammonium Molybdate, powder

UNIVAR

Description: white crystals, at times with a pale green tint.

Assay (as MoO_3).....81.0-83.0%

Maximum limit of impurities(%)

Insol.	0.005	SO_4	0.02
$\text{AsO}_4, \text{PO}_4$ & SiO_3 (as SiO_2).....	0.001	H.M. (as Pb).....	0.001
Cl.	0.002	Mg.....	0.005
NO_3.....	.To pass test	K.....	0.01
PO_4	0.0005	Na.....	0.01

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

Ammonium Nickel Sulphate

CAS 7785-20-8

Synonyms: di-ammonium Nickel (II) Sulphate 6 Hydrate; Nickel Ammonium Sulphate

$(\text{NH}_4)_2\text{SO}_4 \cdot \text{NiSO}_4 \cdot 6\text{H}_2\text{O} = 394.99$

904

Ammonium Nickel Sulphate

UNIVAR

Assay.....99.0% min.

ReactionNot less than pH 4.0

Maximum limit of impurities(%)

Insoluble matter.....	0.003	Fe.....	0.001
Cl.....	0.001	Pb.....	0.001
Cd.....	0.001	K.....	0.005
Ca.....	0.005	Na.....	0.005
Co.....	0.0005	Zn.....	0.002
Cu.....	0.002		

Pack Size: 500g

905

Ammonium Nickel Sulphate

UNILAB

Assay.....98.0%min.

pH (5% @ 20°C).....4-6

Maximum limit of impurities(%)

Cl.....	0.01	Zn.....	0.005
Co.....	0.1	Fe.....	0.001

Pack Size: 500g

Di-Ammonium Nickel (II) Sulphate 6 Hydrate (See Ammonium Nickel Sulphate Page 57)

Ammonium Oxalate

CAS 6009-70-7
(COONH₄)₂.H₂O = 142.11

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



51 Ammonium Oxalate

UNIVAR

Description: colourless crystals.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol.....0.005

R.A.I.....0.02

Cl.....0.002

SO₄.....0.002

Fe.....0.0002

H.M. (as Pb).....0.0005

Conforms to ACS

Pack Size: 500g, 5kg

52 Ammonium Oxalate

UNILAB

pH(5% soln.).....about 6.7

Assay.....99.0% min.

Maximum limit of impurities(%)

Sulph. ash.....0.05

Cl.....0.005

SO₄.....0.01

Fe.....0.002

H.M. (as Pb).....0.001

Pack Size: 500g

Ammonium Perchlorate

CAS 7790-98-9
NH₄ClO₄ = 117.49

U.N Number.....1442
ADG Class.....5.1
Packing Group.....II



854 Ammonium Perchlorate

UNILAB

Assay.....98.5% min.

pH (5%).....4.0-6.0

Maximum limit of impurities(%)

Cl & ClO₃.....0.003

H.M. (as Pb).....0.0005

Fe.....0.0005

SO₄.....0.001

Pack Size: 500g,5kg

Ammonium Peroxodisulphate (See Ammonium Persulphate Page 59)

Ammonium Perpurate (See Murexide Page 298)

Ammonium Persulphate

CAS 7727-54-0

Synonyms: Ammonium Peroxodisulphate

 $(\text{NH}_4)_2\text{S}_2\text{O}_8 = 228.19$

U.N Number.....1444

ADG Class.....5.1

Packing Group.....III



53

Ammonium Persulphate

UNIVAR

Description: white powder, slowly decomposes on storage with a decrease in assay and an increase in acidity.

Assay.....98.0% min.

Maximum limit of impurities(%)

Insol. 0.005

R.A.I. 0.05

Titratable free acid. 0.04 meg/g

Cl & ClO₃ (as Cl)..... 0.001

Fe..... 0.001

H.M. (as Pb)..... 0.005

Mn..... 0.00005

Conforms to ACS

Pack Size: 500g

54

Ammonium Persulphate

UNILAB

Description: white powder, slowly decomposes on storage with a decrease in assay and an increase in acidity.

Assay.....98.0% min.

Maximum limit of impurities(%)

Sulph. ash. 0.1

Cl..... 0.005

Fe..... 0.003

Mn..... 0.0002

Pack Size: 500g, 5kg, 25kg

Ammonium Phosphate Dibasic (See di-Ammonium Hydrogen Orthophosphate Page 54)

Ammonium Phosphate Monobasic (See Ammonium Dihydrogen Ortho-Phosphate Page 51)

Ammonium Pyrrolidine Dithiocarbamate

CAS 5108-96-3

 $\text{C}_4\text{H}_8\text{NCSSNH}_4 = 164.29$

844

Ammonium Pyrrolidine Dithiocarbamate

LABCHEM

Reagent for Copper, Lead & many other metals.

Store below 4°C

Pack Size: 10g

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
Discover more: www.ajaxfinechem.com/Labchem

Ammonium Sulphamate

CAS 7773-06-0
 $H_6N_2O_3S = 114.13$

1303 Ammonium Sulphamate

UNIVAR

Description: colourless to white hygroscopic crystals
Assay.....99.0% min.

Maximum limit of impurities(%)

Mg.....	0.0005	Mn.....	0.0005
Ca.....	0.001	Cd.....	0.0005
Fe.....	0.0005	Cu.....	0.0005
Cl.....	0.001	SO ₄	0.2

Pack size: 500g

Ammonium Sulphate

CAS 7783-20-2
 $(NH_4)_2SO_4 = 132.13$

56 Ammonium Sulphate

UNIVAR

Description: white crystalline powder.
Assay.....99.0% min.
pH (5% soln. @ 25°C).....5.0-6.0

Maximum limit of impurities(%)

R.A.I.....	0.005	Na.....	0.005
Cl.....	0.0005	Pb.....	0.0005
H.M.(as Pb).....	0.0005	Mg.....	0.002
NO ₃	0.001	Se.....	0.003
Ca.....	0.002	Cu.....	0.0005
PO ₄	0.0005	Fe.....	0.0005
As.....	0.00002	Insol.....	0.005
K.....	0.005		

Chemical and physical parameters conform to FCC

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

57 Ammonium Sulphate

UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

Sulph. ash.....	0.1	Fe.....	0.001
Cl.....	0.01	H.M. (as Pb).....	0.001

Pack Size: 500g, 5kg, 25kg

Ammonium Sulphocyanide (See Ammonium Thiocyanate Page 61)

Ammonium (+) Tartrate

CAS 3164-29-2
(CHOHCOONH₄)₂ = 184.15

855 Ammonium (+) Tartrate UNIVAR

Description: colourless crystals or crystalline powder.
Assay.....99% min.
pH (5% soln.).....6.0-7.0

Maximum limit of impurities(%)

Heavy metals(as Pb).....	0.002	SO ₄	0.01
Cl.....	0.002	Fe.....	0.002

Pack Size: 500g

Ammonium Thiocyanate

CAS 1762-95-4
Synonyms:Ammonium Sulphocyanide
NH₄SCN = 76.12

58 Ammonium Thiocyanate UNIVAR

Description: colourless or white deliquescent crystals.
Assay.....98.0% min.
pH (5% soln. @ 25°C).....4.5-6.0

Maximum limit of impurities(%)

Insol.....	0.005	SO ₄	0.005
R.A.I.....	0.1	Fe.....	0.0003
Iodine consuming subs. (as I).....	0.004 meq/g	H.M. (as Pb).....	0.0005
Cl.....	0.005		

Pack Size: 500g, 5kg

59 Ammonium Thiocyanate UNILAB

Maximum limit of impurities(%)
Sulph. ash..... 0.2
Cl..... 0.01

Pack Size: 500g

1398 Ammonium Thiocyanate 0.1mol Concentrate, Ampoule OP

Description: plastic ampoule containing clear colourless liquid
0.1 mole (7.612g NH₄SCN) to prepare 1L of 0.1N solution
Titer.....0.998 – 1.002

Pack size: Ampoule

Ammonium Thiosulphate

CAS 7783-18-8
(NH₄)₂S₂O₃ =148.20

1691 Ammonium Thiosulphate UNILAB

Assay (Iodometric).....99% min.
M.P.....105°C

Pack Size: 500g

iso-Amyl Acetate

CAS 123-92-2
 $\text{CH}_3\text{COOC}_5\text{H}_{11} = 130.19$

61 iso-Amyl Acetate UNIVAR

Description: clear liquid with a strong, characteristic odour.
Assay.....98.0% min.

Maximum limit of impurities (%)		
Non-vol.....	0.002	
Acidity (as CH_3COOH).....	0.01	H_2O 0.2

Pack Size: 500mL, 2.5L, 20L

iso-amyl-Alcohol

CAS 123-51-3
 $\text{C}_5\text{H}_{11}\text{OH} = 88.15$

U.N Number.....1105
ADG Class.....3
Packing Group.....III



64 iso-amyl-Alcohol UNIVAR

Description: clear liquid with a strong characteristic odour
Assay (GLC).....98.5% min.
Density about.....0.812g/L
R.I.about 1.408

Maximum limit of impurities(%)		
R.A.E.....	0.003	
Titrate acid.....	0.2 mmol H	Carbonyl (as HCHO)..... 0.1
Acids & esters (as amyl acetate).....	0.2	Water..... 0.05

Conforms to ACS

Pack size: 500mL, 2.5L, 20L

N-Amyl Alcohol (See Pentan-1-Ol Page 322)

Tert-Amyl Alcohol (See 2-Methylbutan-2-Ol Page 288)

Amylcarbinol (See Hexan-1-Ol Page 225)

Amylene Hydrate (See 2-Methylbutan-2-Ol Page 288)

trans-Anethole

CAS 4180-23-8
Synonyms: 4-propenylanisole
 $\text{C}_{10}\text{H}_{12}\text{O} = 148.20$

541 trans-Anethole For Synthesis UNIVAR

Assay (GC).....99% min.
Density @ 20°C.....0.987 -0.989

Pack Size: 500mL

Aniline

CAS 62-53-3

Synonyms: Aminobenzene

$C_6H_5NH_2 = 93.13$

U.N Number.....1547

ADG Class.....6.1

Packing Group.....II



69

Aniline

UNIVAR

Description: clear, oily liquid with a characteristic odour. It darkens to a reddish- brown colour during storage.

Assay.....99.0% min.

Colour (APHA).....250 max.

Maximum limit of impurities(%)

R.A.I. 0.005

C_6H_5Cl 0.01

$C_6H_5NO_2$ 0.001

Hydrocarbons..... passes test

Conforms to ACS

Pack Size: 500mL, 2.5L

70

Aniline

UNIVAR

Density about.....1.02g/mL

Assay.....98.0% min.

Maximum limit of impurities(%)

R.A.I. 0.02

$C_6H_5NO_2$ 0.02

Pack Size: 500mL, 20L

Aniline Blue

CAS 8004-91-9

Synonym: Solvent Blue 3

$C_{32}H_{28}ClN_3 = 490.5$

3175

Aniline Blue Spirit Soluble for microscopy, C.I. 42775

LABCHEM

Absorption (alcohol).....581nm max.

Pack Size: 25g

Aniline Blue

CAS 28631-66-5

Synonym: Acid blue 22

$C_{32}H_{25}N_3Na_2O_9S_3 = 737.73$

3176

Aniline Blue Water Soluble C.I. 42755 (China Blue)

LABCHEM

Used with Fuchsin acid as Mallory's connective tissue

Stain visualizes chromosomes and cellulose walls in plants.

Absorption (1M alcohol).....595 – 610nm max.

pH.....9.4 – 14.0

Pack Size: 25g

Aniline Hydrochloride

CAS 142-04-1
 $C_6H_7N \cdot HCl = 129.60$

U.N Number.....1548
ADG Class.....6.1
Packing Group.....III



657 Aniline Hydrochloride For Synthesis

UNILAB

Assay.....99% min.
M.P.197 -202°C

Pack Size: 250g

Aniline Sulphate

CAS 542-16-5
 $C_{12}H_{14}N_2 \cdot H_2SO_4 = 284.33$

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



132 Aniline Sulphate

UNILAB

Assay.....98% min.
Sulphated ash.....0.1%

Pack Size: 250g

p-Anisaldehyde

CAS 123-11-5
Synonyms: 4-methoxybenzaldehyde
 $C_8H_8O_2 = 136.15$

604 p-Anisaldehyde

UNILAB

Assay.....98% min.

Pack Size: 250mL

p-Anisic Acid

CAS 100-09-4
Synonyms: 4-Methoxybenzoic acid
 $C_8H_8O_3 = 152.15$

71 p-Anisic Acid For Synthesis

UNILAB

Assay.....98% min.
M.P.182 -185°C

Pack Size: 100g

p-Anisidine

CAS 104-94-9

Synonyms: 4-Methoxyaniline; 4-Methoxybenzeneamine
C₇H₉NO = 123.15

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III

**1308 p-Anisidine**

UNILAB

Assay.....98% min.

M.P.56 – 59°C

Pack Size: 250g

m-Anisidine

CAS 536-90-3

Synonyms: 3-Methoxyaniline
C₇H₉NO = 123.15

U.N Number.....2431

ADG Class.....6.1

Packing Group.....III

**223 m-Anisidine For Synthesis**

UNILAB

Assay.....98% min.

Density @ 20°C.....1.101 -1.103

Pack Size: 100mL

o-Anisidine

CAS 90-04-0

Synonyms: 2-Methoxyaniline
C₇H₉NO = 123.15

U.N Number.....2431

ADG Class.....6.1

Packing Group.....III

**539 o-Anisidine For Synthesis**

UNILAB

Assay.....98% min.

Density @ 20°C.....1.091 -1.093

Pack Size: 500mL

Anisole

CAS 100-66-3

C₇H₈O = 108.1

U.N Number.....2222

ADG Class.....3

Packing Group.....III

**4039 Anisole**

OP

Appearance: clear colourless liquid

Assay.....98.5% min.

Refractive index (@20°C).....1.5160 – 1.5190

Specific gravity (@25°C).....0.991 – 0.995

Maximum limit of impurities(%)

Water.....0.1

Pack size: 1L

Anthracene

CAS 120-12-7
 $C_{14}H_{10} = 178.2$

72 Anthracene

UNILAB

Description: White to light yellow crystalline powder
Assay.....99.0% min.
Melting Point.....214 - 216°C

Pack size: 100g

Anthraquinone

CAS 84-65-1
 $C_{14}H_8O_2 = 208.22$

1778 Anthraquinone

UNILAB

Description: Yellow fine crystalline powder
Assay.....99.0% min.
Melting Point.....253 - 287°C

Pack size: 100g

Anthraquinone-2-Sulphonic Acid Sodium Salt (1hydrate)(Siver Salt)

CAS 131-08-8
 $C_{14}H_7NaO_5S.H_2O = 328.28$

291 Anthraquinone-2-Sulphonic Acid Sodium Salt (1hydrate)(Siver Salt) (an electron acceptor in biological redox system)

UNVAR

Assay (by chelatometry on.....98% min.
anhydrous substance)

Maximum limit of impurities(%)

SO₄..... 0.005
Fe..... 0.001

H₂O..... 5.2 – 5.8
Sulphated ash..... 21.0 – 22.2

Pack Size: 25g

Anthrone

CAS 90-44-8
 $C_{14}H_{10}O = 194.23$

1309 Anthrone

OP

Reagent for carbohydrates.
M.P.152 - 157°C

Pack Size: 25g

Anti-Bumping Granules

CAS 1344-28-1

1677 Anti-Bumping Granules

LABCHEM

Granules of fused alumina.

Pack Size: 250g, 5kg

Antifoam

1402 Antifoam, Silicone Liquid

TECHNICAL

10% active emulsion of silicone in water. Dilutes easily with water. Recommended usage level: 100 parts of Cat.1402 per million parts of foamer.

Pack Size: 100mL, 500mL

Antimony Chloride (See Antimony Trichloride Page 68)

Antimony (Metal) Lumps 99.5%

CAS 7440-36-0
Sb =121.75

U.N Number.....2871
ADG Class.....6.1
Packing Group.....III



142 Antimony (Metal) Lumps 99.5%

UNVAR

Assay.....99.5%
min.

Maximum limit of impurities(%)

Pb. 0.05
Fe. 0.01

Cu. 0.005

Pack Size: 500g

Antimony Potassium Tartrate

CAS 28300-74-5
KSbO₃.C₄H₄O₆ =324.93

U.N Number.....1551
ADG Class.....6.1
Packing Group.....III



73 Antimony Potassium Tartrate

UNVAR

Assay.....99.5% min.

pH (5% solution).....4.0 – 4.2

Maximum limit of impurities(%)

Water-insoluble matter 0.005
AS. 0.0006
Ca. 0.005

Cu. 0.001
Fe. 0.002
Pb. 0.002

Pack Size: 500g

74 **Antimony Potassium (+) Tartrate** UNILAB

CAS 28300-74-5
 $\text{KSbOC}_4\text{H}_4\text{O}_6 \cdot \frac{1}{2} \text{H}_2\text{O} = 333.93$
 Assay.....98.5% min.
 L.O.D. (@105°C).....2.7% max.

Pack Size: 500g, 5kg

75 **Antimony Potassium Tartrate** TECHNICAL

Description: white fine crystalline powder.

Pack Size: 500g

Antimony Trichloride

CAS 10025-91-9
 $\text{SbCl}_3 = 228.11$

U.N Number.....1733
 ADG Class.....8
 Packing Group.....III



76 **Antimony Trichloride** UNVAR

Description: colourless crystals, fuming on contact with moisture in the air.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol. (in CHCl_3).....	0.05		
SO_4	0.005	Pb.....	0.005
As.....	0.02	Ca.....	0.005
Cu.....	0.001	K.....	0.01
Fe.....	0.002	Na.....	0.02

Conforms to ACS

Pack Size: 100g, 500g

Antimony Trioxide

CAS 1309-64-4
 $\text{Sb}_2\text{O}_3 = 291.50$

U.N Number.....1549
 ADG Class.....6.1
 Packing Group.....III



134 **Antimony Trioxide** UNVAR

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.005		
Pb.....	0.05	SO_4	0.02
Fe.....	0.003	K.....	0.002
As.....	0.005	Na.....	0.002

Pack Size: 500g

77 **Antimony Trioxide** LABCHEM

Assay.....99.0% min.

Pack Size: 500g, 5kg

Antipyrine

CAS 60-80-0

Synonyms: Phenazone; 2,3-Dimethyl-1-phenyl-3-pyrazolin-5-one

 $C_{11}H_{12}N_2O = 188.23$

1556 Antipyrine

UNILAB

Assay.....99% min.

M.P.109 – 111°C

Pack Size: 100g

Aquamount

1865 Aquamount

LABCHEM

Water-based mountant

Pack Size: 100mL

D(-)-Arabinose

CAS 10323-20-3

 $C_5H_{10}O_5 = 150.1$

3418 D(-)-Arabinose

LABCHEM

Description: white crystalline powder

Pack size: 25g

L(+)-Arabinose

CAS 5328-37-0

 $C_5H_{10}O_5 = 150.1$

3011 L(+)-Arabinose

UNIVAR

Description: white crystalline powder

Assay.....99.0% min.

Melting Point.....156 - 160° C

Opt. Rotation (on dry basis).....+104 ± 1°

Maximum limit of impurities(%)

H₂O..... 0.05

Sulphated ash..... 0.1

Pack size: 25g

Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis.

They exceed ACS specifications and are ideal for use as reference standards.

Discover More: www.ajaxfinechem.com/Unipure

L-Arginine

CAS 74-79-6
 $C_6H_{14}N_4O_2 = 174.2$

6340 L-Arginine

UNIVAR

Description: white crystalline powder

Assay.....98.0% min.

Melting Point.....235°C

Maximum limit of impurities(%)

Ca.....0.001

Fe.....0.0005

Heavy metals (as Pb).....0.0005

As.....0.0003

Cl.....0.005

SO₄.....0.005

Pack size: 100g

L-Arginine Monohydrochloride

CAS 1119-34-2
 $C_6H_{15}N_4O_2Cl=210.67$

1311 L-Arginine Monohydrochloride

LABCHEM

Appearance: White crystal powder.

Assay.....98.5 - 101.0%

Specific Rotation.....+21.4 to +23.6°

Maximum limit of impurities(%)

L.O.D.....0.2

R.O.I.....0.1

H.M.(as Pb).....0.001

Pack Size: 25g

Arsenazo I

CAS 520-10-5
Synonyms: Neothorone
 $C_{16}H_{10}AsN_2Na_3O_{11}S_2 = 614.28$

U.N Number.....3456

ADG Class.....6.1

Packing Group.....III



209 Arsenazo I Reagent for Thorium

UNILAB

Pack Size: 5g

Arsenazo III

CAS 1668-00-4
 $C_{22}H_{18}As_2N_4O_{14}S_2 = 776.37$

U.N Number.....3456

ADG Class.....6.1

Packing Group.....II



198 Arsenazo III Reagent for Thorium, Uranium & Zirconium

UNILAB

Sensitivity to Thorium.....1.5

Pack Size: 5g

Arsenic 1000ppm Single Element ICP standard

U.N Number.....3287
 ADG Class.....6.1
 Packing Group.....II



2624 Arsenic 1000ppm Single Element ICP standard UNIPURE

A 1000 ppm Arsenic standard, ready for use.
 As in 0.5% Hydrochloric acid.

Pack Size: 100mL

Arsenic AAS Standard

U.N Number.....3287
 ADG Class.....6.1
 Packing Group.....II



2606 Arsenic AAS Standard SPECTROSOL

A 1000 ppm Arsenic standard, ready for use.
 Each mL contains 1.00+/-0.005mg of As in 1.4% Hydrochloric acid, 32%.

Pack Size: 500mL

Arsenic (III) Oxide

CAS 1327-53-3
 As₂O₃ = 197.84

U.N Number.....1561
 ADG Class.....6.1
 Packing Group.....II



1800 Arsenic (III) Oxide, Certified Reference Standard UNIPURE

Assay (Redox) (dried at 105°C).....99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in HCl.....	0.01	Fe.....	0.0005
Residue on Ignition.....	0.02	K.....	0.005
Cl.....	0.002	Mg.....	0.005
S.....	0.001	Mn.....	0.001
H.M. (as Pb).....	0.001	Na.....	0.005
Ca.....	0.005	Ni.....	0.001
Cd.....	0.001	Pb.....	0.001
Co.....	0.001	Sn.....	0.05
Cr.....	0.001	Zn.....	0.001
Cu.....	0.001		

Pack Size: 100g

Arsenic Trioxide

CAS 1327-53-3

Synonyms: Arsenous Oxide, Arsenous Anhydride

As₂O₃ = 197.84

U.N Number.....1561

ADG Class.....6.1

Packing Group.....II



78

Arsenic Trioxide

UNIVAR

Description: white powder.

Assay.....99.5% min.

Maximum limit of impurities(%)

Insol. (in dil. HCl)..... 0.01

R.A.I..... 0.05

Cl..... 0.005

S..... 0.001

Fe..... 0.0005

Pb..... 0.002

Sb..... 0.05

Pack Size: 100g, 500g

915

Arsenic Trioxide

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

S..... 0.01

Pack Size: 500G

Arsenous Anhydride (See Arsenic Trioxide Page 72)

Arsenous Oxide (See Arsenic Trioxide Page 72)

L-Ascorbic Acid

CAS 50-81-7

C₆H₈O₆ = 176.13

104

L-Ascorbic Acid

UNIVAR

Description: colourless crystals or a white to very pale yellow, crystalline powder; odourless. It melts at about 190°C with decomposition.

Assay.....99.0 - 100.5%

PH (5% soln.).....2.1-2.6

Spec. Rotn.+20.5 to +21.5°(10% w/v soln.)

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test

Sulph. ash..... 0.1

H.M. (as Pb)..... 0.0003

Oxalic Acid..... 0.2

Cl..... 0.005

Cu..... 0.0005

Fe..... 0.0002

Ni..... 0.001

Pb..... 0.0002

SO₄..... 0.002

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

79

L-Asparagine

UNILAB

Description: colourless crystals or a white to very pale yellow, crystalline powder; odourless. It melts at about 190°C with decomposition.

Assay.....99.0 - 100.5%
 PH (5% soln.).....2.1-2.6
 Spec. Rotn.+20.5 to +21.5°(10% w/v soln.)

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test
 Sulph. ash.....0.1
 H.M. (as Pb).....0.0002

Oxalic Acid.....0.2
 Copper (Cu).....0.0005
 Iron (Fe).....0.0002

Pack Size: 100g, 500g, 5kg, 25kg

L-Asparagine

CAS 5794-13-8

$\text{NH}_2\text{COCH}_2\text{CH}(\text{NH}_2)\text{COOH}\cdot\text{H}_2\text{O} = 150.13$

1312

L-Asparagine

UNILAB

Assay.....98% min.
 Spec. rotn.(c=10) +33 to +36.5°

Maximum limit of impurities(%)

R.O.I.0.1
 Sulph. Ash.....0.1
 Fe.....0.002
 H.M.(as Pb).....0.001

As.....0.0003
 SO_40.025
 L.O.D.....12.5

Pack Size: 25g

DL-Asparagine Monohydrate

CAS 3130-87-8

$\text{C}_4\text{H}_8\text{N}_2\text{O}_3 = 150.1$

1475

DL-Asparagine Monohydrate

UNILAB

Description: white crystalline powder

Assay.....98.0% min.
 Melting Point.....220° C

Maximum limit of impurities(%)

R.O.I.0.1

Pack size: 25g

DL-Aspartic Acid

CAS 617-45-8

$\text{C}_4\text{H}_7\text{NO}_4 = 133.1$

1313

DL-Aspartic Acid

UNILAB

Description: white crystalline powder

Assay.....98.0% min.
 Melting Point.....about 280° C

Maximum limit of impurities(%)

Ash.....0.05

Pack size: 100g

L-Aspartic Acid

CAS 56-84-8
C₄H₇O₄ = 133.10

1320

L-Aspartic Acid For Biochemistry 99+% (Used as a substrate in determination of L-Aspartate decarboxylase)

LABCHEM

Assay.....99% min.
M.P.265 – 271°C

Pack Size: 25g, 100g

Aspirin (See Acetylsalicylic Acid Page 29)

Atomic Sulphur (See Sulphur Powder Atomic Page 438)

Atropine Sulphate

CAS 5908-99-6
C₃₄H₄₈N₂O₁₀·S·H₂O =694.85

U.N Number.....1544
ADG Class.....6.1
Packing Group.....II



544

Atropine Sulphate

UNILAB

M.P.189 – 192°C

Maximum limit of impurities(%)
R.O.I. 0.05

Pack Size: 5g

Auramin

CAS 2465-27-2
Synonyms: Auramin (O); Basic yellow; C.I. 41000
C₁₇H₂₂N₃Cl =303.84

U.N Number.....3077
ADG Class.....9
Packing Group.....III



3177

Auramin For Microscopy

UNILAB

Absorption.....431 – 433nm max.
Absorptivity.....(A 1% 1cm I=432nm,880 940 pH 6.0 on dried substance)
Suitability for microscopy Passes test
(Biological stain, forms a highly Fluorescent Complex with horse liver alcohol dehydrogenase)

Maximum limit of impurities(%)
L.O.D. (@ 105°C)......2

Pack Size: 25g

Aurinetricarboxylic Acid Ammonium Salt (See Aluminon Page 42)

Azimidobenzene (See IH-Benzotriazole Page 85)

Auramin (O) (See Auramin Page 74)

Azur II

CAS 37247-10-2
 $C_{31}H_{34}Cl_2N_6S_2 = 625.68$

3179 Azur II For Microscopy C.I. 52010 LABCHEM

Pack Size: 10g

Barbitone Sodium

CAS 144-02-5
 $C_8H_{11}N_2O_3Na = 206.18$

899 Barbitone Sodium LABCHEM

Biological Buffer
 Assay.....98.5% min.

Pack Size: 250g, 1kg

Barbituric Acid

CAS 67-52-7
 $C_4H_4O_3N_2 = 128.09$

1321 Barbituric Acid LABCHEM

Assay.....99% min.

Pack Size: 100g

Barium 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2654 Barium 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Barium standard, ready for use.
 Ba in 0.5% Hydrochloric acid.

Pack Size: 100mL

Barium AAS Standard

CAS 10361-37-2

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2607 Barium AAS Standard SPECTROSOL

A 1000 ppm Barium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ba in 0.5% Hydrochloric acid.

Traceable to NIST

Pack Size: 500mL

Barium Acetate

CAS 543-80-6
(CH₃COO)₂Ba = 255.42

U.N Number.....1564
ADG Class.....6.1
Packing Group.....III



80

Barium Acetate

UNIVAR

Description: white crystals or crystalline powder.
Assay.....99.0-102.0%

Maximum limit of impurities(%)

Insol.....	0.01	H.M. (as Pb).....	0.0005
Cl.....	0.001	Sr.....	0.2
Oxidising subs. (as NO ₃).....	0.005	Na.....	0.005
Ca.....	0.05	K.....	0.003
Fe.....	0.001	Mg.....	0.005

Conforms to ACS

Pack Size: 500g

Barium Bromide

CAS 7791-28-8
BaBr₂·2H₂O = 333.17

U.N Number.....1564
ADG Class.....6.1
Packing Group.....III



129

Barium Bromide

UNILAB

Assay.....98% min.
pH of 10% solution.....5 - 7

Maximum limit of impurities(%)

Fe.....	0.002
Pb.....	0.002

Pack Size: 500g

Barium Carbonate

CAS 513-77-9
BaCO₃ = 197.34

U.N Number.....1564
ADG Class.....6.1
Packing Group.....III



920

Barium Carbonate

UNIVAR

Description: white powder.
Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol. (in dil. HCl).....	0.015	Ca.....	0.05
Water sol. titratable bases.....	0.2 mmol OH	Fe.....	0.002
Cl.....	0.002	H.M. (as Pb).....	0.001
Oxidising subs. (as NO ₃).....	0.005	Sr.....	0.7
S.....	0.001	Na.....	0.02

Conforms to ACS

Pack Size: 500g

Barium Chloranilate

CAS 32458-20-1
 $C_6BaCl_2O_4 \cdot 3H_2O = 398.34$

U.N Number.....1564
 ADG Class.....6.1
 Packing Group.....III



329

Barium Chloranilate (chloranilic acid barium salt)

UNILAB

Reagent for colorimetric determination
 of sulphate
 Assay (by complexometry on.....98.5% min.
 anhydrous substances)
 Suitability for determination of.....Passes test
 sulphate

Maximum limit of impurities(%)
 H_2O12 -14%

Pack Size: 25g

Barium Chloride

CAS 10361-37-2
 $BaCl_2 \cdot 2H_2O = 244.27$

U.N Number.....1564
 ADG Class.....6.1
 Packing Group.....III



81

Barium Chloride

UNIVAR

Description: colourless crystals or crystalline powder.
 Assay.....99.0% min.
 pH (5% soln. @).....5.2 – 8.2
 L.O.D. (@150°C).....14.0-16.0%

Maximum limit of impurities(%)
 Insol. 0.005
 Oxidising subs. (as NO_3)..... 0.005
 Ca. 0.005
 Na. 0.005
 Fe..... 0.0001

H.M. (as Pb)..... 0.0005
 Sr..... 0.01
 Mg..... 0.001
 K..... 0.0025

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

82

Barium Chloride

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)
 Oxidising subs. (as NO_3)..... 0.05
 Ca. 0.2
 Fe..... 0.001

H.M. (as Pb)..... 0.001
 Sr..... 0.3

Pack Size: 500g, 5kg

906 Barium Chloride LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

Ca.	0.05	
Fe.....	0.002	H.M. (as Pb)..... 0.002

Pack Size: 500g

1317 Barium Chloride TECHNICAL

Pack Size: 3kg

Barium Chromate

CAS 10294-40-3	U.N Number.....1479
BaCrO ₂ =253.32	ADG Class.....5.1
	Packing Group.....II



1529 Barium Chromate LABCHEM

Density @ 25°C (g/ml)..... 4.5

M.P.....210°C

Pack Size: 500g

Barium Diphenylamine-4-Sulphonate

CAS 6211-24-1	U.N Number.....1564
(C ₁₂ H ₁₀ NO ₃ S) ₂ Ba = 633.87	ADG Class.....6.1
	Packing Group.....III



964 Barium Diphenylamine-4-Sulphonate LABCHEM

Redox indicator.

Transition EMF (@ pH=0).....+ 0.84 V

Colour change:

Oxidized (red-violet) to reduced (colourless)

See also "indicators-redox".

Pack Size: 5g

Barium Hydroxide

CAS 12230-71-6	U.N Number.....1564
Ba(OH) ₂ .8H ₂ O= 315.48	ADG Class.....6.1
	Packing Group.....III



83 Barium Hydroxide (Octahydrate) UNIVAR

Assay (BaOH)₂.8H₂O).....98.0% min.

Maximum limit of impurities(%)

Carbonate (as BaCO ₃).....	2.0	Fe.....	0.0005
Substances insoluble in dilute HCl.....	0.005	Ca.....	0.002
Cl.....	0.001	Sr.....	0.5
S.....	0.0005	Substances not ppt by dilute.....	0.2
H.M. (as Pb).....	0.0005	H ₂ SO ₄ (as SO ₄).....	

Pack Size: 500g

921 Barium Hydroxide UNILAB

Assay.....	98% min.	
Maximum limit of impurities(%)		
BaCO ₃	4.0	
Cl.....	0.01	H.M. (as Pb)..... 0.005
Fe.....	0.005	Subs. not ppt. by H ₂ SO ₄ 0.5

Pack Size: 500g, 25kg

Barium Nitrate

CAS 10022-31-8
Ba(NO₃)₂ = 261.34

U.N Number.....1446
ADG Class.....5.1
SUB.....6.1
Packing Group.....II



85 Barium Nitrate UNIVAR

Description: colourless crystals.

Assay.....	99.0% min.	
pH (5% soln. @ 25°C).....	5.0-8.0	
Maximum limit of impurities(%)		
Insol.....	0.01	H.M. (as Pb)..... 0.0005
Cl.....	0.0005	Sr..... 0.1
Ca.....	0.05	Na..... 0.005
Fe.....	0.0002	K..... 0.005

Pack Size: 500g, 5kg

86 Barium Nitrate UNILAB

Assay.....	99.0% min.
Maximum limit of impurities(%)	
Cl.....	0.01
Fe.....	0.002
H.M. (as Pb).....	0.002

Pack Size: 500g

Barium Sulphate

CAS 7727-43-7
BaSO₄ = 233.40

264 Barium Sulphate, For Soil Analysis LABCHEM

High purity grade for soil analysis, and X-Ray examinations. A fine, heavy, white powder, free from grittiness; odourless.

Maximum limit of impurities(%)		
L.O.I. (600°C).....	2.0	
Soluble Ba salts.....	passes test	H.M. (as Pb)..... 0.001
Acidity/Alkalinity.....	passes test	Phosphate..... 0.005
Oxidisable sulphur compounds.....	passes test	Acid-soluble substances..... 0.3
As.....	0.0002	Sedimentation..... passes test

Chemical and Physical parameters conform to BP

Pack Size: 500g

Basic Red 5 (See Neutral Red (CI 50040) Page 303)

Basic Violet 3 (See Crystal Violet (CI42555) Page 160)

Basic Yellow 2 (See Auramin Page 74)

Beeswax

CAS 8012-89-3

6091 **Beeswax, White, Bleached** *Technical*

Chemical and physical parameters conform to BP

Pack Size: 500g

Benedicts Solution

735 **Benedicts Solution** *LABCHEM*

For detection of sugar in urine.

Pack Size: 500mL, 2.5L

Bentonite (See Fullers Earth For Absorption Page 210)

Benzaldehyde

CAS 100-52-7

Synonyms: Benzoic Aldehyde

$C_6H_5CHO = 106.12$

U.N Number.....1990

ADG Class.....9

Packing Group.....III



781 **Benzaldehyde** *UNIVAR*

Description: Clear pale yellow to yellow liquid, with characteristic odour.

Assay.....99% min.

R.I.....1.544-1.546 @ 20°C

Maximum limit of impurities(%)

Acid Value.....7mg KOH/g

Pack Size: 500mL

924 **Benzaldehyde** *UNILAB*

Density about 1.04g/mL

Assay.....98.0% min.

Pack Size: 500mL

Benzamide

CAS 55-21-0
 $C_7H_7NO = 121.1$

2441 Benzamide

LABCHEM

Description: White crystalline powder
 Assay.....98.0% min.
 Melting Point.....125 - 128°C

Pack size: 100g

Benzanilide

CAS 93-98-1
 $C_{13}H_{11}NO = 197.24$

3172 Benzanilide

UNILAB

Description: White to cream-coloured fine powder
 Assay.....99.0% Min.
 M.P.162 - 165°C

Pack Size: 100g

Benzeneacetic Acid (See Phenylacetic Acid Page 330)

Benzenecarboxylic Acid (See Benzoic Acid Page 82)

Benzenecarbonyl Chloride (See Benzoyl Chloride Page 85)

1,4-Benzenediamine (See P-Phenylenediamine Page 332)

Benzenemethanol (See Benzyl Alcohol Page 86)

Benzenesulphonyl Chloride

CAS 98-09-9
 $C_6H_5SO_2Cl = 176.62$

U.N Number.....2225
 ADG Class.....8
 Packing Group.....III



204 Benzenesulphonyl Chloride

UNILAB

Reagent for amines.
 Assay.....98% min.
 Boiling Range.....249-251°C
 R.I.....about 1.552 min.

Pack Size: 500mL

1,3,5-Benzenetriol (See Phloroglucinol Page 334)

Benzil

CAS 134-81-6
 $C_{14}H_{10}O_2 = 210.23$

90 Benzil

UNILAB

Description: Yellow crystalline powder
Assay.....99.0% min.
Melting Point.....93 - 95°C

Pack size: 250g

Benzilic Acid

CAS 76-93-7
 $C_{14}H_{12}O_3 = 228.25$

92 Benzilic Acid

UNILAB

Description: White to cream white powder
Assay.....98.0% min.
Melting Point.....150 - 152°C

Pack size: 250g

Benzimidazole

CAS 51-17-2
 $C_7H_6N_2 = 118.14$

328 Benzimidazole For Synthesis

UNILAB

Assay.....99% min.
M.P.170 - 173°C

Pack Size: 25g, 100g

Benzoic Acid

CAS 65-85-0
Synonyms: Benzenecarboxylic Acid
 $C_7H_6O_2 = 122.12$

1801 Benzoic Acid, Certified Reference Standard

UNIPURE

Assay (Acidim.) (dried on SiO_2).....99.95 - 100.05%
Identity: To pass Test
Melting range.....122 - 123°C

Maximum limit of impurities(%)

Insoluble matter in CH_3OH 0.005
Residue on Ignition. 0.005
Reducing substances to $KMnO_4$ To pass test
Darkened substances by H_2SO_4 To pass test
Chlorine compounds (as Cl). 0.01
Sulphur compounds (as S). 0.01

Heavy metals (as Pb). 0.0005
As. 0.0003
Cu. 0.0005
Fe. 0.0002
Ni. 0.0005
Pb. 0.0005

Pack Size: 100g

926

Benzoic Acid

UNIVAR

Description: colourless, fine, needle-shaped crystals.

Assay.....99.9% min.

M.P.122-123°C

Maximum limit of impurities(%)

Insol. (in CH₃OH)..... 0.005

R.A.I. 0.005

Cl cpds (as Cl)..... 0.005

S cpds (as S)..... 0.002

H.M. (as Pb)..... 0.0005

Subs. reducing KMnO₄..... To pass test**Pack Size:** 100g, 500g

823

Benzoic Acid

UNILAB

Description: colourless, light, feathery crystals or white powder; odour slight and characteristic.

Assay.....99.0 - 100.5%

M.P.121-123°C

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test

Carbonisable substances.....To pass test

Halogenated cpds & halides..... 0.03

Sulph. ash..... 0.05

H.M. (as Pb)..... 0.0010

Oxidizable substances..... To pass test

As..... 0.0003

Water..... 0.7

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg**Benzoic Acid Ethyl Ester** (See Ethyl Benzoate Page 197)**Benzoic Acid Methyl Ester** (See Methyl Benzoate Page 287)**Benzoic Acid Sodium Salt** (See Sodium Benzoate Page 393)**Benzoic Aldehyde** (See Benzaldehyde Page 80)**Benzoin**

CAS 76-93-7

C₁₄H₁₂O₂ = 212.3

93

Benzoin

LABCHEM

Description: Buff to light brownish yellow powder

Maximum limit of impurities(%)

Sulphated ash..... 0.2

Pack size: 100g

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.

Discover more: www.ajaxfinechem.com/Labchem

α -Benzoin Oxime

CAS 441-38-3

Synonym: Cuprone

$C_{14}H_{13}NO_2 = 227.27$

94 α -Benzoin Oxime (Precipitation reagent for copper, molybdenum and tungsten)

UNILAB

M.P.151 – 155°C
Solubility and sensitivity to Cu, Mo To Pass test

Pack Size: 25g

Benzonitrile

CAS 100-47-0

Synonyms: Phenyl cyanide

$C_7H_5N = 103.12$

U.N Number.....2224

ADG Class.....6.1

Packing Group.....II



3280 Benzonitrile For Synthesis

UNILAB

Assay.....99% min.
Density 20°C.....1.004 -1.005
R.I.1.5275 – 1.5295
Soluble in water.....To pass test

Pack Size: 500mL

Benzophenone

CAS 119-61-9

$C_6H_5COC_6H_5 = 182.22$

928 Benzophenone

UNILAB

M.P.47-49°C
Assay (GC).....99% min.

Pack Size: 100g

p-Benzoquinone

CAS 106-51-4

$O=C_6H_4=O = 108.10$

U.N Number.....2587

ADG Class.....6.1

Packing Group.....II



929 p-Benzoquinone

TECHNICAL

M.P.....about 115°C
assay (GC).....99% min.

Pack Size: 100g

Benzosulphochloride (See Benzenesulphonyl Chloride Page 81)

IH-Benzotriazole

CAS 95-14-7
 $C_6H_5N_3 = 119.13$

3016 IH-Benzotriazole

LABCHEM

Assay (ex N).....about 99% min.
 M.P.93-95°C

Pack Size: 250g, 500g

Benzotrichloride

CAS 98-07-7
 Synonyms: Trichloromethyl benzene
 $C_7H_5Cl_3 = 195.48$ g/mol

U.N Number.....2226
 ADG Class.....8
 Packing Group.....II



522 Benzotrichloride For Synthesis

LABCHEM

Assay.....99% min.
 Density @ 20°C.....1.372 – 1.375

Pack Size: 500mL

1-Benzoyl Acetone

CAS 93-91-4
 $C_{10}H_{10}O_2 = 162.19$

2124 1-Benzoyl Acetone

LABCHEM

Description: Pale yellow shining crystalline powder
 Assay.....98.0% min.

Pack size: 100g

Benzoyl Chloride

CAS 98-88-4
 $C_6H_5COCl = 140.57$

U.N Number.....1736
 ADG Class.....8
 Packing Group.....II



930 Benzoyl Chloride

UNILAB

Density.....about 1.21g/mL
 Assay.....98% min.

Pack Size: 500mL

a-N-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE)

CAS 2645-08-1
C₁₅H₂₃ClN₄O₃ = 342.83

237 a-N-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE)(for the estimation of trypsin, papain and bromelain) LABCHEM

Assay.....99% min.

Pack Size: 1g

6-Benzyl Adenine

CAS 1214-39-7
Synonyms: 6-Benzyl aminopurine
C₁₂H₁₁N₅ = 225.25

241 6-Benzyl Adenine UNILAB

Assay.....99% min.
M.P.230 – 233°C

Pack Size: 5g

Benzyl Alcohol

CAS 100-51-6
C₆H₅CH₂OH = 108.14

97 Benzyl Alcohol UNILAB

Description: clear, colourless, refringent, oily liquid; odour, slightly aromatic.

Assay.....98.0 - 100.5%
Density (@ 20°C).....1.043 – 1.049g/mL
R.I.1.538 – 1.541

Maximum limit of impurities(%)

Acidity.To pass test
Benzaldehyde & related subs. 0.2
Clarity of solution. To pass test

Peroxide value. 5
N.V.M. 0.05

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L

6-Benzyl Aminopurine (See 6-Benzyl Adenine Page 86)

Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

Benzyl Benzoate

CAS 120-51-4
 $C_6H_5COOCH_2C_6H_5 = 212.25$

933

Benzyl Benzoate

UNILAB

Assay.....98% min.
 Density @ 20°C.....1.115 – 1.119g
 F.P.> 17°C
 R.I.1.569 – 1.570

Maximum limit of impurities(%)
 Acidity.....<0.5 ml

Pack Size: 500mL

1972

Benzyl Benzoate

UNILAB

Description: colourless to oily liquid
 Assay.....99.0% min.

Maximum limit of impurities(%)
 Sulphated ash. 0.05
 Free acid (as Benzoic acid)..... 0.05

Pack size: 500mL

Benzyl Chloride

CAS 100-44-7
 $C_6H_5CH_2Cl = 126.59$

U.N Number.....1738
 ADG Class.....6.1
 Packing Group.....II



858

Benzyl Chloride

UNILAB

Assay (GC).....98.5% min.
 Density @ 20°C.....1.097 – 1.101

Maximum limit of impurities(%)
 Acidity..... 0.2mL N
 N.V..... 0.05

Pack Size: 500mL, 2.5L GL

Benzyl Cyanide

CAS 140-29-4
 Synonyms: Phenylacetonitrile; a-Tolunitrile
 $C_6H_5CH_2CN = 117.15$

U.N Number.....3276
 ADG Class.....6.1
 Packing Group.....II



3019

Benzyl Cyanide For Synthesis

LABCHEM

Assay.....>99% min.
 Density @ 20°C.....1.015 – 1.017
 R.I. @ 20°C.....1.5225 – 1.5235
 Immiscible with water.....To pass test

Pack Size: 500mL

Bicine

CAS 150-25-4
 $C_6H_{13}NO_4 = 163.2$

3417 Bicine, Biological Buffer

UNIVAR

Description: White powder
Solubility (0.1M in H₂O): Clear and complete
 Assay.....99.0% min.
 pKa.....8.1 – 8.5
 pH.....4.0 -6.0

Maximum limit of impurities(%)
 Moisture..... 1.0

Pack size: 100g, 1KG

Biebrich Scarlet

CAS 4196-99-0
 $C_{22}H_{14}N_4O_7S_2Na_2 = 556.5$

3180 Biebrich Scarlet (C.I. 26905)

LABCHEM

Description: Brown coloured powder
 Dye content about 66.0%

Pack size: 25g

D-Biotin

CAS 58-85-5
 $C_{10}H_{16}N_2O_3S = 244.31$

224 D-Biotin For Biochemistry (Vitamin H)

LABCHEM

Assay.....98% min.

Maximum limit of impurities(%)
 H.M. (as Pb)..... 0.001

Pack Size: 1g

Biphenyl

CAS 92-52-4
 $C_{12}H_{10} = 154.2$

U.N Number.....3077
 ADG Class.....9
 Packing Group.....III



1040 Biphenyl

UNILAB

Description: Colourless to white leaflets
 Assay.....98.0% min.
 Melting Point.....68 - 70°C

Pack size: 250G

2,2-Bipyridine (See 2-2-Bipyridyl Page 90)

2,2-Bipyridyl

CAS 366-18-7
(C₅H₄N)₂ = 156.19

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



207 2,2-Bipyridyl

LABCHEM

Reagent for Fe and Mo.

Redox indicator.

Description: off-white crystalline powder.

M.P.69 - 71°C

Sensitivity to Fe.....1 in 10,000,000 min.

Transission to EMF (@ pH=0).....+ 1.03V

Colour change: (Iron (II) complex)

Oxidized (pale blue) to reduced (red)

See also "indicators - redox"

Pack Size: 5g

2,2'-Biquinoline

CAS 119-91-5

Synonyms: 2,2'-Diquinolyl

C₁₈H₁₂N₂ =256.31

232 2,2'-Biquinoline

LABCHEM

Assay.....99% min.

Sensitivity to Cu.....1:1000000

Maximum limit of impurities(%)

Sulphated Ash..... 0.05

Cu..... 0.0002

Pack Size: 1g

Bismark Brown R

CAS 5421-66-9

C₂₁H₂₄N₈.2HCl = 386

3181 Bismark Brown R

LABCHEM

Description: Dark brown solid

Dye content 40.0% min.

Pack size: 25g

Bismuth 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2655 Bismuth 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Bismuth standard, ready for use.
 Bi in 0.5% Nitric acid.

Pack Size: 100mL

Bismuth AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2609 Bismuth AAS Standard

SPECTROSOL

A 1000 ppm Bismuth standard, ready for use. Each mL contains 1.00 +/-0.005mg of Bi in 0.5% Nitric acid.

Traceable to NIST

Pack Size: 500mL

Bismuth Carbonate

CAS 5892-10-4
 (BiO)₂CO₃ = 509.97

938 Bismuth Carbonate (Basic)

UNIVAR

Assay (Bi).....80 – 82%

Maximum limit of impurities(%)

Cl.....	0.005	Fe.....	0.005
Cd.....	0.005	Pb.....	0.005
Cu.....	0.005	Zn.....	0.005

Pack Size: 100g

Bismuth (III) Chloride

CAS 7787-60-2
 BiCl₃ = 315.34

3021 Bismuth (III) Chloride

UNILAB

Description: yellowish deliquescent crystals

Assay.....98.0% min.

Melting Point.....230 - 232°C

Maximum limit of impurities(%)

Fe.....	0.01	Zn.....	0.005
Pb.....	0.005	Moisture.....	1.0
SO.....	0.05		

Pack size: 100g

Bismuth Nitrate

CAS 10035-06-0
Bi(NO₃)₃·5H₂O = 485.07

U.N Number.....1477
ADG Class.....5.1
Packing Group.....III



939 Bismuth Nitrate UNIVAR

Description: colourless deliquescent crystals, with an odour of nitric acid.

Assay.....98.5% min.

Maximum limit of impurities(%)

Zn.....	0.001	Cu.....	0.002
Cl.....	0.001	Fe.....	0.001
SO ₄	0.01	Pb.....	0.002
Ag.....	0.001	K.....	0.002
Ca.....	0.002	Na.....	0.002

Store below 25°C

Pack Size: 100g

Bismuth Oxide

CAS 1304-76-3
Bi₂O₃ = 465.96

99 Bismuth Oxide UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

LOI (@1000°C).....	1.0	Ni.....	0.01
Fe.....	0.05	Pb.....	0.005
Cu.....	0.005	Insol. matter in HCl.....	0.05

Pack Size: 100g

Bismuth Oxychloride

CAS 7787-59-9

2392 Bismuth Oxychloride LABCHEM

approx. BiOCl

Pack Size: 100g

Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards. Discover More: www.ajaxfinechem.com/Unipure

Bismuth Sulphate

CAS 7787-68-0
 $\text{Bi}_2(\text{SO}_4)_3 = 706.15$

225

Bismuth Sulphate

UNIVAR

Assay (as $\text{Bi}_2(\text{SO}_4)_3$ ex Bi).....90% min.

Maximum limit of impurities(%)

Cl..... 0.01
 NO₃..... 0.025

K..... 0.005
 Na..... 0.01

Pack Size: 250g

Biuret

CAS 108-19-0
 $\text{C}_2\text{H}_5\text{N}_3\text{O}_2 = 103.08$

2154

Biuret

UNILAB

Description: Off-white crystalline powder

Assay.....99.0% min.

Melting Point.....187 - 194°C

Maximum limit of impurities(%)

L.O.D..... 1

Pack size: 100g

BLO (See *g*-Butyrolactone Page 113)

Blue Tetrazolium Chloride (See Blue Tetrazolium Page 93)

Blue Tetrazolium

CAS 1871-22-3

Synonyms: Blue Tetrazolium Chloride

For succinate dehydrogenase activity and NDH linked enzyme systems.
 Certified for use in assay of corticosteroids in histology redox indicator
 for enzyme

$\text{C}_{40}\text{H}_{32}\text{Cl}_2\text{N}_8\text{O}_2 = 727.64$

3182

Blue Tetrazolium For Microscopy

LABCHEM

Assay (on dry basis, ex Cl).....95% min.

M.P.252 - 254°C

Maximum limit of impurities(%)

Sulphated ash..... 0.2

Pack Size: 1g

Boracic Acid (See Boric Acid Granular Page 94)

Boric Acid Granular

CAS 10043-35-3

Synonyms: Sodium Borate, Borax

H₃BO₃ = 61.83

101 Boric Acid Granular

UNIVAR

Description: white crystals or granules.

Assay.....99.5% min.

Maximum limit of impurities(%)

Insol. (in CH₃OH)..... 0.005
Non-vol. (with CH₃OH)..... 0.05
Cl..... 0.001
PO₄..... 0.001
Ca..... 0.001
K..... 0.001
Na..... 0.01
SO₄..... 0.01
As..... 0.0001
Ba..... 0.0001
Cr..... 0.0001
Co..... 0.0001

Mn..... 0.0001
Mo..... 0.0001
Ni..... 0.0001
Sr..... 0.0001
Al..... 0.0005
Mg..... 0.0005
Zn..... 0.0005
Fe..... 0.0002
Cu..... 0.0002
Cd..... 0.0002
Pb..... 0.0002
H.M as Pb..... 0.001

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

942 Boric Acid Granular

UNILAB

Description: colourless brilliant plates or white crystals, unctuous to the touch; odourless.

Assay.....99.0 - 100.5%

pH.....(3% soln.) 3.8-4.8

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test
Sol. (in ethanol)..... To pass test
SO₄..... 0.045

H.M. (as Pb)..... 0.0015
Na.....To pass test
Carbonisable subs.....To pass test

Organic Matter to pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

102 Boric Acid Powder

UNILAB

Description: white crystalline powder, unctuous to the touch; odourless.

Assay.....99.0 - 100.5%

pH.....(3% soln.) 3.8-4.8

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test
Sol. (in ethanol).....To pass test
SO₄..... 0.045

H.M. (as Pb)..... 0.0015
Organic matter.....To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

907

Boric Acid

LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

SO₄..... 0.1 H.M (as Pb)..... 0.001

Pack Size: 500g

Boron Trifluoride 14% In Methanol

CAS 16045-88-8

U.N Number.....3286

ADG Class.....3

SUB.....6.1/8

Packing Group.....III



1814

Boron Trifluoride 14% In Methanol

UNILAB

Description: clear, colourless liquid

Assay (Acidim.)14.0% min.

Pack size: 500mL

di-Boron Trioxide (Anhydrous)

CAS 1303-86-2

B₂O₃ =69.62

U.N Number.....3082

ADG Class.....9

Packing Group.....III



216

di-Boron Trioxide (Anhydrous) (For analysis of Silicates)

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.002 Ca..... 0.002

Cl..... 0.005 Na..... 0.003

Fe..... 0.00005 K..... 0.003

Pack Size: 250g

BRIJ 35

CAS 9002-92-0

2610

BRIJ 35

LABCHEM

Description: Polyoxyethylene (23) lauryl ether, Nonionic surfactant, stable in alkaline/acid conditions. White waxy solid soluble in water, alcohol and propylene glycol.

Acid value.....5mg KOH/g

Pack Size: 500g

Brilliant Blue R (See Coomassie Brilliant Blue R250 Page 152)

Brilliant Cresyl Blue (C.I. 51010)

CAS 81029-05-2
 $C_{17}H_{20}N_3OCl \cdot \frac{1}{2}ZnCl_2 = 386$

3183 Brilliant Cresyl Blue (C.I. 51010)

LABCHEM

Description: Dark green lustrous powder
Absorption maximum.....about 625nm

Pack size: 25g

Brilliant Fuchsin (See Fuchsin Basic Page 210)

Brilliant Green

CAS 633-03-4
 $C_{27}H_{34}N_2N_2O_4S = 482.6$

3184 Brilliant Green

LABCHEM

Description: Golden coloured fine glistening powder
Absorption maximum.....about 625nm

Pack size: 25g

Bromine

CAS 7726-95-6
 $Br_2 = 159.81$

U.N Number.....1744
ADG Class.....8
SUB.....6.1
Packing Group.....I



3023 Bromine

OP

Density about 3.11g/mL
Assay 99.5% min.

Maximum limit of impurities(%)

Non-vol..... 0.005
Cl 0.05
I 0.001

SO_4 0.0005
Organic Br cpds.....To pass test

Pack Size: 100mL, 250mL

Bromine Water

CAS 7726-95-6

U.N Number.....3287
ADG Class.....6.1
Packing Group.....III



769 Bromine Water

LABCHEM

Contains.....about 3.6% bromine.
Density.....about 1.02g/mL

Pack Size: 500mL

4-Bromo Aniline

CAS 106-40-1
C₆H₆BrN =172.03

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



323 4-Bromo Aniline For Synthesis

UNILAB

Assay (ex NH₂).....98% min.
M.P.61 - 65°C

Maximum limit of impurities(%)
Sulphated ash. 0.1

Pack Size: 25g

4-Bromo Anisole

CAS 104-92-7
Synonyms: 1-Bromo-4-Methoxybenzene
C₇H₇BrO =187.04

322 4-Bromo Anisole

UNILAB

Assay (GC).....>98%
B.P.223°C
Density @ 20°C.....1.494 -1.497
Identity (IR) To Conforms

Pack Size: 100mL

Bromoacetic Acid

CAS 79-08-3
C₂H₃BrO₂ =138.95 g/mol

U.N Number.....3425
ADG Class.....8
Packing Group.....II



121 Bromoacetic Acid For Synthesis

UNILAB

Assay (by acidimetric).....98% min.

Pack Size: 100g, 500g

4-Bromoacetophenone

CAS 99-90-1
C₈H₇BrO =199.04 g/mol

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



325 4-Bromoacetophenone

UNILAB

Assay.....98% min.
M.P.49 - 52°C

Pack Size: 100g

1-Bromo-4-Methoxybenzene (See 4-Bromo Anisole Page 97)

Bromobenzene

CAS 108-86-1
 $C_6H_5Br = 157.01$

U.N Number.....2514
ADG Class.....3
Packing Group.....III



98 Bromobenzene

UNILAB

Assay(GC).....99.0% min.

Pack Size: 100mL, 2.5L

Bromochloromethane

CAS 74-97-5
 $BrCH_2Cl = 129.39$

U.N Number.....1887
ADG Class.....6.1
Packing Group.....III



1342 Bromochloromethane

OP

Assay.....99.0% min.

Density.....1.991

Pack size: 1L

Bromocresol Green

CAS 76-60-8
 $C_{21}H_{14}Br_4O_5S = 698.04$

2327 Bromocresol Green

LABCHEM

pH indicator.

Pack Size: 5g, 50g, 1kg

2513 Bromocresol Green Solution

LABCHEM

Description: Dark green solution.

Visual transition colour

pH (3.8)..... yellow To pass test

pH (4.5)..... green To pass test

pH (5.4)..... blue To pass test

Pack Size: 100mL

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
Discover more: www.ajaxfinechem.com/Labchem

Bromocresol Purple

CAS 115-40-2
 $C_{21}H_{16}Br_2O_5S = 540.24$

2295 Bromocresol Purple

LABCHEM

pH and adsorption indicator.

Visual transition colour

pH (5.2) yellow To pass test

pH (6.8) purple To pass test

Pack Size: 5g, 50g

Bromoethane

CAS 74-96-4
Synonyms: Ethyl Bromide
 $C_2H_5Br = 108.97$

U.N Number.....1891

ADG Class.....6.1

Packing Group.....II



321 Bromoethane For Synthesis

UNILAB

Assay (GC).....99% min.

Density @ 20°C.....1.456 – 1.460

R.I. @ 20°C.....1.4235 – 1.4250

Maximum limit of impurities(%)

N.V. 0.005

Acidity 0.015

Free Br. 0.005

Pack Size: 500ml

Bromoform 99%

CAS 75-25-2
 $CHBr_3 = 252.73$

U.N Number.....2515

ADG Class.....6.1

Packing Group.....III



813 Bromoform 99%, Stabilised With 1% Ethanol

UNILAB

Density (20°C)2.800 - 2.830g/mL

Maximum limit of impurities(%)

Non-vol. 0.05

Ethanol 1.0

Pack Size: 100mL, 500mL, 2.5L

HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at www.ajaxfinechem.com/Unichrom

1-Bromonaphthalene

CAS 90-11-9
C₁₀H₇Br = 207.08

549 1-Bromonaphthalene For Synthesis

LABCHEM

Assay.....98% min.
Density @ 20°C.....1.483 -1.486

Pack Size: 100mL, 10x100mL, 500mL

Bromophenol Blue

CAS 115-39-9
C₁₉H₁₀Br₄O₅S = 669.99

2383 Bromophenol Blue

LABCHEM

pH and adsorption indicator. In electrophoresis, can be used as a tracking dye for alkaline and neutral buffer systems.

Visual Transition Interval:
pH 3.0 (yellow) to pH 4.6 (blue)

Maximum limit of impurities(%)
Clarity of solution.To pass test
Visual transition interval.To pass test

Conforms to ACS

Pack Size: 5g

2-Bromopropane

CAS 75-26-3
C₃H₇Br = 122.99

3110 2-Bromopropane For Synthesis

LABCHEM

Assay (GC).....99% Min.
Density @ 20°C.....1.313 – 1.315

Pack Size: 500ml

Bromopyrogallol Red

CAS 16574-43-9
C₁₉H₁₀Br₂O₈S = 558.16

605 Bromopyrogallol Red

LABCHEM

Adsorption and metal indicator.

Pack Size: 1g

N-Bromosuccinimide

CAS 128-08-5
 $C_4H_4BrNO_2 = 177.98$

U.N Number.....3261
 ADG Class.....8
 Packing Group.....III



3276 N-Bromosuccinimide

UNILAB

Assay (Iodometric).....98% min.
 M.P.175 - 180°C

Maximum limit of impurities(%)
 Sulphated ash..... 0.1

Pack Size: 100g

Bromothymol Blue

CAS 76-59-5
 $C_{27}H_{28}Br_2O_5S = 624.41$

606 Bromothymol Blue

LABCHEM

pH indicator.

Pack Size: 5g, 10g, 500g

Bromothymol Blue Solution

U.N Number.....1170
 ADG Class.....3
 Packing Group.....III



1723 Bromothymol Blue 0.04% Solution

LABCHEM

pH indicator

Pack Size: 100mL

Brucine

CAS 357-57-3
 $C_{23}H_{26}N_2O_4 = 394.46$

U.N Number.....1570
 ADG Class.....6.1
 Packing Group.....I



1492 Brucine

UNILAB

Description: Off-white crystalline powder
 Assay.....99.0% min.
 Melting point.....175 - 177°C
 Specific rotation.....117 - 121°

Maximum limit of impurities(%)
 R.O.I (as SO_4)..... 0.1

Pack size: 25g

Brucine Sulphate

CAS 4845-99-2
(C₂₃H₂₆N₂O₄) H₂SO₄ = 886.99

U.N Number.....1544
ADG Class.....6.1
Packing Group.....II



3025 Brucine Sulphate

UNILAB

Description: white small crystalline powder
Assay.....98.0% min.
Melting point.....176 - 179°C

Maximum limit of impurities (%)

Sulphated Ash..... 0.1 H₂O..... 0.5

Pack size: 25g

Buffer Solution

2431 Buffer pH4, For Use With Residual Cl₂ Analyser

LABCHEM

Description: Buffer concentrate made to water authority formula for dilution 1:4000 in amphoteric treatment/ chlorination of water.

pH@ 20°C (as is).....3.95 - 4.05
pH@ 20°C (1 to 4000).....3.75-4.25

Pack Size: 20L

2489 Buffer Solution pH 6.88

LABCHEM

Stabilized with 0.01% sodium azide

pH@ 20°C (6.88).....6.86 - 6.90
Traceable to NIST

Temperature Correction

°C	v's	pH
10		6.92
15		6.90
20		6.88
25		6.86
30		6.85
35		6.84

Pack Size: 20L

2490 Buffer Solution pH 4.0 Colour Coded (Red)

LABCHEM

Contains potassium hydrogen phthalate. Stabilized with 0.01% sodium azide. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 4.0

pH@ 20°C (4.0).....3.98 - 4.02
Traceable to NIST

Temperature Correction

°C	v's	pH
10		4.00
15		4.00
20		4.00
25		4.00
30		4.00
35		4.01
40		4.02

Pack Size: 100mL, 500mL, 6x500mL, 1L, 6x1L, 20L

2491 Buffer Solution pH 7.0 Colour Coded (Green)

LABCHEM

Contains potassium sodium orthophosphate. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 7.0.

pH@ 20°C (7.00).....6.98 - 7.02

Traceable to NIST

Temperature Correction

°C	v's	pH
10		7.08
15		7.03
20		7.00
25		6.98
30		6.95
35		6.95
40		6.95

Pack Size: 500mL, 6x500nL, 1L, 6x1L

2492 Buffer Solution pH 9.2 Colour Coded (Turq)

LABCHEM

Contains sodium tetraborate. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 9.2.

pH(@ 20°C).....9.13 - 9.23

Temperature Correction

°C	v's	pH
5		9.36
10		9.29
15		9.24
20		9.18
25		9.14
30		9.10
35		9.06

Pack Size: 100mL, 500 mL, 6 x 500mL, 1L, 6 x 1L, 20L

2564 Buffer Solution pH 10.0 Colour Coded, (Blue)

Contains sodium tetraborate stabilized with sodium azide. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 10.0.

pH@ 20°C(10.0).....9.95 - 10.05

Traceable to NIST

Temperature Correction

°C	v's	pH
10		10.10
15		10.05
20		10.00
25		9.95
30		9.91
35		9.87

Pack Size: 100mL, 500mL, 6x500mL, 1L, 6x1L, 20L

8180 pH 4.0 Clear Buffer Solution

LABCHEM

Contains Potassium Hydrogen Phthalate.
Microbiocide added
Stabilised with 0.01% Sodium Azide.
pH.....4.0 ± 0.02 @ 20°C
Traceable to NIST

Temperature Correction

°C	v's	pH
10		4.00
15		4.00
20		4.00
25		4.00
30		4.00
35		4.01
40		4.02

Pack Size: 500mL, 6x500mL, 1L, 6x1L

8181 pH 7.0 Clear Buffer Solution

LABCHEM

Contains Potassium Dihydrogen Othophosphate.
Stabilised with 0.01% Sodium Azide.
pH.....7.0 ± 0.02 @ 20°C
Traceable to NIST

Temperature Correction

°C	v's	pH
10		7.08
15		7.03
20		7.00
25		6.98
30		6.95
35		6.95
40		6.95

Pack Size: 500mL, 6x500nL, 1L, 6x1L

8182 pH 9.22 Clear Buffer Solution

LABCHEM

Contains Sodium Tetraborate stabilised with Sodium Azide.
pH.....9.22 ± 0.05 @ 20°C
Traceable to NIST

Temperature Correction

°C	v's	pH
5		9.36
10		9.29
15		9.24
20		9.18
25		9.14
30		9.10
35		9.06

Pack Size: 500mL, 6x500mL, 1L, 6x1L

8183 **pH 10.00 Clear Buffer Solution** *LABCHEM*

Contains Sodium Tetraborate stabilised with Sodium Azide.
 pH.....10.00 ± 0.05 @ 20°C
 Traceable to NIST

Temperature Correction

°C	v's	pH
10		10.10
15		10.05
20		10.00
25		9.95
30		9.91
35		9.87

Pack Size: 500mL, 6x500mL, 1L, 6x1L

1450 **Buffer Capsules, To Prepare 100ml, pH 4.0** *LABCHEM*

Appearance: Yellow and white coloured capsule containing pH indicating dye and preservative for dissolution in 100mL distilled water

pH(@20°C).....3.95 – 4.05

Pack size: 10 Tablets

1451 **Buffer Capsules, To Prepare 100ml, pH 7.0** *LABCHEM*

Appearance: Green and white coloured capsule containing pH indicating dye and preservative for dissolution in 100mL distilled water

pH(@20°C).....6.95 – 7.05

Pack size: 10 Tablets

1452 **Buffer Capsules, to prepare 100mL, pH 9.2** *LABCHEM*

Appearance: Blue and white coloured capsule containing pH indicating dye and preservative for dissolution in 100mL distilled water

pH (@20°C).....9.15 – 9.25

Pack size: 10 Tablets

2501 **Buffer Pack For Instruments pH 4, 7, 9.2, 10** *LABCHEM*

Buffer pack for instruments pH 4.0, 7.0, 9.2, 10.0

Pack Size: 4X100mL

8010064 **Buffer Tablets pH 6.4 100 mL** *LABCHEM*

These tablets are useful for making solutions of a nominal aqueous pH value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the easy-to-use Buffer solutions.

Pack Size: 50

8010068 Buffer Tablets pH 6.8 100 mL LABCHEM

Pack Size: 50
These tablets are useful for making solutions of a nominal aqueous value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

Pack Size: 50

8010070 Buffer Tablets pH 7.0 100 mL LABCHEM

These tablets are useful for making solutions of a nominal aqueous pH value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

Pack Size: 50

8100072 Buffer Tablets pH 7.2 1L LABCHEM

These tablets are useful for making solutions of a nominal aqueous value. Each tablet is dissolved in 1000ml of distilled water to make a 1L solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

Pack Size: 50

8010090 Buffer Tablets pH 9.2 100mL UNIVAR

These tablets are useful for making solutions of a nominal aqueous value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

Pack Size: 50

Mops

CAS 1132-61-2
C₇H₁₅NO₄S= 209.3

3431 Mops, Biological Buffer UNIVAR

Description: White powder
Assay.....99.0% min.
pH (10% Solution).....3.0 – 5.0

Pack size: 100g, 500g, 1KG

1,4-Butanediol

CAS 110-63-4
 $\text{HO}(\text{CH}_2)_4\text{OH} = 90.12$

1349 1,4-Butanediol UNILAB

Assay.....99.0% min.
 Colour (APHA).....10

Maximum limit of impurities(%)
 Water..... 0.1

Pack size: 500mL

Butan-1-ol

CAS 71-36-3
Synonyms:n-Butanol, n-Butyl Alcohol
 $\text{CH}_3(\text{CH}_2)_2\text{CH}_2\text{OH} = 74.12$

U.N Number.....1120
 ADG Class.....3
 Packing Group.....III



286 Butan-1-ol SPECTROSOL

Density.....0.810 g/mL
 M.P.-89°C
 B.P.117.7°C
 Assay (GC).....99.8% min.
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)
 Water (by Coulometry)..... 0.05
 R.O.E. 0.0005
 FTIR Spectrum.To Pass test

Max. UV. Absorbance:				
λ (nm)	220	230	250	270
Absorbance	0.52	0.22	0.022	0.009

Pack Size: 500mL, 2.5L GL

107 Butan-1-ol UNIVAR

Description: clear liquid with a characteristic odour.
 Density about 0.81g/mL
 Assay(GLC).....99.4% min.
 Colour (APHA).....10 max.

Maximum limit of impurities(%)
 R.A.E. 0.005
 Titratable acid.0.08 mmol
 H Aldehydes. To pass test

Butyl ether 0.2
 H₂O 0.1

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L, 200L

108 Butan-1-ol UNILAB

Density.....about 0.81g/mL
 B.R.(95% min.).....116 - 118°C

Maximum limit of impurities(%)
 Non-vol. 0.05
 Aldehydes & ketones (as C₃H₇CHO)..... 0.2

Pack Size: 500mL, 2.5L, 20L

1324 Butan-1-ol

TECHNICAL

Density.....about 0.81g/mL

Pack Size: 2.5L

Butan-2-ol

CAS 78-92-2

Synonyms:Sec-Butanol, Sec-Butyl Alcohol

$C_2H_5CH(OH)CH_3 = 74.12$

U.N Number.....1120

ADG Class.....3

Packing Group.....III



112 Butan-2-ol

UNILAB

Assay.....99.0%

Colour (APHA).....10 max.

Maximum limit of impurities(%)

H₂O.....0.2

Pack Size: 500mL, 2.5L

Butanal (See Butyraldehyde Page 112)

N-Butanal (See Butyraldehyde Page 112)

Butanoic Acid (See N-Butyric Acid Page 113)

N-Butanol (See Butan-1-ol Page 107)

Sec-Butanol (See Butan-2-ol Page 108)

2-Butanone (See Ethyl Methyl Ketone Page 202)

2-Butoxyethanol

CAS 111-76-2

$C_4H_9OCH_2CH_2OH = 118.18$

947 2-Butoxyethanol

UNILAB

Density.....about 0.90g/mL

B.R.(95% min.) 167 - 172°C

Maximum limit of impurities(%)

Non-vol.....0.01

H₂O.....0.2

Pack Size: 2.5L

n-Butyl Acetate

CAS 123-86-4
 Synonyms: Acetic Acid Butyl Ester
 $\text{CH}_3\text{COO}(\text{CH}_2)_3\text{CH}_3 = 116.16$

U.N Number.....1123
 ADG Class.....3
 Packing Group.....III



109

n-Butyl Acetate

UNILAB

Density.....about 0.88g/mL
 Assay.....97.0% min.
 B.R. (95% min.).....124-127°C
 R.I.1.3940 – 1.3960

Maximum limit of impurities(%)

Non-vol. 0.01
 Acidity (as CH_3COOH)..... 0.01

H_2O 0.1

Pack Size: 500mL, 2.5L, 20L

N-Butyl Alcohol (See Butan-1-ol Page 107)

Sec-Butyl Alcohol (See Butan-2-ol Page 108)

Butyl Carbitol (See Butyldigol Page 112)

Butyl Cellosolve (See 2-Butoxyethanol Page 108)

N-Butyl Chloride (See 1-Chlorobutane Page 137)

Tert-Butyl Chloride (See 2-Chloro-2-Methylpropane Page 140)

Butyl Diicinel (See Butyldigol Page 112)

Butyl Di-Oxitol (See Butyldigol Page 112)

1,4-Butyleneglycol (See 1,4- Butanediol Page 107)

Butyl Icinol (See 2-Butoxyethanol Page 108)

n-Butyl Methacrylate

CAS 97-88-1
 $\text{C}_8\text{H}_{14}\text{O}_2 = 142.20$

U.N Number.....2227
 ADG Class.....3
 Packing Group.....III



507

n-Butyl Methacrylate For Synthesis

LABCHEM

Assay (GC).....>99%
 Density @ 20°C.....0.894 – 0.895

Pack Size: 500mL

Tri-N-Butylamine (See Tributylamine Page 457)

Butyl Oxitol (See 2-Butoxyethanol Page 108)

Tri-n-Butyl Phosphate

CAS 126-73-8
 $\{\text{CH}_3(\text{CH}_2)_3\text{PO}_4 = 266.32$

556 Tri-n-Butyl Phosphate

UNILAB

Description: Used as an antifoam agent and plasticizer.

Density.....about 0.97 g/mL

B.P (5 mm bar).....130°C.

R.I.1.423 - 1.425

Assay.....99% min.

Maximum limit of impurities(%)

Acidity (as DBHP)..... 0.02

Butanol..... 0.2

H₂O..... 0.2

Pack Size: 500mL

DI-n-Butyl Phthalate

CAS 84-74-2
 $\text{C}_6\text{H}_4(\text{COOC}_4\text{H}_9)_2 = 278.35$

184 DI-n-Butyl Phthalate

UNILAB

Assay.....99.0% min.

Density.....1.043-1.048 g/mL

R.I.....1.492 - 1.495

Maximum limit of impurities(%)

Sulph. ash..... 0.02

Acidity......0.3 mmol H

Pack Size: 500mL

Butyl Stearate

CAS 123-95-5
Synonyms: Stearic Acid Butyl Ester
 $\text{C}_{22}\text{H}_{44}\text{O}_2 = 340-60$

308 Butyl Stearate For Synthesis

UNILAB

Assay (by GC).....50%

Density @ 20°C.....0.856 - 0.859

R.I. n 50°/D.....1.4328

Pack Size: 500g

DI-N-Butyl Sulphide

CAS 544-40-1
 $\{\text{CH}_3(\text{CH}_2)_3\}_2\text{S} = 146.30$

1033 DI-N-Butyl Sulphide

TECHNICAL

Density.....about 0.84g/mL
 R.I.....- 1.453
 Assay.....97% min.
 B.R.....185 – 188°C

Pack Size: 100mL

n-Butylamine

CAS 109-73-9
 $\text{CH}_3(\text{CH}_2)_3\text{NH}_2 = 73.14$

U.N Number.....1125
 ADG Class.....3
 SUB.....8
 Packing Group.....II



1325 n-Butylamine

UNILAB

Density.....about 0.74g/mL
 Assay.....99.0% min.

Pack size: 100mL, 500mL

Butylated Hydroxy Anisole (B.H.A.)

CAS 25013-16-5
 $\text{C}_{11}\text{H}_{16}\text{O}_2 = 180.25$

U.N Number.....3007
 ADG Class.....9
 Packing Group.....III



511 Butylated Hydroxy Anisole (B.H.A.)

UNILAB

Assay (by GC).....98% min.
 M.P.58 – 60°C

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001
 As. 0.0003

Ash content..... 0.05

Pack Size: 100g

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Butylated Hydroxy Toluene (B.H.T.)

CAS 128-37-0
 $C_{15}H_{24}O = 220.36$

U.N Number.....3077
ADG Class.....9
Packing Group.....III



119 Butylated Hydroxy Toluene (B.H.T.)

UNILAB

Assay (by GC).....99% min.
M.P.69 – 71°C

Maximum limit of impurities(%)
Sulphated ash. 0.1

Pack Size: 500g

Butyldigol

CAS 112-34-5
 $CH_3(CH_2)_3OCH_2CH_2OCH_2CH_2OH = 162.23$

1326 Butyldigol

UNILAB

Assay.....99.0% min.

Pack size: 500mL

Butyraldehyde

CAS 123-72-8
Synonym: Butanal
 $C_4H_8O = 72.11$

U.N Number.....1129
ADG Class.....3
Packing Group.....II



290 Butyraldehyde

LABCHEM

Assay (GC).....>99%
Density @ 20°C.....0.802 – 0.804

Pack Size: 500mL

1338 Butyraldehyde

OP

Assay.....99.0% min.

Pack size: 500mL

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
Discover more: www.ajaxfinechem.com/Labchem

n-Butyric Acid

CAS 107-92-6
 $C_2H_5CH_2COOH = 88.11$

U.N Number.....2820
 ADG Class.....8
 Packing Group.....III

**2302 n-Butyric Acid**

UNILAB

Density.....about 0.96g/mL
 R.Iabout 1.399
 Assay.....99.0% min.

Maximum limit of impurities(%)
 Water..... 0.1

Pack Size: 500mL

Butyric Aldehyde (See Butyraldehyde Page 112)

g-Butyrolactone

CAS 96-48-0
Synonyms: 4-Hydroxybutric lactone; BLO
 $C_4H_6O_2 = 86.09$

288 g-Butyrolactone For Synthesis

UNILAB

Assay (by GC).....>99%
 Density @ 20°C.....1.128 – 1.129
 R.I. 20°C.....1.4350 -1.4360

Maximum limit of impurities(%)
 H_2O 0.5

Pack Size: 500mL

Cacotheline (Redox Indicator)

CAS 561-20-6
 $C_{21}H_{21}N_3O_7 = 427.417$

287 Cacotheline (Redox Indicator) (Reagent for tin and vanadium Redox indicator for Fe (III) and Ca) UNILAB

Assay (ex N).....95% min.
 Suitability for.....To pass test
 determination of metal

Maximum limit of impurities(%)
 H_2O 5
 Sulphated ash..... 0.1

Pack Size: 5g

Cadion

CAS 5392-67-6
 $C_{18}H_{14}N_6O_2 = 346.35$

283 Cadion

UNILAB

Sensitivity as metal indicator.....To pass test
Sensitivity to Cadmium.....1:2,000,000

Pack Size: 5g

Cadmium 1000ppm Single Element ICP Standard

U.N Number.....2922
ADG Class.....8
SUB.....6.1
Packing Group.....III



2626 Cadmium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Cadmium standard, ready for use.
Cd in 0.5% Nitric acid.

Pack Size: 100mL

Cadmium AAS Standard

U.N Number.....2922
ADG Class.....8
SUB.....6.1
Packing Group.....III



2631 Cadmium AAS Standard

SPECTROSOL

A 1000 ppm cadmium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Cd in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

Cadmium Acetate

CAS 5743-04-4
 $Cd(CH_3COO)_2 \cdot 2H_2O = 266.52$

U.N Number.....2570
ADG Class.....6.1
Packing Group.....III



952 Cadmium Acetate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....0.01

SO₄.....0.06

Fe.....0.002

Pack Size: 500g

Cadmium Carbonate

CAS 513-78-0
CdCO₃ =172.42

U.N Number.....2570
ADG Class.....6.1
Packing Group.....III



3026 Cadmium Carbonate

UNILAB

Cd.....62 – 66%

Maximum limit of impurities(%)

Cl.....0.01

NO₃.....0.1

SO₄.....0.01

K.....0.06

Na.....0.1

Pack Size: 100g

3365 Cadmium Carbonate

UNILAB

Description: white-coloured amorphous powder

Assay (Cd).....62 - 66% min.

Maximum limit of impurities(%)

Cl.....0.01

NO₃.....0.1

SO₄.....0.01

K.....0.06

Pack size: 250g

Cadmium Chloride

CAS 10108-64-2
CdCl₂.2½ H₂O=228.35

U.N Number.....2570
ADG Class.....6.1
Packing Group.....III



837 Cadmium Chloride

UNIVAR

Description: colourless, efflorescent crystals.

Assay.....79.5 –81.0%

Maximum limit of impurities(%)

Insoluble matter.....0.005

Nitrate & Nitrite (as NO₃).....0.003

SO₄.....0.005

Ca.....0.005

Cu.....0.0005

Fe.....0.0005

K.....0.02

Na.....0.05

NH₄.....0.005

Pb.....0.005

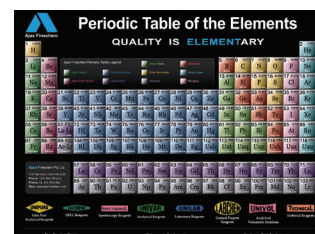
Zn.....0.05

Conforms to ACS

Pack Size: 100g, 500g

Ajax Periodic Table

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Cadmium Iodide

CAS 7790-80-9
CdI₂ = 366.22

U.N Number.....2570
ADG Class.....6.1
Packing Group.....III



7790 Cadmium Iodide

UNIVAR

Description: white, lustrous, flake-like crystals, becomes yellow on long exposure to air and light.
Assay.....99.0% min.

Maximum limit of impurities (%)

Ca.....	0.01	SO ₄	0.005
Fe.....	0.005	Cu.....	0.005

Pack size: 100g

Cadmium Nitrate

CAS 10022-68-1
Cd(NO₃)₂·4H₂O =308.48

U.N Number.....3087
ADG Class.....5.1
SUB.....6.1
Packing Group.....II



841 Cadmium Nitrate

UNIVAR

Assay.....99.0% min.
M.P.59°C

Maximum limit of impurities(%)

Cl.....	0.001	Fe.....	0.001
SO ₄	0.002	Zn.....	0.001
Pb.....	0.003	Ca.....	0.005
Cu.....	0.001	Na.....	0.005

Pack Size: 100g, 500g

Cadmium Oxide

CAS 1306-19-0
CdO =128.41

U.N Number.....2570
ADG Class.....6.1
Packing Group.....III



282 Cadmium Oxide

UNIVAR

Assay.....99.7% min.

Maximum limit of impurities(%)

Cu.....	0.0005	SO ₄	0.03
Fe.....	0.005	Pb.....	0.005
Cl.....	0.005	Zn.....	0.001

Pack Size: 100g

Cadmium Sulphate

CAS 7790-84-3
 $3\text{CdSO}_4 \cdot 8\text{H}_2\text{O} = 769.51$

U.N Number.....2570
 ADG Class.....6.1
 Packing Group.....III



825

Cadmium Sulphate

UNIVAR

Description: white crystalline powder

Assay.....98.0% min.

Maximum limit of impurities(%)

Fe..... 0.001

Pb..... 0.003

Cl..... 0.001

Zn..... 0.05

Insoluble matter..... 0.005

Pack size: 100g, 500g

956

Cadmium Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.02

NO_3 0.005

Fe..... 0.002

Pack Size: 500g

Caesium Chloride

CAS 7647-17-8
 $\text{CsCl} = 168.36$

957

Caesium Chloride

UNIVAR

Description: white deliquescent crystals.

Assay.....99.5% min.

Maximum limit of impurities(%)

SO_4 0.005

Ba..... 0.002

Ca..... 0.002

Fe..... 0.0005

K..... 0.002

Mg..... 0.0005

Na..... 0.002

Pb..... 0.0001

Rb..... 0.005

Al..... 0.0001

Li..... 0.0002

Pack Size: 100g, 500g

958

Caesium Chloride

TECHNICAL

Pack Size: 1Kg

Caesium Nitrate 99.5%

CAS 7789-18-6
CsNO₃ =194-.91

U.N Number.....1451
ADG Class.....5.1
Packing Group.....III



3028 Caesium Nitrate 99.5%

Labchem

Pack Size: 10g

Caesium Sulphate 99.5%

CAS 10294-54-9
Cs₂SO₄ =361.87

2388 Caesium Sulphate 99.5%

Labchem

Pack Size: 10g

Caffeine (anhydrous)

CAS 58-08-2
Synonym: 1,3,7 Trimethylxanthine
C₈H₁₀N₄O₂ =194.20

U.N Number.....1544
ADG Class.....6.1
Packing Group.....II



370 Caffeine (anhydrous)(Suitable for determination of Serum Bilirubin)

UNIVAR

Assay.....99% min.
M.P.235° – 237°C

Maximum limit of impurities(%)

Water insoluble matter..... 0.005
Acidity.....0.5 mL N
L.O.D. @ 80°C..... 0.5
Sulphated ash..... 0.05
Cu..... 0.0002

Fe..... 0.0002
Pb..... 0.0002
Zn..... 0.0002
Theobromine (C₇H₈N₄O₂)..... 0.2

Pack Size: 100g

1584 Caffeine

LABCHEM

Appearance: Fine white powder
M.P.234-239°C

Pack Size: 100g

Calcein

CAS 1461-15-0
C₃₀H₂₆N₂O₁₃ = 622.54

3030 Calcein

OP

Description: Dark red coloured powder
Absorption maximum (in 1N NaOH) 499nm

Maximum limit of impurities(%)

L.O.D.....7

Pack size: 5g

Calcium

CAS 7440-70-2
Ca = 40.08

U.N Number.....1401
ADG Class.....4.3
Packing Group.....II



123 Calcium granules, dry

LABCHEM

Pack Size: 100g, 500g

2428 Calcium, granular in liquid paraffin

LABCHEM

Pack Size: 100g

Calcium

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2627 Calcium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Calcium standard, ready for use.
Ca in 0.5% Nitric acid.
Traceable to NIST

Pack Size: 100mL

Calcium AAS Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2601 Calcium AAS Standard

SPECTROSOL

A 1000 ppm calcium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ca in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

Calcium Acetate, dried

CAS 62-54-4
(CH₃COO)₂Ca = 158.17

733 Calcium Acetate, dried

UNILAB

Description: white powder; odourless or almost odourless. Hygroscopic. The product contains varying amounts of water.

Assay (anhydrous basis).....99.0-100.5%

Maximum limit of impurities(%)

Cl.....0.05

SO₄.....0.2

Water.....10

Pack Size: 500g, 5kg

Calcium Bromide

CAS 7789-41-5
CaBr₂.H₂O M = 199.89.xH₂O

2445 Calcium Bromide

UNILAB

Assay (as CaBr₂).....80% min

Maximum limit of impurities(%)

Cl..... 0.5
As..... 0.0003
Fe..... 0.001
H.M. (as Pb)..... 0.001

SO₄..... 0.01
Ba..... passes test
Bromate (BrO₃)..... passes test
Matter not pptd by ammonium oxalate..... 0.5

Conforms to NF

Pack Size: 500g

Calcium Carbonate

CAS 471-34-1
CaCO₃ = 100.09

125 Calcium Carbonate

UNIVAR

Description: white powder.

Assay(dried basis).....99%.

Maximum limit of impurities(%)

Insol. (in dil. HCl)..... 0.01
Cl..... 0.005
SO₄..... 0.03
K..... 0.01
Ba..... 0.01

Fe..... 0.003
Na..... 0.2
Sr..... 0.1
Mg..... 0.02

Pack Size: 500g, 5kg, 20kg

126 Calcium Carbonate

UNILAB

Description: white powder; odourless.

Assay(after drying).....98.5 - 100.5%

L.O.D. @ 200°C.....2.0%

Maximum limit of impurities(%)

Insol (in acetic acid)..... 0.2
Cl..... 0.033
SO₄..... 0.25
As..... 0.0004

Ba..... To pass test
Fe..... 0.020
H.M. (as Pb)..... 0.002
Mg & alk. metals..... 1.5

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

908 Calcium Carbonate

LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.05
H.M. (as Pb)..... 0.01

Pack Size: 500g

Calcium Chloride Dihydrate

CAS 10035-04-8
CaCl₂.2H₂O = 147.02

127

Calcium Chloride Dihydrate

UNIVAR

Description: colourless deliquescent crystals or white crystalline powder.

Assay.....99.0 - 103.0%
pH (5% soln. @25°C).....4.5-8.5

Maximum limit of impurities(%)

Insol. & NH₄OH ppt. 0.01
Oxidising subs. (as NO₃). 0.003
SO₄..... 0.01
K. 0.01
Na. 0.01
Ba. 0.003
Fe. 0.0003

H.M.(as Pb)..... 0.0005
Cu. 0.0005
Pb. 0.0005
Sr. 0.05
Mg. 0.005
NH₄..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

128

Calcium Chloride Dihydrate

UNILAB

Description: white, crystalline powder; odourless; hygroscopic.

Assay.....97.0 - 103.0%

Maximum limit of impurities(%)

Clarity & colour of soln. To pass test
Acidity or alkalinity. 0.2 mmol H or OH
SO₄..... 0.03
Al. To pass test

Ba. To pass test
Fe. 0.001
H.M. (as Pb)..... 0.002
Mg & alkali metals..... 0.5

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

Calcium Chloride dried,1.5-2.5mm

CAS 10043-52-4
CaCl₂ = 110.99

960

Calcium Chloride dried,1.5-2.5mm

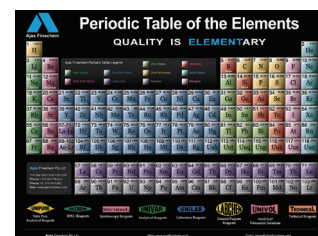
UNILAB

Assay.....93.0-100.5%

Pack Size: 500g, 5kg

Ajax Periodic Table

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Calcium Chloride fused lump

CAS 10043-52-4
CaCl₂ = 110.99

1672 Calcium Chloride fused lump

TECHNICAL

Assay(as CaCl₂).....about 93% min.

Pack Size: 1kg

Calcium Chloride 40% solution

CAS 10043-52-4
CaCl₂ = 110.99

909 Calcium Chloride 40% solution

UNIVAR

Description: clear liquid.

Assay.....40.0% w/w
Density (@25°C).....about 1.4g/mL

Maximum limit of impurities(%)

Insol. & NH₄OH ppt..... 0.01
Acidity or alkalinity..... 0.02 mmol H or OH
Oxidising subs. (as NO₃)..... 0.002
SO₄..... 0.006
Ba..... 0.003
Fe..... 0.0006

H.M. (as Pb)..... 0.0003
K..... 0.01
Mg..... 0.05
Na..... 0.02
NH₄..... 0.003
Sr..... 0.06

Pack Size: 2.5L, 20L

Calcium Citrate

CAS 5785-44-4
C₁₂H₁₀Ca₃O₁₄·4H₂O = 570.50

489 Calcium Citrate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

As..... 0.0001
H.M. (as Pb)..... 0.002
Cl..... 0.005

SO₄..... 0.01
Fe..... 0.005

Pack Size: 500g

Calcium Fluoride

CAS 7789-75-5
CaF₂ = 78.08

1555 Calcium Fluoride

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Fe..... 0.01
Pb..... 0.01
As..... 0.0005

Cl..... 0.1
SO₄..... 0.005

Pack Size: 500g

Calcium Gluconate

CAS 299-28-5
 $\{CH_2OH(CHOH)_4COO\}_2Ca \cdot H_2O = 448.40$

962 Calcium Gluconate TECHNICAL

Pack Size: 500g

3480 Calcium Gluconate Gel OP

This is a temporary first aid treatment

Pack Size: 50g

Calcium Hydrogen Orthophosphate

CAS 7789-77-7
 $CaHPO_4 \cdot 2H_2O = 172.09$

963 Calcium Hydrogen Orthophosphate UNILAB

Assay.....99.0 - 103.0%

Maximum limit of impurities(%)

Cl.....0.04

SO₄.....0.06

Pb.....0.002

Pack Size: 500g, 5kg, 25kg

Calcium Hydroxide

CAS 1305-62-0
Synonym: Slaked lime
 $Ca(OH)_2 = 74.10$

124 Calcium Hydroxide UNIVAR

Description: fine, white powder.

Assay.....96.0% min.

Maximum limit of impurities(%)

Insol. (in HCl).....0.03

Cl.....0.005

Sulphate (SO₄).....0.05

Fe.....0.05

Pb.....0.0002

Mg.....0.6

Na.....0.05

CaCO₃......3

Sol matter in Amm. Oxalate(as SO₄).....2.5

Zn.....0.0005

Pack Size: 500g, 5kg

965 Calcium Hydroxide UNILAB

Description: soft, white powder.

Assay.....95.0 - 100.5%

Maximum limit of impurities(%)

Cl.....0.033

SO₄.....0.4

As.....0.0004

H.M. (as Pb).....0.0020

Carbonates.....5.0

Matter insol in HCl.....0.5

Mg & alkali metals (as SO₄).....4.0

Chemical and physical parameters conform to BP

Pack Size: 1kg, 5kg, 25kg

133 Calcium Hydroxide

TECHNICAL

Pack Size: 3kg

Calcium Lactate

CAS 814-80-2

 $C_6H_{10}CaO_6^* + aq$ (MW for anhydrous*=218)**2376 Calcium Lactate**

UNILAB

Description: white or almost white crystalline or granular powder; odourless or with a slight but not unpleasant odour. Slightly efflorescent.

L.O.D. (@ 120°C).....about 24%

Assay (after drying).....98.0 - 101.0%

Maximum limit of impurities(%)

Cl..... 0.005

SO₄..... 0.01

Fe..... 0.002

H.M.(as Pb)..... 0.002

Mg & alkali salts (as SO₄)..... 1.0

Acidity.....To pass test

Vol Fatty Acids.....To pass test

As..... 0.0003

F..... 0.0015

Pb..... 0.001

Chemical and physical parameters conform to FCC

Pack Size: 500g

Calcium Nitrate

CAS 13477-34-4

 $Ca(NO_3)_2 \cdot 4H_2O = 236.15$

U.N Number.....1454

ADG Class..... 5.1

Packing Group.....III

**135 Calcium Nitrate**

UNIVAR

Description: colourless deliquescent crystals or small white lumps.

Assay.....99.0 - 103.0%

pH (5% soln. @ 25°C).....5.0-7.0

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.005

NO₂..... 0.001

Ba..... 0.005

Fe..... 0.0005

K..... 0.005

Mg..... 0.05

Na..... 0.01

Sr..... 0.05

H.M.(as Pb)..... 0.0005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

136 Calcium Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

SO₄..... 0.02

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg

Calcium Oxide Lump

CAS 1305-78-8
CaO = 56.08

U.N Number.....1910
ADG Class.....8
Packing Group.....III



966

Calcium Oxide Lump

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Insol. (in HCl)..... 0.1

Pack Size: 1Kg

1350

Calcium Oxide powder

UNILAB

Assay (after Ignition).....99% min.

Maximum limit of impurities(%)

Insol. in HCl..... 0.5

L.O.I..... 10.0

Sol.matter in Am Oxalate (as SO₄)..... 2.5

As..... 0.0003

Cu..... 0.001

Pb..... 0.001

Zn..... 0.002

Pack Size: 500g, 5kg, 25kg

Calcium-D-Pantothenate

CAS 137-08-6

Synonyms: (+) Pantothenic Acid Calcium; Vitamin B5

C₁₈H₃₂CaN₂O₁₀ =476.54

376

Calcium-D-Pantothenate For Biochemistry

UNILAB

IR Spectrum.....To pass test

Maximum limit of impurities(%)

Ca..... 8.2 – 8.6%

Cl..... 0.02

L.O.D. (@ 105°C)..... 2.0

Pack Size: 25g

Tri-Calcium Phosphate

CAS 7758-87-4

Ca₃O₈P₂ = 310.2

1277

Tri-Calcium Phosphate

UNIVAR

Description: white, amorphous, odourless, tasteless powder

Assay (on dry basis).....90.0% min.

Maximum limit of impurities(%)

Fe..... 0.02

H.M. (as Pb)..... 0.005

Cl..... 0.2

SO₄..... 0.6

Pack size: 1Kg

Calcium Phosphate Monobasic (See Calcium Tetrahydrogen Di-Orthophosphate Page127)

Calcium Propionate

CAS 4075-81-4
 $C_6H_{10}CaO_4 = 186.22$

279 Calcium Propionate UNILAB

Assay (on dry basis).....97% min.
pH (2% aqueous soln).....7.5 – 9.0

Maximum limit of impurities(%)
Cl..... 0.01 SO₄..... 0.05

Pack Size: 500g

Calcium Stearate

CAS 1592-23-0
 $C_{36}H_{70}CaO_4 = 607.02$

131 Calcium Stearate UNILAB

Assay of CaO.....7% min.

Maximum limit of impurities(%)
Ash..... 10 H.M. (as Pb)..... 0.004
L.O.D. (@ 105°C, 3h)......3 Cl..... 0.02
Free acid (as stearic acid)..... 0.3 SO₄..... 0.1

Pack Size: 500g

Calcium Sulphate anhydrous, powder

CAS 7778-18-9
 $CaSO_4 = 136.14$

968 Calcium Sulphate anhydrous, powder LABCHEM

Suitable for drying.

Pack Size: 500g

Calcium Sulphate dihydrate

CAS 10101-41-4
 $CaSO_4 \cdot 2H_2O = 172.17$

138 Calcium Sulphate dihydrate UNIVAR

Description: white crystalline powder.
Assay.....98.0 - 102.0%

Maximum limit of impurities(%)
Insol. (in HCl)..... 0.02 H.M. (as Pb)..... 0.002
CO₃.....To pass test Mg..... 0.02
Cl..... 0.005 K..... 0.005
NO₃.....To pass test Na..... 0.02
Fe..... 0.001 Sr..... 0.05

Conforms to ACS

Pack Size: 500g, 5kg

139 Calcium Sulphate Dihydrate UNIVAR

Assay.....98.0% min.
 Maximum limit of impurities(%)
 CO₃..... 0.2
 Cl..... 0.03 Fe..... 0.02

Pack Size: 500g

Calcium Tetrahydrogen DI-Orthophosphate

CAS 7758-23-8
 Ca(H₂PO₄)₂ = 234.05

1522 Calcium Tetrahydrogen DI-Orthophosphate UNILAB

Assay.....>90% min.
 Maximum limit of impurities(%)
 Cl..... 0.002 Fe..... 0.015
 SO₄..... 0.05 H.M.(as Pb)..... 0.001
 As..... 0.0001 LOD (@140°C).....1% max

Pack Size: 500g, 5kg

Calcon Carboxylic Acid

CAS 3737-95-9
 Synonyms: 2 Hydroxy-1(2-Hydroxy-4 Sulpho-1 Naphthylazo)-3 Napthoic Acid
 C₂₁H₁₄N₂O₇S =438.41

3065 Calcon Carboxylic Acid(Indicator for the Complexometric titration) LABCHEM
 (Patton & Reeder's reagent)

Pack Size: 5g

Calmagite

CAS 3147-14-6
 C₁₇H₁₄O₅N₂S = 358.38

3032 Calmagite OP

Description: red-coloured crystalline powder
 Dye content about 60.0%

Pack size: 5g

Calomel (See Mercurous Chloride Page 278)

Calomel (See Mercury (I) Chloride Page 279)

Capryl Alcohol (See Octan-2-Ol Page 315)

Canada Balsam

CAS 8007-47-4

3185 Canada Balsam

OP

Description: yellow-coloured transparent, sticky liquid of high viscosity

Density.....0.987 – 0.994

R.I (n₂₀/D).....1.52 – 1.54

Pack size: 500g

Capric Acid (See Decanoic Acid Page 164)

Caproic Acid

CAS 142-62-1

Synonyms: Hexanoic Acid

C₆H₁₂O₂ = 116.6

U.N Number.....2829

ADG Class.....8

Packing Group.....III



367 Caproic Acid For Synthesis

LABCHEM

Assay.....98% min.

Density 20°C..... 0.926 – 0.928

Pack Size: 500mL

Carbamide (See Urea Page 474)

Carbazole

CAS 86-74-8

C₁₂H₉N = 167.21

2696 Carbazole

LABCHEM

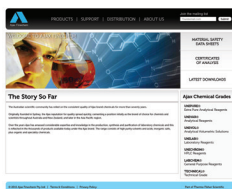
Description: Beige-coloured crystalline powder

Assay.....95% min.

Pack size: 100g

Carbinol (See Methanol Page 284)

Carbitol (See Ethyldigol Page 197)



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Carbol Fuchsin

CAS 4197-24-4

U.N Number.....2928

ADG Class.....6.1

SUB.....8

Packing Group.....II



3187 Carbol Fuchsin

LABCHEM

Description: Dark, olive green crystalline powder
Solubility: Soluble in water, slightly soluble in alcohol.

Pack size: 5G

1822 Carbol Fuchsin, Dilute Stain

LABCHEM

Contains Basic Fuchsin 0.1%

Pack Size: 1L, 5L

Carbonyldiamide (See Urea Page 474)

Carmine (CI 75470)

CAS 1390-65-4

3188 Carmine (CI 75470)

LABCHEM

Description: Dark reddish coarse powder
Solubility: Soluble in water and concentrated Sulphuric acid. Slightly soluble in ether, and practically insoluble in petroleum ether, benzene, and chloroform.

Assay (as Carminic acid).....42.0% min

Colour change (1% aqueous solution): Yellow in acid
 Red in alkali

Pack size: 25g

Carminic Acid

CAS 1260-17-9

Synonym: Natural red 4

$C_{22}H_{20}O_{13}$ =492.40

U.N Number.....3147

ADG Class.....8

Packing Group.....III



3292 Carminic Acid For Microscopy C.I. 75470

LABCHEM

Assay.....(by Acidimetry, on dried substance)98% min.
 L.O.D. @ 105°C.....7% max.
 Suitability for microscopy.....To pass test

Pack Size: 1g

Catechol

CAS 120-80-9

Synonym: 1,2-Dihydroxybenzene

$C_6H_4(OH)_2 = 110.11$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



1740 Catechol

UNILAB

Description: Light Sensitive.

Assay.....(titration) 99% min.

M.P.104 - 106°C

Pack Size: 100g

Caustic Antimony (See Antimony Trichloride Page 68)

Caustic Potash (See Potassium Hydroxide Pellets Page 354)

Caustic Soda (See Sodium Hydroxide Mini Pearl Page 410)

Cedarwood Oil

3190 Cedarwood Oil, Thick For Immersion Lenses

LABCHEM

For immersion lenses.

Pack Size: 100mL

Celestine Blue

CAS 1562-90-9

$C_{17}H_{18}ClN_3O_4 = 363.8$

3191 Celestine Blue

LABCHEM

Description: greenish-black powder

Dye content 70.0% min.

Pack size: 25g

Cellobiose

CAS 528-50-7

$C_{12}H_{22}O_{11} = 342.30$

3037 Cellobiose For Biochemistry Substrate for glucosidase

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

H₂O..... 0.5

Pack Size: 5g

Cellulose(See Cellulose Microcrystalline Page 131)

Cellulose Acetate

CAS 9004-35-7

Synonym: Acetylcellulose

972**Cellulose Acetate**

LABCHEM

Acetic Acid Content.....53.5 – 56%

Pack Size: 500g

Cellosolve (See 2-Ethoxyethanol Page 195)

Cellulose Microcrystalline

CAS 9004-34-6

Synonyms: Cellulose, Cotton linters

 $(C_6H_{10}O_5)_n$ **357****Cellulose Microcrystalline For Thin Layer Chromatography**

LABCHEM

Equivalent Avicel

Pack Size: 500g

Ceric Oxide

CAS 1306-38-3

Synonym: Cerium (IV) Oxide

 $CeO_2 = 172.11$ **806****Ceric Oxide**

UNILAB

Assay.....99.95% min.

Maximum limit of impurities(%)

Other rare earths (as Oxide). 0.05

Pack Size: 100g

Cerium(III) Nitrate

CAS 10108-73-3

 $Ce(NO_3)_3 \cdot 6H_2O = 434.23$ **974****Cerium(III) Nitrate**

LABCHEM

Pack Size: 100g

Cerium (IV) Oxide (See Ceric Oxide Page 131)

Cerium (III) Sulphate

CAS 13454-94-9
 $\text{Ce}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O} = 712.55$

1288 Cerium (III) Sulphate

LABCHEM

Pack Size: 500g

Cerium(IV) Sulphate

CAS 10294-42-5
 $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O} = 404.31$

973 Cerium(IV) Sulphate

UNIVAR

Assay.....98% min.

Maximum limit of impurities(%)

Insol.in Dil. H_2SO_4 0.01

Cu..... 0.001

Pb..... 0.001

Fe..... 0.001

Cl..... 0.001

PO_4 0.01

Pack Size: 100g

Cetrimide

CAS 8044-71-1
 $\text{CH}_3(\text{CH}_2)_n\text{N}(\text{CH}_3)_3\text{Br}$: where $n=13$, mol.wt = 336.4

2381 Cetrimide

UNILAB

Description: white to creamy-white, voluminous, free flowing powder; odour slight & characteristic. Consists chiefly of $n=13$, & small amounts $n=11$ & 15

Assay (as $n=13$).....about 96.0%

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test

L.O.D..... 2.0

Sulph. ash..... 0.5

Acidity or alkalinity..... 1 mmol H or OH

Non-quaternary amines..... To pass test

Pack Size: 500g

Cetylpyridinium Chloride

CAS 6004-24-6
 $\text{CH}_3(\text{CH}_2)_{15}\text{C}_5\text{H}_5\text{NCl} \cdot \text{H}_2\text{O} = 358.01$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....I



145 Cetylpyridinium Chloride

UNILAB

Description: A white, unctuous powder.

Assay.....96.0 - 101.0%

Water.....4.5-5.5%

Pack Size: 100g

Cetyltrimethylammonium Bromide

CAS 57-09-0
 $\text{CH}_3(\text{CH}_2)_{15}\text{N}(\text{CH}_3)_3\text{Br} = 364.46$

147 Cetyltrimethylammonium Bromide UNILAB

Assay(ex.Br).....98% min.

Pack Size: 100g, 500g, 5kg

Charcoal Activated Granular

CAS 16291-96-6

U.N Number.....1362

ADG Class.....4.2

Packing Group.....III



976 Charcoal Activated Granular TECHNICAL

Used widely for removing chlorine from water (prior to ion exchange), decolourization of solvents etc. Particle size 87% greater than 1mm. Apparent density 260gm/L (varies)

Maximum limit of impurities(%)

Ash..... 6

Pack Size: 500g, 3kg

Charcoal Activated

CAS 16291-96-6

U.N Number.....1362

ADG Class.....4.2

Packing Group.....III



977 Charcoal Activated TECHNICAL

Description: High efficiency activated carbon.

Maximum limit of impurities(%)

Iron..... 0.1

Cl..... 0.2

Ash..... 8

H₂O..... 10

Pack Size: 500g, 3kg

Ches, Biological Buffer

CAS 103-47-9
 $\text{C}_8\text{H}_{17}\text{NO}_3\text{S} = 207.3$

3433 Ches, Biological Buffer UNIVAR

Description: White powder

Solubility (5% in H₂O): Clear and complete

Assay.....99.0% min.

pKa.....9.3 – 9.7

Maximum limit of impurities(%)

Moisture..... 1.0

Pack size: 100g, 1kg

Chile Saltpetre (See Sodium Nitrate Page 416)

China Blue (See Aniline Blue Water Soluble C.I.42755 Page 63)

China Green (See Malachite Green (CI 42000) Page 268)

Chloral Hydrate

CAS 302-17-0
 $\text{CCl}_3\text{CH}(\text{OH})_2 = 165.40$

U.N Number.....2811
ADG Class.....6.1
Packing Group.....II



148

Chloral Hydrate

UNILAB

Description: colourless transparent crystals; odour, pungent.

Assay.....98.5 - 101.0%
Acidity (pH 10% soln).....3.5 - 5.5

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test
Non-vol.....0.1
Chloral alcoholate.....To pass test

Cl.....0.0100
H.M.(as Pb).....0.002

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Chloramine T

CAS 127-65-1
 $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCINa}\cdot 3\text{H}_2\text{O} = 281.69$

U.N Number.....3263
ADG Class.....8
Packing Group.....III



859

Chloramine T

LABCHEM

Reagent for iodide.

Assay.....98 -103%
pH.....8.0 - 10.0

Maximum limit of impurities(%)

Appearance of solution.....To pass test
Insoluble matter in water.....To pass test

Insoluble matter in Ethanol.....1.5

Store below 4°C (refrigerate)

Pack Size: 500g, 25Kg

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Chloroacetic Acid

CAS 79-11-8
 $C_2H_3ClO_2 = 94.5$

U.N Number.....1751
 ADG Class.....6.1
 SUB.....8
 Packing Group.....II



650

Chloroacetic Acid

UNIVAR

Description: White crystalline powder
 Assay 99.0% min.

Maximum limit of impurities(%)

Fe..... 0.002
 H.M (as Pb)..... 0.001
 Insoluble matter..... 0.01
 R.A.I..... 0.02

Cl..... 0.01
 SO_4 0.02
 Substances darkened by H_2SO_4To pass test

Pack size: 100g

Chloroacetyl Chloride

CAS 79-04-9
 $C_2H_2Cl_2O = 112.94$

U.N Number.....1752
 ADG Class.....6.1
 Packing Group.....I



150

Chloroacetyl Chloride For Synthesis

UNILAB

Assay.....98% min.
 Density @ 20°C.....1.417 - 1.420

Pack Size: 500 mL

4-Chloroaniline

CAS 106-47-8
 $C_6H_6ClN = 127.57$

U.N Number.....2018
 ADG Class.....6.1
 Packing Group.....II



4625

4-Chloroaniline

UNILAB

Description: Black shining crystals

Assay.....98.0% min.
 Melting Point.....68 - 72°C

Pack size: 250g

561

4-Chloroaniline For Synthesis

LABCHEM

Assay.....98% min.
 M.P.69 - 72°C

Pack Size: 500g

Chloranillic Acid

CAS 87-88-7
 $C_6H_2Cl_2O_4 = 208.98$

347 Chloranillic Acid

UNIVAR

Assay(T).....99% min.
M.P.....282 -284°C

Maximum limit of impurities(%)
Fe..... 0.001
H₂O..... 0.5
Sulphated ash..... 0.1

Pack Size: 25g

Chloranillic Acid Barium Salt (See Barium Chloranilate Page 77)

p-Chlorobenzaldehyde

CAS 104-88-1
 $C_7H_5ClO = 140.6$

U.N Number.....3082
ADG Class.....9
Packing Group.....III



1654 p-Chlorobenzaldehyde

UNILAB

Description: Off-white coloured, fine crystalline powder
Assay.....98.0% min.

Pack size: 100g

Chlorobenzene

CAS 108-90-7
 $C_6H_5Cl = 112.56$

U.N Number.....1134
ADG Class.....3
Packing Group.....III



151 Chlorobenzene

UNILAB

Assay(GLC).....99.5% min.
Colour (APHA).....10 max.

Maximum limit of impurities(%)
Water..... 0.01

Pack Size: 2.5L, 20L

4-Chlorobenzeneamine (See 4-Chloroaniline Page 135)

M-Chloronitrobenzene (See 1-Chloro-3 Nitrobenzene Page 140)

1-Chlorobutane

CAS 109-69-3
 $\text{CH}_3(\text{CH}_2)_3\text{Cl} = 92.57$

116

1-Chlorobutane

UNILAB

Density.....about 0.88g/mL.
 R.I.....about 1.401
 Assay.....99% min.

Pack Size: 500ml

1-Chloro-2,4-Dinitrobenzene

CAS 97-00-7
 $\text{C}_6\text{H}_3\text{ClN}_2\text{O}_4 = 202.55$

U.N Number.....1577
 ADG Class.....6.1
 Packing Group.....II



978

1-Chloro-2,4-Dinitrobenzene

UNIVAR

Description: Yellow crystals
 Assay.....99.0% min.

Maximum limit of impurities(%)
 Sulphated ash..... 0.02

Pack size: 100g

2-Chloroethanol

CAS 107-07-3
Synonym: Ethylene Chlorhydrin
 $\text{C}_2\text{H}_5\text{ClO} = 80.51$

U.N Number.....1135
 ADG Class.....6.1
 SUB.....3
 Packing Group.....I



555

2-Chloroethanol

UNIVAR

Assay.....99.5% min.

Maximum limit of impurities(%)

H_2O 0.1
 R.O.E..... 0.001
 Fe..... 0.0001
 Cu..... 0.00001
 Co..... 0.00001

Ni..... 0.00001
 Pb..... 0.00001
 Cd..... 0.00001
 Zn..... 0.00001

Pack Size: 500mL

Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Safe for the environment

- <> Non-Hazardous
- <> Harmless

Cat-No **Pack Size**
 8745 500g, 1kg, 3kg, 5kg, 25kg

Chloroform

CAS 67-66-3
CHCl₃ = 119.38

U.N Number.....1888
ADG Class.....6.1
Packing Group.....III



2318 Chloroform

UNICHROM

Description: clear liquid with a characteristic odour. Stabilized with about 0.005% amylene.

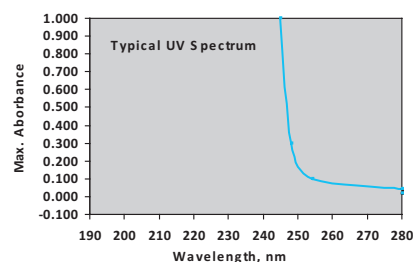
Assay (GLC).....>99.5%
R.I.1.446

Maximum limit of impurities(%)

Non-vol.....0.001
Acidity(as HCl).....0.001
H₂O (by K.F.).....0.05

UV Absorbance:

λ(nm)	245	254	280
Max. abs.	1.00	0.25	0.02



Suggested Applications:

Specialty purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L

810 Chloroform

SPECTROSOL

Description: clear liquid; characteristic odour.

For U.V. spectroscopy.

Density @25°C.....about 1.472g/mL
Assay.....99.8% min.
Colour (APHA).....10 max.
Preservative Amylene

Maximum limit of impurities(%)

R.A.E.....0.001
Acid & Cl.....To pass test
Free chlorine (as Cl).....To pass test
Pb.....0.000005

Acetone & aldehydes.....0.005
(as (CH₃)₂CO)
Subs. darkened by H₂SO₄.....To pass test
Suitability for dithizone test.....To pass test

U.V. Absorbance:

λ(nm)	245	255	260	270	290-400
Max. abs.	1.00	0.25	0.15	0.05	0.01

Conforms to ACS

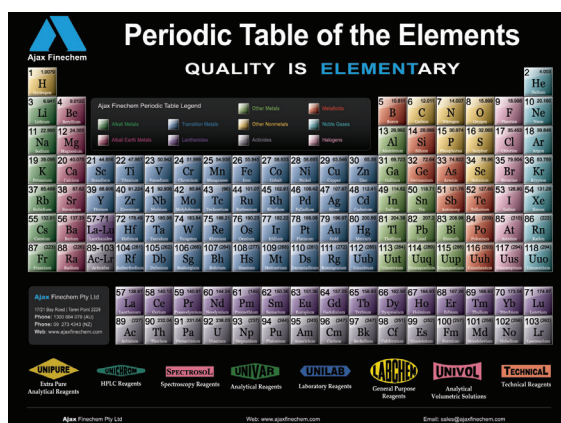
Pack Size: 2.5L

Ajax Finechem Periodic Table

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The slick and colourful Periodic Table of the Elements poster will be a welcome addition to your laboratory.

To request your copy simply visit www.ajaxfinechem.com/Marketing complete the "literature request"-form or email your request to sales@ajaxfinechem.com and a FREE Ajax Finechem Periodic Table will be delivered to you promptly.



152

Chloroform

UNIVAR

Description: a clear liquid with a characteristic odour.
 Density @ 25°C.....about 1.472g/mL
 Assay.....99.8% min.
 Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.E..... 0.001
 Acetone & aldehyde as (CH₃)₂CO..... 0.005
 Acid & chloride..... To pass test
 Free chloride (Cl)..... To pass test
 Subs. darkened by H₂SO₄.....To pass test
 Al..... 0.00005
 Na..... 0.00005
 Ba..... 0.00001
 Ca..... 0.00001
 Fe..... 0.00001
 Mg..... 0.00001
 K..... 0.00001

Cd..... 0.000005
 Pb..... 0.000005
 Mn..... 0.000002
 Ni..... 0.000002
 Sr..... 0.000002
 Cr..... 0.000002
 Co..... 0.000002
 Cu..... 0.000002
 Mo..... 0.000001
 As..... 0.000001
 Zn..... 0.0001

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 200L

153

Chloroform

UNILAB

Description: colourless, volatile liquid; odour, characteristic.
 B.R.(95%).....60 – 62°C
 Density (@20°C).....1.474 – 1.479 g/mL

Maximum limit of impurities(%)

Non-volatile matter..... 0.003% max.
 Acidity or alkalinity..... To pass test
 Aldehydes..... To pass test
 Related substances (total).....To pass test

Free chlorine.....To pass test
 Foreign chlorine comps..... To pass test
 Chloride..... To pass test
 Ethanol..... 1-2%

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L, 290kg

4-Chloro-m-Cresol

CAS 59-50-7
 C₆H₃Cl(CH₃)OH = 142.59

U.N Number.....2669
 ADG Class.....6
 Packing Group.....II



2348

4-Chloro-m-Cresol

LABCHEM

M.P.(diamorphous).....55.5° and 66°C

Pack Size: 250g, 5kg

4-Chloro-3-Methylphenol (See 4-Chloro-M-Cresol Page 139)

2-Chloro-2-Methylpropane

CAS 507-20-0
(CH₃)₃CCl = 92.57

U.N Number.....1127
ADG Class.....3
Packing Group.....II



118 2-Chloro-2-Methylpropane

UNILAB

Pack Size: 500g, 5kg
Density.....about 0.84 g/mL
R.I.about 1.385
Assay(GC).....99% min.

Pack Size: 500mL

1-Chloro-2 Nitrobenzene

CAS 88-73-3
C₆H₄ClNO₂ =157.55

U.N Number.....1578
ADG Class.....6.1
Packing Group.....II



554 1-Chloro-2 Nitrobenzene

LABCHEM

Assay (GC).....99% min.
M.P.31 – 33°C

Pack Size: 500g

1-Chloro-3 Nitrobenzene

CAS 121-73-3
Synonyms: m-Chloronitrobenzene
C₆H₄ClNO₂ =157.55

U.N Number.....1578
ADG Class.....6.1
Packing Group.....II



336 1-Chloro-3 Nitrobenzene For Synthesis

LABCHEM

Assay (GC).....>99%
M.P.43 – 46°C

Pack Size: 500g

1-Chloro-4-Nitrobenzene

CAS 100-00-5
C₆H₄ClNO₂ =157.55

U.N Number.....1578
ADG Class.....6.1
Packing Group.....II



337 1-Chloro-4-Nitrobenzene

LABCHEM

Assay (GC).....99% min.
M.P.80 – 84°C

Pack Size: 500g

4-Chlorophenol

CAS 106-48-9
 $\text{Cl.C}_6\text{H}_4.\text{OH} = 128.56$

U.N Number.....2020
 ADG Class.....6.1
 Packing Group.....III



117

4-Chlorophenol

LABCHEM

Assay.....98% min.
 M.P.41– 45°C

Pack Size: 500g

Chlorophenol Red

CAS 4430-20-0
 $\text{C}_{19}\text{H}_{12}\text{Cl}_2\text{O}_5\text{S} = 423.3$

3158

Chlorophenol Red

LABCHEM

Appearance: Black with green lustre.
 Reaction: pH range.....4.8 (yellow) – 6.4 (red)
 L.O.D :8.0%

Pack size: 25g

Chloroplatinic Acid

CAS 16941-12-1
 $\text{H}_2\text{PtCl}_6.6\text{H}_2\text{O} = 517.90$

U.N Number.....2507
 ADG Class.....8
 Packing Group.....III



740

Chloroplatinic Acid

UNIVAR

Reagent for potassium.
 Assay(as Pt).....37.50% min.

Maximum limit of impurities(%)
 Alkalis & other salts (as SO_4)..... 0.05
 Solubility (in alcohol)..... To pass test

Pack Size: 1g

Chlorosulphonic Acid

CAS 7790-94-5
Synonym: Chlorosulfonic Acid
 $\text{HClO}_3\text{S} = 116.52$

U.N Number.....1754
 ADG Class.....8
 Packing Group.....I



979

Chlorosulphonic Acid

UNILAB

Assay (by acidimetry).....>97%
 Density @ 20°C.....1.740 – 1.753
 Decomposes in water Corrosive, Irritant

Pack Size: 500 mL

Chlorotrimethylsilane (See Trimethylchlorosilane Page 461)

Cholesterol

CAS 57-88-5
 $C_{27}H_{46}O = 386.67$

1729 Cholesterol LABCHEM

Assay.....95% min.

Pack Size: 100g, 1kg

Cholic Acid

CAS 81-25-4
 $C_{24}H_{40}O_5 = 408.58$

115 Cholic Acid For Biochemistry LABCHEM

Assay (by acidimetry).....98 - 101%
M.P.196 - 202°C

Maximum limit of impurities(%)

Cl. 0.002 Desoxycholic Acid..... 0.5

Pack Size: 25g

Choline Chloride

CAS 67-48-1
 $C_5H_{14}ClNO = 139.6$

3039 Choline Chloride UNIVAR

Appearance: white crystalline powder

Assay.....99.0%

Maximum limit of impurities(%)

Fe. 0.0005 SO_4 0.005
H.M (as Pb)..... 0.0005 Cd..... 0.0005

Pack size: 100g

Chrome Alum (See Chromium (III) Potassium Sulphate Page 144)

Chromeazurol S C.I. 43825

CAS 1667-99-8
 $C_{23}H_{13}Cl_2Na_3O_9S = 605.28$

335 Chromeazurol S C.I. 43825 LABCHEM

Metal (pM) indicator for
determination of Fluoride

Pack Size: 10g

Chromic Acid (See Chromium Trioxide Page 145)

Chromic Anhydride (See Chromium Trioxide Page 145)

Chromium 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2630 Chromium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Chromium standard, ready for use.
 Cr in 0.5% Nitric acid.

Pack Size: 100mL

Chromium AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2632 Chromium AAS Standard

SPECTROSOL

A 1000 ppm Chromium standard, ready for use.
 Each mL contains 1.00+/-0.005mg of Cr in 0.5% Nitric Acid

Pack Size: 500mL

Chromium(III) Chloride

CAS 10060-12-5
 $\text{CrCl}_3 \cdot 6\text{H}_2\text{O} = 266.45$

826 Chromium(III) Chloride

UNIVAR

Description: dark green deliquescent crystals.

Assay.....97.0% min.
 pH(5% soln).....2.9 min

Maximum limit of impurities(%)

Insol.....	0.003	Fe.....	0.02
SO ₄	0.03	K.....	0.005
Al.....	0.025	NH ₄	0.01
Ca.....	0.005	Na.....	0.02

Pack Size: 100g, 500g

981 Chromium(III) Chloride

UNILAB

Assay.....96% min.

Maximum limit of impurities(%)

SO ₄	0.05	Fe.....	0.03
-----------------------	------	---------	------

Pack Size: 500g

Chromium(III) Nitrate

CAS 7789-02-8
 $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} = 400.15$

U.N Number.....2720
ADG Class.....5.1
Packing Group.....III



2478 Chromium(III) Nitrate

UNILAB

Assay.....96% min.

Maximum limit of impurities(%)

Cl.....0.003
 SO_40.03

Fe.....0.1
 NH_40.005

Low melting substance. Store below 25°C

Pack Size: 250g

Chromium (III) Oxide Green

CAS 1308-38-9
 $\text{Cr}_2\text{O}_3 = 151.99$

114 Chromium (III) Oxide Green Anhydrous

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Substances soluble in water.....0.3
Cl.....0.01
 SO_40.01

H.M. (as Pb).....0.002
Fe.....0.02

Pack Size: 500g

Chromium (III) Potassium Sulphate

CAS 7788-99-0
 $\text{KCr}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 499.39$

155 Chromium (III) Potassium Sulphate Dodecahydrate

UNIVAR

Assay (by iodometry).....99% min.

Maximum limit of impurities(%)

Substances soluble in water.....0.01
Cl.....0.002
Pb.....0.005
Cu.....0.001

Ni.....0.001
Fe.....0.01
Al.....0.005
 NH_40.01

Pack Size: 500g

156 Chromium (III) Potassium Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....0.04
Fe.....0.05

NH_40.1
H.M.(as Pb).....0.01

Pack Size: 500g, 25kg

Chromic Sulphate (See Chromium (III) Sulphate Basic Page 145)

Chromium (III) Sulphate Basic

CAS 39380-78-4
Synonym: chromic Sulphate
 Approx. $\text{Cr}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$

U.N Number.....2811
 ADG Class.....6.1
 Packing Group.....III



1501 Chromium (III) Sulphate Basic

UNILAB

Chromium (Cr).....20.5 – 21.5%

Maximum limit of impurities(%)

Cl.....	0.005	K.....	0.02
Fe.....	0.1	Na.....	0.05

Pack Size: 500g

Chromium Trioxide

CAS 1333-82-0
 $\text{CrO}_3 = 99.99$

U.N Number.....1463
 ADG Class.....5.1
 SUB.....8
 Packing Group.....II



157 Chromium Trioxide

UNIVAR

Description: dark red crystals or flakes; deliquescent.
 Assay.....98.0% min.

Maximum limit of impurities(%)

Insol.....	0.01	Al.....	0.03
Cl.....	0.005	Ba.....	0.03
NO_3	0.05	Fe.....	0.03
SO_4	0.005	Na.....	0.2

Pack Size: 500g, 5kg

158 Chromium Trioxide

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

SO_4	0.1	Na.....	0.3
Fe.....	0.05		

Pack Size: 500g

1333 Chromium Trioxide

TECHNICAL

Pack Size: 500g

Chromotrope 2R (C.I. 16570)

CAS 4197-07-3
 $\text{C}_{16}\text{H}_{10}\text{N}_2\text{Na}_2\text{O}_8\text{S}_2 = 468.4$

3193 Chromotrope 2R (C.I. 16570)

LABCHEM

Appearance: Dark brown, coarse powder
 Dye content: 85.0% min.
 Absorption maximum: 530 – 510nm

Pack size: 25g

Chromotropic Acid Sodium Salt

CAS 129-96-4

$C_{10}H_7NaO_8S_2 = 342.27$

982 Chromotropic Acid Sodium Salt

LABCHEM

Reagent for formaldehyde.
Sensitivity to HCHO 1 in 50000 minimum
Appearance: Grey-brown crystals.
Assay (titration) about 60%.

Pack Size: 25g

Cineole

CAS 470-82-6

$C_{10}H_{18}O = 154.25$

U.N Number.....1993

ADG Class.....3

Packing Group.....III



983 Cineole

UNILAB

Suitable for o-cresol determination.
Density.....about 0.92g/mL
R.I1.457-1.459
Assay.....98% min.
Freezing Point.....0 – 1.5°C

Maximum limit of impurities(%)

Aldehydes..... To pass test
Phellandrene..... To pass test

Pack Size: 100mL

Cinnamaldehyde

CAS 104-55-2

$C_9H_8O = 132.16$

984 Cinnamaldehyde

UNILAB

Appearance: Yellowish oily liquid having strong odour of cinnamon
Assay.....98.% min.

Pack size: 500mL

Cinnamic Acid

CAS 621-82-9

$C_6H_5CH:CHCOOH = 148.16$

985 Cinnamic Acid

UNILAB

Assay.....98.5% min.
M.P.132-136°C

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Pack Size: 500g

Citric Acid

CAS 5949-29-1

$\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O} = 210.14$

160 Citric Acid UNIVAR

Description: colourless crystals.

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.005

R.A.I..... 0.02

C_2O_4 0.05

Cl..... 0.001

PO_4 0.001

SO_4 0.002

Fe..... 0.0003

Pb..... 0.0002

Subs. carb. by hot H_2SO_4 passes test

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

161 Citric Acid, Monohydrate, low in lead UNIVAR

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.005

R.A.I..... 0.02

C_2O_4 0.05

Cl..... 0.001

PO_4 0.001

SO_4 0.002

Fe..... 0.0003

Pb..... 0.00005

Subs. carb. by hot H_2SO_4 To pass test

Conforms to ACS

Pack Size: 500g

162 Citric Acid, Monohydrate UNILAB

Description: colourless crystals or white crystalline powder;efflorescent.

Assay.....99.5 - 101.0%

H_2O7.5 - 9.0%

Maximum limit of impurities(%)

Sulph. ash..... 0.1

SO_4 0.0150

H.M. (as Pb)..... 0.0010

$\text{C}_2\text{O}_4\text{H}_2$ 0.0360

Readily carb. subs..... To pass test

Appearance of solution..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

911 Citric Acid, Monohydrate LABCHEM

Description: colourless crystals or white crystalline powder;efflorescent.

Assay.....98.0% min.

H_2O9.0% max.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.01

Pack Size: 500g

L-Citrulline

CAS 372-75-8
 $C_6H_{13}N_3O_3 = 175.19$

5890 L-Citrulline

UNILAB

Appearance: White crystalline powder
Assay.....99.% min.

Maximum limit of impurities(%)
L.O.D..... 0.3

Pack size: 25g

Clove Oil

CAS 8000-34-8

3194 Clove Oil

OP

Appearance: Colourless to pale yellow liquid
Density.....1.04g/mL

Pack size: 100g

Coatasil

U.N Number.....3032
ADG Class.....9
Packing Group.....III



2293 Coatasil, glass treatment solution

LABCHEM

2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane

Pack Size: 500mL

Cobalt 1000ppm Single Element ICP Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2666 Cobalt 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Cobalt standard, ready for use.
Co in 0.5% Nitric acid.

Pack Size: 100mL

Cobalt AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2633 Cobalt AAS Standard

SPECTROSOL

A 1000 ppm Cobalt standard, ready for use.
 Each mL contains 1.00+/-0.005mg of Co in 0.5% Nitric Acid

Pack Size: 500mL

Cobalt(II) Acetate

CAS 6147-53-1
 $(CH_3COO)_2Co \cdot 4H_2O = 249.09$

1334 Cobalt(II) Acetate

TECHNICAL

Assay.....97% min.

Pack Size: 500g

Cobalt(II) Chloride

CAS 7791-13-1
 $CoCl_2 \cdot 6H_2O = 237.93$

U.N Number.....3077
 ADG Class.....9
 Packing Group.....III



986 Cobalt(II) Chloride

UNIVAR

Description: dark red crystals or crystalline powder.
 Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol.....	0.01	Fe.....	0.001
NO ₃	0.01	Mg.....	0.005
SO ₄	0.005	Ni.....	0.1
NH ₄	0.005	K.....	0.01
Ca.....	0.005	Na.....	0.05
Cu.....	0.002	Zn.....	0.001

Conforms to ACS

Pack Size: 100g, 500g

163 Cobalt(II) Chloride

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Fe.....	0.025	Mg.....	0.008
Ni.....	0.12	Mn.....	0.055
Pb.....	0.005		

Pack Size: 100g, 500g, 5kg

1335 Cobalt(II) Chloride

TECHNICAL

Pack Size: 500g

Cobalt(II) NitrateCAS 10141-05-6
Co(NO₃)₂·6H₂O = 291.03U.N Number.....1477
ADG Class.....5.1
Packing Group.....II**164 Cobalt(II) Nitrate**

UNIVAR

Description: red deliquescent crystals.

Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol.....	0.01	Ni.....	0.15
Cl.....	0.002	Ca.....	0.005
SO ₄	0.005	Mn.....	0.005
Cu.....	0.002	Na.....	0.05
Pb.....	0.002	K.....	0.01
Fe.....	0.001	Mg.....	0.005
NH ₄	0.2	Zn.....	0.01

Conforms to ACS

Pack Size: 100g, 500g

165 Cobalt(II) Nitrate

UNILAB

Assay.....96.0% min.

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.01
SO ₄	0.03	Ni.....	0.3

Pack Size: 100g

Cobalt (II) OxideCAS 1308-06-01
Co₃O₄ =240.80**557 Cobalt (II) Oxide For determination of Sulphur**

UNILAB

Assay (by complexometry Co).....71% min.

Maximum limit of impurities(%)

Total Sulphur.....	0.001	Fe.....	0.01
Pb.....	0.001		

Pack Size: 100g

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

Cobalt(II) Sulphate

CAS 10124-43-3
 $\text{CoSO}_4 \cdot 7\text{H}_2\text{O} = 281.10$

U.N Number.....3077
 ADG Class.....9
 Packing Group.....III



988

Cobalt(II) Sulphate

UNIVAR

Description: red crystals or crystalline powder.

Assay.....99.0% min.
 pH.....(5% Soln.) 3.0 min

Maximum limit of impurities(%)

Insol.....	0.005	K.....	0.005
Cl.....	0.001	Mg.....	0.01
N cpds (as N).....	0.002	Na.....	0.01
Ca.....	0.005	Ni.....	0.005
Cu.....	0.001	Pb.....	0.001
Fe.....	0.0005	Zn.....	0.005

Pack Size: 100g, 3kg

1336

Cobalt(II) Sulphate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Cl.....	0.05	Pb.....	0.005
Fe.....	0.005	Zn.....	0.01
Ni.....	0.1		

Pack Size: 500g

Colchicine

CAS 64-86-8
 $\text{C}_{22}\text{H}_{25}\text{NO}_6 = 399.44$

U.N Number.....1544
 ADG Class.....6.1
 Packing Group.....I



2452

Colchicine (Inhibitor of microtubules by specific binding tubilin Used in research in plant genetics for doubling chromosomes)

LABCHEM

Assay.....98.5% min.

Maximum limit of impurities(%)

H_2O (KF).....1

Pack Size: 1g, 10g

Congo Red (CI 22120)

CAS 573-58-0
 $\text{C}_{32}\text{H}_{22}\text{N}_6\text{Na}_2\text{O}_6\text{S}_2 = 696.68$

2353

Congo Red (CI 22120)

LABCHEM

Adsorption & pH indicator.

Pack Size: 25g

Coomassie Brilliant Blue R250 (CI 42660)

CAS 6104-59-2

3195 Coomassie Brilliant Blue R250 (CI 42660)

OP

Stain for microscopy. Can be used as a protein stain in electrophoresis.

Pack Size: 25g

Copper 1000ppm Single Element ICP Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2636 Copper 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Copper standard, ready for use.
Cu in 0.5% Nitric acid.

Pack Size: 100mL

Copper AAS Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2602 Copper AAS Standard

SPECTROSOL

A 1000 ppm Copper standard, ready for use.
Each mL contains 1.00mg+/-0.005mg of Cu in 0.5% Nitric acid.

Pack Size: 500mL

Copper

CAS 7440-50-8
Cu = 63.54

3041 Copper, foil

UNIVAR

Description: bright reddish metal. 0.1 mm thick.
Assay.....99.8% min.

Maximum limit of impurities(%)

As.....	0.0002	Mn.....	0.005
Pb.....	0.05	Sb.....	0.005
Fe.....	0.005	Sn.....	0.005

Pack Size: 250g

1588 Copper Foil

TECHNICAL

Pack Size: 500g

Copper (METAL) Powder

452 Copper (METAL) Powder Electrolytic 99.5% UNIVAR

Assay (iodometric).....99.5% min.

Maximum limit of impurities(%)

Substances insoluble in HNO ₃	0.05	Fe.....	0.005
Sb.....	0.005	Mn.....	0.005
As.....	0.0002	Ag.....	0.005
Pb.....	0.05	Sn.....	0.005

Pack Size: 500g

1738 Copper Turnings TECHNICAL

Pack Size: 500g

Copper(II) Acetate

CAS 142-71-2
(CH₃COO)₂Cu.H₂O = 199.65

U.N Number.....3077
ADG Class.....9
Packing Group.....III



860 Copper(II) Acetate UNIVAR

Description: dark green transparent crystals, or crystalline powder.

Assay.....98.0 - 102.0%
pH (5% soln.).....5.0-5.5

Maximum limit of impurities(%)

Insol.....	0.01	Ca.....	0.005
Cl.....	0.003	Ni.....	0.01
SO ₄	0.01	K.....	0.01
Fe.....	0.002	Na.....	0.1

Pack Size: 500g

999 Copper(II) Acetate UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.01
SO ₄	0.04		

Pack Size: 500g

Copper(II) Carbonate Basic

CAS 12069-69-1
Approx. CuCO₃.Cu(OH)₂.H₂O

1003 Copper(II) Carbonate Basic UNILAB

Assay(as Cu).....54 - 57%

Maximum limit of impurities(%)

Cl.....	0.01	Na.....	0.5
SO ₄	0.05	Zn.....	0.05
Fe.....	0.02	Ni.....	0.1
Pb.....	0.005		

Pack Size: 100g, 500g

Copper(I) Chloride

CAS 7758-89-6
CuCl = 99.00

U.N Number.....2802
ADG Class.....8
Packing Group.....III



173 Copper(I) Chloride

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Substances not precipitated by H₂SO₄..... 2

SO₄..... 0.05

Fe..... 0.02

Pack Size: 500g

Copper(II) Chloride

CAS 10125-13-0
CuCl₂·2H₂O = 170.48

U.N Number.....2802
ADG Class.....8
Packing Group.....III



168 Copper(II) Chloride

UNIVAR

Description: bluish-green moist crystals.

Assay.....99% min.

pH (5% Soln.).....3.0 – 3.8

Maximum limit of impurities(%)

SO₄..... 0.005

As..... 0.0001

Ca..... 0.002

Fe..... 0.001

K..... 0.002

Mg..... 0.002

Na..... 0.002

Ni..... 0.005

Pb..... 0.004

Total N..... 0.004

Pack Size: 500g

169 Copper(II) Chloride

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

SO₄..... 0.03

Fe..... 0.005

As..... 0.0005

K..... 0.01

Ca..... 0.01

Mg..... 0.01

Na..... 0.01

NO₃..... 0.015

Pack Size: 500g

1004 Copper(II) Chloride

TECHNICAL

Total copper (approx).....35 - 37%

pH(5% Soln.).....3-4

Pack Size: 500g

Copper(I) Cyanide

CAS 544-92-3
CuCN = 89.56

U.N Number.....1587
ADG Class.....6.1
Packing Group.....II



1009 Copper(I) Cyanide

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)
SO₄..... 0.1

Pack Size: 500g

Copper (II) Hydroxide Carbonate (See Copper (II) Carbonate Basic Page 153)

Copper(I) Iodide

CAS 7681-65-4
CuI = 190.45

683 Copper(I) Iodide

LABCHEM

Assay.....98% min.

Maximum limit of impurities(%)
SO₄..... 0.1

Pack Size: 100G

Copper(II) Nitrate

CAS 19004-19-4
Cu(NO₃)₂ · 3H₂O = 241.60

U.N Number.....1477
ADG Class.....5.1
Packing Group.....II



770 Copper(II) Nitrate

UNIVAR

Description: hygroscopic, deep blue crystals with an irritating odour due to nitric acid.

Assay.....98 - 102.0%

Maximum limit of impurities(%)	
Ca..... 0.005	Ni..... 0.01
Cl..... 0.002	Zn..... 0.03
SO ₄ 0.01	Pb..... 0.001
Na..... 0.01	K..... 0.005
Fe..... 0.005	Mg..... 0.001

Pack Size: 500g

771 Copper(II) Nitrate

UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)	
Cl..... 0.02	SO ₄ 0.02

Pack Size: 500g, 5kg

Copper(I) Oxide

CAS 1317-39-1
Cu₂O = 143.09

1010 Copper(I) Oxide UNILAB

Assay.....	90.0% min.		
Maximum limit of impurities(%)			
Cl.....	1.5		
K.....	0.02	Na.....	0.3
Pack Size: 500g			

Copper(II) Oxide powder

CAS 1317-38-0
CuO = 79.55

1005 Copper(II) Oxide powder UNIVAR

Description: black powder.			
Assay.....	99.0% min.		
Maximum limit of impurities(%)			
Insol. (in dil. HCl).....	0.02	C cpds (as C).....	0.05
Cl.....	0.02	Subs. not pptd.....	0.2
		by H ₂ S (as SO ₄)	
Pack Size: 500g			

759 Copper(II) Oxide, Powder UNILAB

Description: Black Powder			
Assay.....	97% min.		
Maximum limit of impurities(%)			
Cl.....	0.3		
SO ₄	0.1	Fe.....	0.1
Pack Size: 500g, 5kg			

1006 Copper(II) Oxide Powder TECHNICAL

Pack Size: 500g

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Copper (II) Sulphate

CAS 7758-99-8
 $\text{CuSO}_4 \cdot 5\text{H}_2\text{O} = 249.68$

U.N Number.....3077
 ADG Class.....9
 Packing Group.....III



171 Copper (II) Sulphate UNIVAR

Description: blue crystals or crystalline powder.
 Assay.....98.0 - 102.0%

Maximum limit of impurities(%)	
Insol.....	0.005
Cl.....	0.001
N cpds (as N).....	0.002
Pb.....	0.005
Na.....	0.005
As.....	0.0001
K.....	0.001
Zn.....	0.03
Fe.....	0.003
Ca.....	0.005
Ni.....	0.005
Mg.....	0.002

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

772 Copper(II) Sulphate UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)	
Fe.....	0.05
(NH ₄) ₂ S metals.....	0.05
Other than Fe (as Ni) Pb.....	0.01
Cl.....	0.01

Pack Size: 500g, 5kg, 25kg

913 Copper (II) Sulphate LABCHEM

Assay.....97.0% min.

Maximum limit of impurities(%)	
Fe.....	0.02

Pack Size: 500g

1008 Copper(II) Sulphate TECHNICAL

Pack Size: 500g,3kg

Copper(II) Sulphate Anhydrous

CAS 7758-98-7
 $\text{CuSO}_4 = 159.60$

U.N Number.....3077
 ADG Class.....9
 Packing Group.....III



1007 Copper(II) Sulphate Anhydrous UNILAB

Assay.....99.0 - 101.0
 L.O.D. (@ 250°C).....1.0% max.

Maximum limit of impurities(%)	
Cl.....	0.015
Fe.....	0.015

Pack Size: 500g, 5kg, 25kg

Cotton Linters (See Cellulose Microcrystalline Page 131)

Cream Of Tartar (See Potassium Hydrogen Tartrate Page 354)

Creatine Monohydrate

CAS 6020-87-7

$C_4H_9N_3O_2 \cdot H_2O = 149.1$

992 Creatine Monohydrate

LABCHEM

Description: White crystalline powder

Solubility: Soluble in water and alcohol. Insoluble in ether, acetone, and chloroform.

Assay (on dry basis).....98.0% min.

pH (5% @ 25°C).....7 - 9

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Creatine (by fluorometry)..... 0.2

L.O.D..... 11.8 – 12.4

Cl..... 0.2

Pack size: 25G

Creatinine

CAS 57-00-1

$C_4H_9N_3O_2 = 131.1$

3042 Creatinine

UNIVAR

Description: White crystalline powder

Solubility: Soluble in water and alcohol. Insoluble in ether, acetone, and chloroform.

Assay (Non-aqueous titration).....99.8% min.

Maximum limit of impurities(%)

Fe..... 0.0005

SO₄..... 0.005

Pb..... 0.0005

Cd..... 0.0005

Cl..... 0.005

Na..... 0.005

Pack size: 25G

Creatinine Zinc Chloride

CAS 16045-72-0

3419 Creatinine Zinc Chloride (Standard for Creatinine determination)

LABCHEM

Assay.....99% min.

Pack Size: 10g

Spectroscopy Materials

SPECTROSOL

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: www.ajaxfinechem.com/Spectrosol

p-Cresol

CAS 106-44-5
 Synonym: 4-Methylphenol
 $C_7H_8O = 108.14$

U.N Number.....3455
 ADG Class.....6.1
 SUB.....8
 Packing Group.....II

**995 p-Cresol For Synthesis**

LABCHEM

Assay.....98% min.
 M.P.31 – 34°C

Pack Size: 500 mL

m-Cresol

CAS 108-39-4
 $C_6H_4(OH)CH_3 = 108.14$

U.N Number.....2076
 ADG Class.....6.1
 SUB.....8
 Packing Group.....II

**3044 m-Cresol**

OP

Assay(GC).....about 98%
 Congealing point.....about 11°C
 Density.....about 1.03g/mL
 B.R.200 – 203°C

Maximum limit of impurities(%)
 Non-vol..... 0.05

Pack Size: 1L

m-Cresol Purple

CAS 2303-01-7

2298 m-Cresol Purple

LABCHEM

pH indicator.

Pack Size: 5g

O-Cresol Red

CAS 1733-12-6

2297 O-Cresol Red

LABCHEM

pH indicator.

Pack Size: 5g

HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at www.ajaxfinechem.com/Unichrom

O-Cresolphthalein

CAS 596-27-0
 $C_{22}H_{18}O_4 = 346.4$

607 O-Cresolphthalein LABCHEM

Appearance: Light yellow crystalline powder
Assay.....98.0% min.
Melting point.....223 - 235°C

Pack size: 25g

O-Cresolsulphonphthalein-3,3 Bismethyliminodiacetic (See Xylenol Orange Page 479)

Crystal Violet (CI42555)

CAS 548-62-9
 $C_{25}H_{30}ClN_3 = 407.99$

3273 Crystal Violet (CI42555) OP

Indicator for non-aqueous titrations. Stain for microscopy.

Pack Size: 25g, 1kg

1820 Crystal Violet Stain Solution LABCHEM

0.5% in aqueous solution

Pack Size: 1L, 5L

Cupferron

CAS 135-20-6
Synonyms: N-nitroso-N-phenylhydroxylamine ammonium salts
As a reagent for separating Cu and Fe from other metals
As a reagent for determination of vanadates
 $C_6H_9N_3O_2 = 155.16$

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



167 Cupferron Suitable for colorimetric determination of Al UNIVAR

Assay (ex NH_4).....98% min.
M.P.153 - 155°C

Maximum limit of impurities(%)
Substances insoluble in H_2O 0.01
Sulphated ash..... 0.05

Suitability for the precipitation.To pass test of iron (III) ions

Pack Size: 25g, 100g

Cupric Acetate (See Copper (II) Acetate Page 153)

Cupric Carbonate Basic (See Copper (II) Carbonate Basic Page 153)

Cupric Chloride (See Copper (II) Chloride Page 154)

Cupric Nitrate (See Copper (II) Nitrate Page 155)

Cupric Oxide (See Copper (II) Oxide Powder Page 156)

Cuprone (See A-Benzoin Oxime Page 84)

Cuprous Chloride (See Copper (I) Chloride Page 154)

Cuprous Iodide (See Copper (I) Iodide Page 155)

Cuprous Oxide (See Copper (I) Oxide Page 156)

Cupric Sulphate (See Copper (II) Sulphate Page 157)

Curcumin

CAS 458-37-7

Synonym: Natural yellow 3

$C_{21}H_{20}O_6 = 368.39$

454

Curcumin C.I. 75300

LABCHEM

Assay (by acidimetry).....99% min.

M.P.170 – 180°C

Natural yellow 3 (Turmeric)

Pack Size: 10g

Cyanoacetic Acid

CAS 372-09-8

$NCCH_2COOH = 85.06$

U.N Number.....1759

ADG Class.....8

Packing Group.....III



1011

Cyanoacetic Acid

TECHNICAL

Assay.....99% min.

M.R.66-70°C

Maximum limit of impurities(%)

L.O.D (on H_2SO_4).....1

Pack Size: 250g

Cyanol (See Xylene Cyanol FF Page 477)

Cyanosine (See Phloxine B Page 334)

Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: www.ajaxfinechem.com/Univar

Cyclohexane

CAS 110-82-7
C₆H₁₂ = 84.16

U.N Number.....1145
ADG Class.....3
Packing Group.....II



588 Cyclohexane

SPECTROSOL

Density.....0.779 g/mL
M.P.6°C
B.P.80.7°C
Assay (GC).....99.5% min.
Acidity (mEq/g).....0.0005

FTIR Spectrum.....To Pass test

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.01
R.O.E..... 0.0005

Max. UV. Absorbance:

λ(nm)	220	230	240	250
Absorbance	0.30	0.1	0.05	0.01

Pack Size: 500mL, 2.5L GL

719 Cyclohexane

UNIVAR

Description: clear liquid; odour characteristic.
Assay.....99.0% min.
Colour (APHA).....10 max.
R.I. @ 20°C.....1.4250 – 1.4280

Maximum limit of impurities(%)

R.A.E..... 0.002
H₂O (K.F.)..... 0.02

Subs. darkened by H₂SO₄.....To pass test

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L

175 Cyclohexane

UNILAB

Density(@25°C).....about 0.77g/mL
B.R.(95% min.).....79 – 81°C
R.I. (a 25°C).....1.425 – 1.428

Maximum limit of impurities(%)

Non-vol..... 0.005

Pack Size: 500mL, 2.5L, 20L

Cyclohexanol

CAS 108-93-0
C₆H₁₂O = 100.16

176 Cyclohexanol

UNILAB

Density.....about 0.95 g/mL
F.P.18°C min.
Assay.....99% min.

Maximum limit of impurities(%)

Non-vol..... 0.05
Acidity (as CH₃COOH)..... 0.01

Water..... 0.2

Pack Size: 500mL, 2.5L

Cyclohexanone

CAS 108-94-1
C₆H₁₀O = 98.15

U.N Number.....1915
ADG Class.....3
Packing Group.....II



177

Cyclohexanone

UNILAB

Density.....about 0.94 g/mL
R.I1.448-1.450
Assay.....99.5% min.

Maximum limit of impurities(%)

Non-vol. 0.04
Acidity (as CH₃COOH)..... 0.03

H₂O (K.F.)..... 0.1

Pack Size: 2.5L, 20L

Cyclohexene

CAS 110-83-8
C₆H₁₀ = 82.15

U.N Number.....2256
ADG Class.....3
Packing Group.....II



1219

Cyclohexene

UNILAB

Density.....about 0.81 g/mL
Assay.....99% min.

Pack Size: 500mL

Cyclopentadine Dimer (See Dicyclopentadiene Page 173)

Cyclopentane

CAS 287-92-3
C₅H₁₀ = 70.14

U.N Number.....1146
ADG Class.....3
Packing Group.....II



684

Cyclopentane

UNILAB

Assay (Cyclopentane).....75.0% min.
Assay (C₅ and C₆ Hydrocarbons).....99.8% min.
Density.....0.751
Boiling Point.....50°C
R.I 1.4000

Pack size: 500mL

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

L-Cysteine Hydrochloride hydrate

CAS 7048-04-6

$\text{HSCH}_2\text{CH}(\text{NH}_2)\text{COOH}\cdot\text{HCl}\cdot\text{H}_2\text{O} = 175.64$

2377 L-Cysteine Hydrochloride hydrate

LABCHEM

Appearance: White crystals/powder.

Assay (dry basis).....98.5 - 101.5%

Spec. rotn. (c=8 (1N)HCl).....+5.5° to +7.1° (@ 25°C)

Maximum limit of impurities(%)

R.O.I..... 0.1

Fe..... 0.003

H.M.(as Pb)..... 0.001

SO_4 0.03

As..... 0.0001

Pack Size: 25g

L-Cystine

CAS 56-89-3

$\text{HOOCCH}(\text{NH}_2)\text{CH}_2\text{SSCH}_2\text{CH}(\text{NH}_2)\text{COOH} = 240.30$

3047 L-Cystine

UNIVAR

Appearance: white crystalline powder

Assay.....98.5% min.

Specific rotation.....about -210°

Maximum limit of impurities(%)

Cl..... 0.02

Pb..... 0.001

L.O.D..... 0.5

SO_4 0.03

R.O.I. (as SO_4)..... 0.1

Pack size: 100g

Decanoic Acid

CAS 334-48-5

$\text{CH}_3(\text{CH}_2)_8\text{CO}_2\text{H} = 172.27$

1332 Decanoic Acid

UNILAB

Assay.....96.0% min.

Pack size: 500mL

Dekalin

CAS 91-17-8

$\text{C}_{10}\text{H}_{18} = 138.25$

736 Dekalin

UNILAB

Assay (GC) (Cis & Trans).....99% min.

Maximum limit of impurities(%)

Water (KF)..... 0.1

Pack Size: 2.5L

Denatured Alcohol (See Methylated Spirits 95% Page 292)

AJAX Labware Detergent

U.N Number.....1760
 ADG Class.....8
 Packing Group.....II



7875 AJAX Labware Detergent

LABCHEM

This powerful detergent, which contains both anionic and cationic surfactants, has been specially developed to tackle the sometimes difficult but important job of thorough cleaning laboratory ware. It is specially formulated for manual cleaning, ultrasonic cleaning, and may be used in washing machines.

Contains 5% Potassium Hydroxide

Free of Phosphate, Chlorine, Enzymes, and EDTA.

Ajax Labware Detergent is completely biodegradable.

Pack Size: 5L

Devarda's Alloy Powder

CAS 8049-11-4

1014 Devarda's Alloy Powder (Reducing agent for determination of N₂ in Nitrate & Nitrites) Contains about 50% Cu, 45% Al, 5% Zn

UNILAB

Maximum limit of impurities(%)
 Total N..... 0.001

Pack Size: 100g

Dextrin White Powder

CAS 9004-53-9
 (C₆H₁₀O₅)_n x H₂O

2386 Dextrin White Powder

LABCHEM

Maximum limit of impurities(%)
 L.O.D. @110°C..... 5
 Sulphated ash..... 0.02
 Reducing sugar (as dextrose)..... 0.4

Pack Size: 500g

Dextrin Yellow

CAS 9004-53-9

2470 Dextrin Yellow

LABCHEM

Pack Size: 500g

Dextrose (See D-Glucose Anhydrous Page 213)

Diacetone Alcohol

CAS 123-42-2
 $(\text{CH}_3)_2\text{COHCH}_2\text{COCH}_3 = 116.16$

U.N Number.....1148
ADG Class.....3
Packing Group.....III



178 Diacetone Alcohol UNILAB

Assay.....99.0% min.
Colour (APHA).....25

Maximum limit of impurities(%)
Water.....0.15

Pack size: 500mL

Diacetyl Dioxime (See Dimethylglyoxime Page 182)

Diacetyl Monoxime

CAS 57-71-6
 $\text{C}_4\text{H}_7\text{NO}_2 = 101.11$

866 Diacetyl Monoxime UNIVAR

Appearance: white crystalline powder
Assay.....99.0% min
Melting point.....74 – 76°C

Maximum limit of impurities(%)
Sulphated Ash.....0.05

Store below 4°C

Pack size: 25g, 100g

Ethylene Glycol Monoethyl Ether (See 2-Ethoxyethanol Page 195)

N,N'-Diallyltartardiamide

CAS 58477-85-3
 $\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_4 = 228.25$

3416 N,N'-Diallyltartardiamide UNILAB

Appearance: white flakes
Assay.....99.0% min
Melting point.....183 – 186°C

Pack size: 25g

Diamant Fuchsin (See Fuchsin Basic Page 210)

1,4-Diaminobenzene (See P-Phenylenediamine Page 332)

1,2-Diaminocyclohexane Tetra Acetic Acid

CAS 482-54-2
 $C_{14}H_{22}N_2O_8 \cdot H_2O = 364.36$

2483 1,2-Diaminocyclohexane Tetra Acetic Acid

LABCHEM

Pack Size: 25g

1,6-Diaminohexane

CAS 124-09-4
 $NH_2(CH_2)_6NH_2 = 116.21$

U.N Number.....2280
 ADG Class.....8
 Packing Group.....III



2303 1,6-Diaminohexane

LABCHEM

Assay (GC).....99% min.
 M.R.41 - 43°C

Pack Size: 100g

1,2-Dibromoethane

CAS 106-93-4
 $C_2H_4Br_2 = 187.86$

U.N Number.....1605
 ADG Class.....6.1
 Packing Group.....I



1339 1,2-Dibromoethane

OP

Description: Clear colourless to faintly yellow coloured liquid.

Assay (GC).....>98.5%
 R.I. @ 20°C.....1.5375 – 1.5395

Maximum limit of impurities(%)
 Acidity (as HCl)..... 0.001

Pack Size: 1L

Dibutylamine

CAS 111-92-2
 $(CH_3(CH_2)_3)_2NH = 129.25$

U.N Number.....2248
 ADG Class.....8
 SUB.....3
 Packing Group.....II



1344 Dibutylamine

LABCHEM

Assay.....99.0% min.
 Colour (APHA).....15

Maximum limit of impurities(%)
 Water..... 0.3

Pack size: 2.5L

Di-Iso-Butyl Ketone

CAS 108-83-8
{(CH₃)₂CHCH₂}₂CO = 142.24

U.N Number.....1157
ADG Class.....3
Packing Group.....III



1341 Di-Iso-Butyl Ketone

UNILAB

Density.....about 0.81g/mL
B.R.(95% min.).....164 – 169°C

Maximum limit of impurities(%)
Non-vol..... 0.01

Pack Size: 2.5L, 20L

Di-n-Butyl Phthalate

CAS 84-74-2
C₆H₄(COOC₄H₉)₂ = 278.35

U.N Number.....3082
ADG Class.....9
Packing Group.....III



184 Di-n-Butyl Phthalate

UNILAB

Assay.....99.0% min.
Density.....1.043-1.048 g/mL
R.I.1.492 – 1.495

Maximum limit of impurities(%)
Sulph. ash..... 0.02 Acidity.....0.3 mmol H

Pack Size: 500mL

Di-n-Butyl Sulphide

CAS 544-40-1
{CH₃(CH₂)₃}₂S = 146.30

1033 Di-n-Butyl Sulphide

TECHNICAL

Density.....about 0.84g/mL
R.I.1.453
Assay.....97% min.
B.R.,185 – 188°C

Pack Size: 100mL

Di-n-Butylamine (See Dibutylamine Page 167)

Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards. Discover More: www.ajaxfinechem.com/Unipure

1,4-Dichlorobenzene

CAS 106-46-7

Synonyms: p-Dichlorobenzene

$C_6H_4Cl_2 = 147.00$

U.N Number.....3077

ADG Class.....9

Packing Group.....III



867

1,4-Dichlorobenzene For Synthesis

UNILAB

Assay.....99% Min.

M.P.52 – 56°C

Pack Size: 500g

1,2-Dichlorobenzene

CAS 95-50-1

$C_6H_4Cl_2 = 147.00$

U.N Number.....1591

ADG Class.....6.1

Packing Group.....III



804

1,2-Dichlorobenzene

OP

Assay.....98.0% min.

Boiling Point.....180°C

Density (g/mL) @ 25°C.....1.306

Dielectric constant @ 25°C.....9.93

R.I. (n₂₀^D).....1.5510

Viscosity (cps) @ 20°C.....1.324

Maximum limit of impurities(%)

Acidity (as HCl).....0.005

R.A.E.....0.005

Water.....0.1

Pack size: 1L

O-Dichlorobenzene (See 1,2-Dichlorobenzene Page 169)

P-Dichlorobenzene (See 1,4-Dichlorobenzene Page 169)

2,6-Dichloro-p-Benzoquinone-4-Chlorimine

CAS 101-38-2

$O:C_6H_2Cl_2:NCl = 210.45$

724

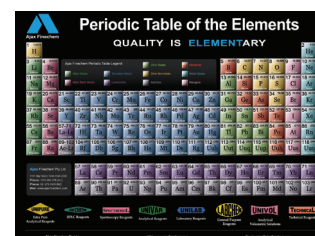
2,6-Dichloro-p-Benzoquinone-4-Chlorimine

LABCHEM

Pack Size: 5g

Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at www.ajaxfinechem.com/Marketing or email your request to sales@ajaxfinechem.com



1,2-Dichloroethane

CAS 107-06-2
CH₂ClCH₂Cl = 98.96

U.N Number.....1184
ADG Class.....3
SUB.....6.1
Packing Group.....II



249 1,2-Dichloroethane SPECTROSOL

Density.....1.252 g/mL
M.P.....-35°C
B.P.....83.5°C
Assay (GC).....99.8% min.
Acidity (mEq/g).....0.0005 max.

FTIR Spectrum.....To Pass test

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.01
R.O.E..... 0.0005

Max. UV. Absorbance:

λ(nm)	230	240	250	260
Absorbance	0.52	0.10	0.05	0.009

Pack Size: 500mL, 2.5L GL

741 1,2-Dichloroethane UNIVAR

Description: clear liquid with a characteristic odour.
Assay.....99.0% min.
Colour (APHA).....10 max.
R.I. (at 20°C).....1.4445 – 1.4455

Maximum limit of impurities(%)

R.A.E..... 0.002
Titratable acid.....0.03 mmol H

H₂O (K.F.)..... 0.03

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L, 200L

654 1,2-Dichloroethane UNILAB

Density.....about 1.25g/mL
B.R.(95% min.).....82-84°C

Maximum limit of impurities(%)

Non-vol..... 0.02
Acidity (as HCl)..... 0.01

H₂O (K.F.)..... 0.05

Pack Size: 500mL, 2.5L

1343 1,2-Dichloroethane TECHNICAL

Description: clear liquid with a characteristic odour.
Assay.....99% min.

Pack Size: 20L

2',7'-Dichlorofluorescein(CI 45365)

CAS 76-54-0

2442 2',7'-Dichlorofluorescein(CI 45365) LABCHEM

Adsorption indicator.

Pack Size: 5g

Dichloromethane

CAS 75-09-2
 $\text{CH}_2\text{Cl}_2 = 84.93$

U.N Number.....1593
 ADG Class.....6.1
 Packing Group.....III



3001 Dichloromethane GC

UNICHROM

Assay (by GC).....99.8% min.
 Stabilised with ~50 ppm amylene
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)
 Water (by coulometry)..... 0.05
 R.O.E..... 0.0005

Pack Size: 4L

2319 Dichloromethane

UNICHROM

Description: clear volatile liquid. Specially purified for HPLC
 Filtered through 0.45 micron filter

Assay (GLC).....99.5% min.
 Preservative Amylene

H_2O (by K.F.)..... 0.02

Maximum limit of impurities(%)
 Non-vol..... 0.001
 Acidity (as HCl)..... 0.001

U.V. Absorbance:
 λ (nm) 280 254 235
 Max. abs. 0.01 0.04 1.0

Pack Size: 2.5L

560 Dichloromethane

SPECTROSOL

Description: clear, volatile liquid. For U.V. spectroscopy.

R.I @ 20°C.....about 1.424.
 Density @ 25°C.....about 1.320 g/mL.
 Assay..... 99.5 min.
 Colour (APHA).....10 min.
 Preservative Cyclohexene

Maximum limit of impurities(%)
 R.A.E..... 0.002
 Titratable acid..... 0.0003

H_2O (K.F.)..... 0.02
 Free halogens..... passes test

Conforms to ACS

U.V. Absorbance:
 λ (nm) 235 240 250 260 340-400
 Max. abs. 1.00 0.35 0.10 0.04 0.01

Pack Size: 2.5L

Ajax Buffers & Solutions Guide

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Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

709 **Dichloromethane** UNIVAR

Description: clear, volatile liquid.
 Density @25°C.....about 1.320 g/mL
 R.I.about 1.424
 Assay (by GLC).....99.5% min.
 Colour (APHA).....10 max.
 Stabilizer Amylene

Maximum limit of impurities(%)	
R.A.E.....	0.002
Titratable acid.....	0.03 mmol H
H ₂ O (K.F.).....	0.02
Free halogens.....	To pass test
Al.....	0.00005
Ca.....	0.00005
Na.....	0.00005
Ba.....	0.00002
K.....	0.00002
Cd.....	0.000005
Pb.....	0.000005
Mg.....	0.000005
Cr.....	0.000002
Co.....	0.000002
Cu.....	0.000002
Mn.....	0.000002
Ni.....	0.000002
Sr.....	0.000002
Fe.....	0.00001
Zn.....	0.00001

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 200L

186 **Dichloromethane** UNILAB

Density.....about 1.32g/mL
 Assay.....99% min.

Maximum limit of impurities(%)
 Non-vol..... 0.01

Pack Size: 500mL, 2.5L

5113 **Dichloromethane HP** LABCHEM

Solvent for Histopathology

Pack Size: 10L

103 **Dichloromethane** LABCHEM

Assay.....98% min.
 Density (@20°C).....1.322-1.328

Pack Size: 200L

1355 **Dichloromethane** TECHNICAL

Density.....about 1.32g/mL

Pack Size: 2.5L

2,6-Dichloroindophenol Sodium Salt(See 2,6-Dichlorophenolindophenol Sodium Salt Page 173)

Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: www.ajaxfinechem.com/Univar

2,6-Dichlorophenolindophenol Sodium Salt

CAS 620-45-1

 $O:C_6H_2Cl_2:NC_6H_4ONa = 290.08$

655 2,6-Dichlorophenolindophenol Sodium Salt

UNIVAR

Redox indicator.
Suitable for ascorbic acid determinations.

Maximum limit of impurities(%)

Interfering dyes..... To pass test
L.O.D. (@120°C).....12.0
Transition EMF (@pH=0).....+0.67 V
Transition EMF (@pH=7).....+0.23 V
Colour change: Oxidized (blue) to reduced (colourless)
Conforms to ACS

Pack Size: 1g, 10g

2,4-Dichlorophenoxy Acetic Acid

CAS 94-75-7

 $C_8H_6Cl_2O_3 = 221.04$

U.N Number.....3345

ADG Class.....6.1

Packing Group.....III



1345 2,4-Dichlorophenoxy Acetic Acid

LABCHEM

Assay (by acidimetry).....98% Min.
M.P.134 – 137°C

Pack Size: 250g

515 2,4-Dichlorophenoxyacetic Acid

LABCHEM

Appearance: Light buff coloured crystalline powder
Assay.....98.0% min
Melting point.....134 – 138°C

Pack size: 100g, 500g

Dicyclopentadiene

CAS 77-73-6

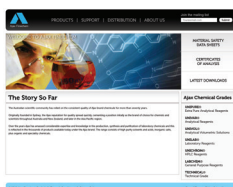
 $C_{10}H_{12} = 132.21$

3049 Dicyclopentadiene

UNILAB

Assay.....94% min.
Stabilizer 100 to 200ppm p-tert-butylcatechol

Pack size: 1L



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Diethanolamine

CAS 111-42-2
(HOCH₂CH₂)₂NH = 105.14

1019 Diethanolamine

UNILAB

Density.....about 1.10g/mL
Assay.....98.5 - 101.5%
F.P.....26°C min.

Maximum limit of impurities(%)
Sulph. ash..... 0.05

Pack Size: 500mL, 2.5L

Diethylamine

CAS 109-89-7
(C₂H₅)₂NH = 73.14

U.N Number.....1154
ADG Class.....3
SUB.....8
Packing Group.....II



189 Diethylamine

UNILAB

Density.....about 0.71g/mL
R.I.....about 1.385
Assay.....99.5% min.

Maximum limit of impurities(%)
Water..... 0.1

Pack Size: 500mL, 2.5L, 20L

Diethylene Glycol Monoethyl Ether (See Ethyldigol Page 197)

9, 10 -Dihydro-9-Oxoanthracene (See Anthrone Page 66)

1,2-Dihydroxybenzene (See Catechol Page 130)

1,8-Dihydroxynaphthalene-3,6-Disulphonic Acid Na (See Chromotropic Acid Sodium Salt Page 146)

3,5-Dihydroxytoluene (See Orcinol Monohydrate Page 316)

Dimethylketone (See Acetone Page 23)

DECT (See Silver Diethyl Dithiocarbamate Page 386)

Diethyldithiocarbamic Acid Silver Salt (See Silver Diethyl Dithiocarbamate Page 386)

Diethylcarbinol (See Iso-Amyl Alcohol Page 62)

N,N-Diethylethanamine (See Triethylamine Page 459)

Anaesthetic Ether (Diethyl Ether)

CAS 60-29-7
(C₂H₅)₂O = 74.12

U.N Number.....1155
ADG Class.....3
Packing Group.....I



2542 Anaesthetic Ether (Diethyl Ether)

UNILAB

Description: A clear, colourless, volatile, very mobile liquid; odour characteristic.

B.R.(100%).....34.0 - 35.0°C
Relative Density.....0.714-0.716 g/mL

Maximum limit of impurities(%)

Non-vol. matter..... 0.002
Acidity.....0.04 mmol H
Foreign odour.....To pass test

Acetone and aldehydes.....To pass test
Peroxides.....To pass test
H₂O..... 0.2

Chemical and physical parameters conform to BP
Store below 15°C

Pack Size: 500mL, 2.5L, 20L

266 Diethyl Ether

SPECTROSOL

Density.....0.714 g/mL
M.P.....-116°C
B.P.....34.4°C
Assay (GC).....99.5% min.
Acidity (mEq/g).....0.0005 max.

FTIR Spectrum..... To Pass test

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.02
R.O.E..... 0.001

Max. UV. Absorbance:

λ(nm)	230	250	260	270	280
Absorbance	0.40	0.13	0.05	0.022	0.009

Pack Size: 500mL, 2.5L GL

1725 Diethyl Ether

UNIVAR

Description: clear, volatile liquid with a characteristic odour. The vapours are heavier than air.

Density (@25°C).....about 0.710g/mL.
Assay.....98.0% min.
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.E..... 0.001
Titratable acid.....0.02 mmol H
Carbonyl (as HCHO)..... 0.001
Peroxide (as H₂O₂)..... 0.0001
Al..... 0.00001
Ca..... 0.00001
Na..... 0.00001
Zn..... 0.00001
Fe..... 0.00001
Ba..... 0.000002

Cd..... 0.000002
Cr..... 0.000002
Co..... 0.000002
Cu..... 0.000002
Mn..... 0.000002
Sr..... 0.000002
Ni..... 0.000002
Pb..... 0.000005
Mg..... 0.000005
K..... 0.000005

Conforms to ACS
Store below 15°C

Pack Size: 500mL, 2.5L, 20L, 145kg

1673 Diethyl Ether (Solvent Ether)

UNILAB

Description: clear, colourless, volatile liquid; odour, characteristic. Highly flammable; mixtures of its vapour with oxygen, air or nitrous oxide in certain concentrations are explosive.

B.R.(100%).....34 – 36°C
Density.....0.714 - 0.718g/mL

Maximum limit of impurities(%)

Non-volatile matter.....	0.002	Methanol.....	To pass test
Acidity.....	0.04 mmolH	Peroxide (as H ₂ O ₂).....	To pass test

Chemical and physical parameters conform to BP
Store below 15°C

Pack Size: 500mL, 2.5L, 20L, 145kg

1724 Diethyl Ether anhydrous

UNIVAR

Description: clear, volatile liquid with a characteristic odour. The vapours are heavier than air.

Assay.....99.0% min.
Colour (APHA).....10 max.
Density (@25°C).....0.7079g/mL max.

Maximum limit of impurities(%)

R.A.E.....	0.001	Foreign odour.....	To pass test
Titratable acid.....	0.0002 meq/g	Peroxide (as H ₂ O ₂).....	0.0001
Carbonyl (as HCHO).....	0.001	Subs. darkened by H ₂ SO ₄	To pass test
C ₂ H ₅ OH.....	0.05	H ₂ O (K.F.).....	0.03

Conforms to ACS
Store below 15°C

Pack Size: 500mL, 2.5L, 20L, 145kg

1743 Diethyl Ether low in peroxide

UNILAB

Description: clear, colourless, volatile liquid; odour, characteristic. Highly flammable, mixtures of its vapour with oxygen, air or nitrous oxide in certain concentrations are explosive.

Assay.....98% min
Density.....0.714-0.718 g/mL

Maximum limit of impurities(%)

Non-vol.....	0.002	Acetone & aldehyde.....	To pass test
Acidity.....	0.016 mmol H	Peroxide (as H ₂ O ₂).....	0.0001

Store below 15°C

Pack Size: 500mL, 2.5L, 20L

Diethyl Oxide (See Anaesthetic Ether Page 175)

1,4-Diethylene Dioxide (See 1-4-Dioxane Page 185)

Diethylene Ether (See 1-4-Dioxane Page 185)

Diethylene Glycol (See Digol Page 178)

Diethylene Glycol Monobutyl Ether (See Butyldigol Page 112)

Diethyl Malonate

CAS 105-53-3

Synonym: Ethyl Malonate

$C_7H_{12}O_4 = 160.17$

1023 Diethyl Malonate For Synthesis

LABCHEM

Assay.....99% min.

Density @ 20°C.....1.054 – 1.055

Pack Size: 500mL

Diethyl Phthalate

CAS 84-66-2

$C_{12}H_{14}O_4 = 222.24$

1025 Diethyl Phthalate For Synthesis

UNILAB

Assay.....99% min.

Density @ 20°C.....1.117 – 1.119

Pack Size: 500mL

Diethyl Sulphate

CAS 64-67-5

Synonym: Sulphuric Acid Diethyl Ester

$C_4H_{10}O_4S = 154.18$

U.N Number.....1594

ADG Class.....6.1

Packing Group.....II



1026 Diethyl Sulphate For Synthesis

LABCHEM

Assay.....>99%

Density @ 20°C.....1.175 – 1.179

Pack Size: 500mL

N,N-Diethyl-p-Phenylenediamine Sulphate

CAS 6283-63-2

$C_{10}H_{18}N_2O_4S = 262.33$

3295 N,N-Diethyl-p-Phenylenediamine Sulphate

UNIVAR

Assay (by acidimetry).....99% min.

M.P.184 – 187°C

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Fe..... 0.001

Sulphated ash..... 0.05

H₂O..... 0.5

Pack Size: 100g

Digol

CAS 111-46-6
(CH₂OHCH₂)₂O = 106.12

1027

Digol

UNILAB

Density.....about 1.12g/mL
R.I.about 1.447
B.R.(95% min.).....240 - 247°C

Maximum limit of impurities(%)
Sulph. ash..... 0.02

Pack Size: 2.5L, 200L

3,(3-4 Dihydroxy Phenyl)L-Alanine

CAS 59-92-7
Synonyms: L-DOPA; Levodopa
C₉H₁₁NO₄ = 197.19

450

3,(3-4 Dihydroxy Phenyl)L-Alanine Soluble acid and Alkalis

LABCHEM

Assay.....99% min.
M.P.~295°C

Pack Size: 5g

Dimedone

CAS 126-81-8
C₈H₁₂O₂ = 140.2

1028

Dimedone

LABCHEM

Appearance: white crystalline powder
Assay.....99.5% min
Melting point.....146 - 148°C

Maximum limit of impurities(%)
L.O.D.....1 Sulphated Ash..... 0.1

Pack size: 25g

1,2-Dimethoxyethane

CAS 110-71-4
Synonyms: Ethylene Glycol Dimethyl Ether
C₄H₁₀O₂ = 90.12

U.N Number.....2252
ADG Class.....3
Packing Group.....II



2291

1,2-Dimethoxyethane

LABCHEM

Peroxide.....>0.005%

Pack Size: 500mL

N,N-Dimethylacetamide

CAS 127-19-5
C₄H₉NO = 87.12

3051 N,N-Dimethylacetamide

LABCHEM

Assay(GLC).....99% min.

Pack Size: 500mL

Dimethylamine Solution 40%

CAS 124-40-3
C₂H₇N = 45.08

U.N Number.....1160
ADG Class.....3
SUB.....8
Packing Group.....II



1029 Dimethylamine Solution 40%

LABCHEM

Assay (by acidimetry).....40% min.

Density @ 20°C.....0.883 – 0.885

Pack Size: 500mL

4-Dimethylaminobenzaldehyde

CAS 100-10-7
(CH₃)₂NC₆H₄CHO = 149.19

194 4-Dimethylaminobenzaldehyde

UNIVAR

Suitable for hydrazine determinations.

Description: white or pale yellow crystalline powder.

Melting point.....73 – 75°C

Maximum limit of impurities(%)

R.A.I. 0.1

Solubility (in alc.) To pass test

Solubility (in HCl) To pass test

Colour of alc. soln..... 60 APHA

Colour of HCl soln..... passes test

Conforms to ACS

Pack Size: 25g, 100g, 500g

1348 4-Dimethylaminobenzaldehyde

UNILAB

Assay.....98% min.

M.R.72-75°C

Maximum limit of impurities(%)

Sulph. ash. 0.2

Pack Size: 100g

Dimethyl Ammonium Chloride

CAS 506-59-2
C₂H₈ClN = 81.55

453 Dimethyl Ammonium Chloride

UNILAB

Appearance: white crystals
Assay.....99.0% min
Melting point.....172 - 175°C

Pack size: 100g, 5Kg

Dimethylbenzene (See Xylene Page 478)

1,2-Dimethyl Benzene (See O-Xylene Page 479)

1,3-Dimethylbenzene (See M-Xylene Page 479)

1,4-Dimethyl Benzene (See P-Xylene Page 479)

2,2-Dimethylbutane, 98%

CAS 75-83-2
C₆H₁₄ = 86.18

3409 2,2-Dimethylbutane, 98%

LABCHEM

Assay.....98%

Pack Size: 500ml

Dimethylcarbinol (See Propan-2-ol Page 368)

Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



Summary of Ampoules available

Cat-No	Description	Cat-No	Description	Cat-No	Description
1366	Hydrochloric Acid 0.1M	1376	Silver Nitrate 0.1M	1378	Potassium Hydroxide 0.1M
1395	Oxalic Acid 0.05M	1377	EDTA 0.1M	1361	Potassium Permanganate 0.02M
1373	Sulphuric Acid 0.05M	1396	Iodine 0.01M	1386	Sodium Hydroxide 0.1M
1398	Ammonium Thiocyanate 0.1M	1359	Potassium Dichromate 1/60M	1388	Sodium Thiouphate 0.1M

N,N-Dimethylformamide

CAS 68-12-2
HCON(CH₃)₂ = 73.09

U.N Number.....2265
ADG Class.....3
Packing Group.....III



2540 N,N-Dimethylformamide

UNICHROM

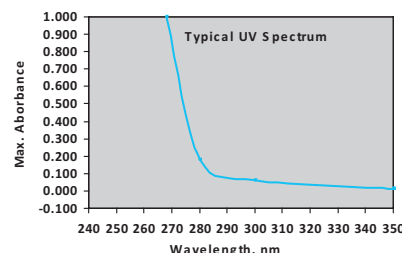
Description: clear liquid. Store at 4°C when not in use. Each bottle contains 25 mg molecular sieve 4A stabilizer.

Assay (GLC).....>99.5%
B.R.(100%) 20°C.....152.9 - 153.1°C
R.I. @25°C.....1.427
Viscosity @20°C.....0.90cps
Colour (APHA).....15 max.
Density (@ 25°C).....0.942 - 0.946 g/mL

Maximum limit of impurities(%)
R.A.E..... 0.005
Titratable acid..... 0.05 mmol H
Titratable base..... 0.3 mmol OH
H₂O..... 0.15
Foreign amines (with FDNB)..... To pass test

Suggested Applications:
Specially purified grade for HPLC. Filter before use.

Pack Size: 2.5L



UV Absorbance:				
λ(nm)	268	280	300	350
Max. abs.	1.00	0.16	0.06	0.01

2218 Dimethylformamide

SPECTROSOL

Description: clear liquid.
Density.....0.949 g/mL
M.P.-60°C
B.P.153°C
Assay (GC).....99.8% min.
Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)
Water (by Coulometry)..... 0.05
R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum..... To Pass test

Max. UV. Absorbance:					
λ(nm)	270	280	290	300	330
Absorbance	0.5	0.15	0.1	0.05	0.009

2217 N,N-Dimethylformamide

UNIVAR

Description: clear liquid.
Assay(GLC).....99.8% min.
Colour (APHA).....15 max.

Maximum limit of impurities(%)
R.A.E..... 0.005
Titratable acid..... 0.05 mmol H

Pack Size: 500mL, 2.5L, 20L

Titratable base..... 0.3 mmol OH
H₂O (K.F.)..... 0.15

231 N,N-Dimethylformamide

UNILAB

Density.....about 0.95g/mL
Assay.....99% min.
R.I.1.429 - 1.431

Maximum limit of impurities(%)
Non-vol..... 0.02

Pack Size: 2.5L, 20L

H₂O (K.F.)..... 0.2

Dimethylglyoxime

CAS 95-45-4

$\text{CH}_3\text{C}(:\text{NOH})\text{C}(:\text{NOH})\text{CH}_3 = 116.12$

197 Dimethylglyoxime

UNIVAR

Reagent for nickel.

Description: white crystalline powder.

M.P.about 240°C

Maximum limit of impurities(%)

R.A.I (Sulph. ash) 0.05

Insol. (in alc.) 0.05

Suitability for Ni detmn.....To pass test

Conforms to ACS

Pack Size: 25g, 100g, 500g

N,N-Dimethyl-p-Phenylenediamine

CAS 99-98-9

$(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{NH}_2 = 136.20$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



2448 N,N-Dimethyl-p-Phenylenediamine

LABCHEM

Assay (GC).....98% min.

M.P.35 – 38°C

Pack Size: 25g

2,6-Dimethylpentan-4-One (See Diisobutyl Ketone Page 168)

2,9 Dimethyl-1-10-Phenanthroline Hydrochloride hydrate(See Neocuproine Hydrochloride Hydrate Page 301)

2,3-Dimethyl-1-Phenyl-3-Pyrazolin (See Antipyrine Page 69)

Dimethyl Phthalate

CAS 131-11-3

Synonym: DMP

$\text{C}_{10}\text{H}_{10}\text{O}_4 = 194.19$

687 Dimethyl Phthalate For Synthesis

UNILAB

Assay.....99% min.

Density @ 20°C.....1.188 – 1.190

Pack Size: 500mL

Dimethyl Popop Scintillation Grade

CAS 3073- 87-8
 $C_{26}H_{20}N_2O_2 = 392.46$

746 Dimethyl Popop Scintillation Grade LABCHEM

Assay.....99% min.
 M.P.234 – 235°C

Pack Size: 5g, 25g

Dimethyl Sulphate

CAS 77-78-1
 $(CH_3)_2SO_4 = 126.13$

U.N Number.....1595
 ADG Class.....6.1
 SUB.....8
 Packing Group.....I



1031 Dimethyl Sulphate For Synthesis LABCHEM

Assay.....99% min.

Pack Size: 500mL

Dimethyl Sulphide

CAS 75-18-3
 $(CH_3)_2S = 62.13$

U.N Number.....1164
 ADG Class.....3
 Packing Group.....II



1032 Dimethyl Sulphide LABCHEM

Density.....about 0.85g/mL

Pack Size: 100mL

Dimethylsulphoxide

CAS 67-68-5
 $(CH_3)_2SO = 78.12$

262 Dimethylsulphoxide SPECTROSOL

Density.....1.100 g/mL
 M.P.18°C
 B.P.189°C
 Assay (GC).....99.5% min.
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)
 Water (by Coulometry)..... 0.05
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum.....To Pass test

Max. UV. Absorbance:				
λ (nm)	300	330	340	350
Absorbance	0.10	0.05	0.022	0.009

2225 **Dimethyl Sulphoxide** UNIVAR

Description: clear, colourless liquid.

Appearance: APHA 10 max.

Assay.....99.0% min.

Density (@ 25°C).....1.092 g/mL min.

Maximum limit of impurities(%)

R.A.E. 0.01

H₂O..... 0.1

Titrateable acid..... 0.001 meq/g

Pack Size: 500mL, 2.5L, 25L

747 **Dimethyl Sulphoxide** UNILAB

Density.....about 1.10g/mL

F.P.....18°C

Maximum limit of impurities(%)

Non-vol..... 0.05

H₂O..... 1.0

Pack Size: 500mL, 2.5L, 20L

1,3-Dinitrobenzene

CAS 99-65-0
C₆H₄N₂O₄ = 168.11

U.N Number.....3443

ADG Class.....6.1

Packing Group.....II



1034 **1,3-Dinitrobenzene (For determination of 17-Ketosteroids)** LABCHEM

Assay.....99% min.

M.P.....89 – 90°C

Maximum limit of impurities(%)

Sulphated ash..... 0.1

Pack Size: 25g

2,4-Dinitrophenylhydrazine

CAS 119-26-6
(NO₂)₂C₆H₃NHNH₂ = 198.14

U.N Number.....1325

ADG Class.....4.1

Packing Group.....II



199 **2,4-Dinitrophenylhydrazine** UNIVAR

Reagent for aldehydes and ketones.

Description: orange-red crystalline powder. Moistened with water. The specification applies to dry material.

Assay.....99.0% min.

Pack Size: 25g, 100g

3,5-Dinitrosalicylic Acid

CAS 609-99-4
 $C_7H_4N_2O_7 = 228.12$

1039 3,5-Dinitrosalicylic Acid (Reagent or obtaining molar reducing value for maltodextrines and for the colorimetric determination of amylase) UNILAB

Assay.....98% min.
 M.P.169 – 170°C
 Function test:
 Suitability as reagent for. To pass test
 determination of amylase activity

Pack Size: 25g

1,4 – Dioxane

CAS 123-91-1
 $(CH_2)_4O_2 = 88.11$

U.N Number.....1165
 ADG Class.....3
 Packing Group.....II



1347 1,4 – Dioxane UNIVAR

Assay.....99.0% min.
 Boiling Point.....100 - 102°C
 Density (@ 25°C).....1.034
 Dielectric Constant (@ 20°C).....2.25
 Freezing Point.....11°C min.
 R.I. (n₂₀^o/D).....1.4220
 Viscosity (@ 20°C).....1.54cps
 Colour (APHA).....20

Maximum limit of impurities(%)

Carbonyl (as HCHO)..... 0.01
 Peroxides (as H₂O₂)..... 0.005
 R.A.E..... 0.005

Titration acid..... 0.0016 meq/g
 H₂O..... 0.05

Pack size: 2.5L

Diphenylamine

CAS 122-39-4
 $C_{12}H_{11}N = 169.22$

U.N Number.....3077
 ADG Class.....9
 Packing Group.....III



1041 Diphenylamine (Reagent for Nitrate) UNIVAR

Assay.....99% min.
 Sensitivity to nitrate (NO₃).....1:1600000 min.

Maximum limit of impurities(%)

Insoluble matter..... 0.01
 Sulphated ash..... 0.02

NO₃..... No reaction
 Aniline (C₆H₅.NH₂)..... 0.01

Pack Size: 100g

868

Diphenylamine

UNILAB

Appearance: white crystalline powder

Assay.....98.0% min

Maximum limit of impurities(%)

L.O.D.....0.3

Sulphated Ash.....0.03

Fe.....0.001

Pack size: 500g, 5Kg

Diphenylamine-2-Carboxylic Acid (See N-Phenylanthralinic Acid Page 331)**Diphenylamine-4-Sulphonic Acid Barium Salt** (See Barium Diphenylamine-4-Sulphonate Page 78)**Diphenylcarbazine**

CAS 140-22-7

CO(NHNHC₆H₅)₂ = 242.28

3054

Diphenylcarbazine

LABCHEM

Adsorption indicator.

Assay (HPLC).....98% min.

M.P.173 – 176°C

Maximum limit of impurities(%)

Insol. in aqueous Acetone To pass test

Sulph. ash.0.05

Sensitivity to chromates. To pass test

Pack Size: 10g

Diphenylcarbazine

CAS 538-62-5

C₆H₅NHNHCONNC₆H₅ = 240.26

U.N Number.....1325

ADG Class.....4.1

Packing Group.....III



1353

Diphenylcarbazine

LABCHEM

Reagent for mercury.

M.P.153°C -157°C

Maximum limit of impurities(%)

Sulph Ash.0.1

Suitability for det.of Hg. To pass test

Pack Size: 25g

Diphenyl Ketone (See Benzophenone Page 84)**2,5-Diphenyloxazole** (See PPO Scintillation Grade Page 340)**Diphenylthiocarbazine** (See Dithizone Page 188)

Di-Iso-Propyl Ether

CAS 108-20-3
 $\{(CH_3)_2CH\}_2O = 102.18$

U.N Number.....1159
 ADG Class.....3
 Packing Group.....II



1356 Di-Iso-Propyl Ether

UNILAB

Assay.....96% min.
 Density.....about 0.723 – 0.726 g/mL
 B.R. (95% min).....66 – 69°C
 R.I1.3660 – 1.3700

Maximum limit of impurities(%)

Non Vol..... 0.005
 Water..... 0.5

Peroxides (as H_2O_2)..... 0.003%

Pack Size: 2.5L

Dipropylene Glycol

CAS 25265-71-8
 $HOC_3H_6OC_3H_6OH = 134.18$

1331 Dipropylene Glycol

UNILAB

Assay.....99.0% min.

Pack size: 500mL, 1L

2,2'-Dipyridyl (See 2-2-Bipyridyl Page 90)

2,2'-Diquinolyl (See 2,2'-Biquinoline Page 90)

Direct Blue 53 (See Evans Blue Page 203)

Direct Yellow 9 (See Titan Yellow Page 452)

Di-Sodium Phenyl Phosphate (See Phenyl Disodium Orthophosphate Page 333)

Disodium Succinate Hexahydrate

CAS 6106-21-4
 $C_4H_4Na_2O_4 \cdot 6H_2O = 270.14$

432 Disodium Succinate Hexahydrate (Substrate for investigation of the respiratory enzyme system)

LABCHEM

Assay ($HClO_4$ titration on.....99% min.
 anhydrous substance)

Maximum limit of impurities(%)

H_2O 38 – 40%

Pack Size: 500g

Dithio-Oxamide

CAS 79-40-3
(CSNH₂)₂ = 120.20

2484 Dithio-Oxamide

UNILAB

Reagent for Bi and Cu.
Assay.....98% min.

Maximum limit of impurities(%)
Suitability for Cu detn.....To pass test

Pack Size: 25g

Dithizone

CAS 60-10-6
C₆H₅N:NCSNHNHC₆H₅ = 256.32

208 Dithizone

UNIVAR

Reagent for Hg, Pb, Zn. Metal indicator.
Assay.....98.0% min.
Ratio of Absorbances.....1.55 min

Maximum limit of impurities(%)
H.M. (as Pb)..... 0.002 Sulphated ash..... 0.3

Pack Size: 5g

DL Mandelic Acid

CAS 90-64-2
C₈H₈O₃ = 152.15

3072 DL Mandelic Acid

LABCHEM

ASSAY (by acidimetry).....>99%
M.P.116 – 120°C

Pack Size: 250g

DMP (See Dimethyl Phthalate Page 182)

DMSO (See Dimethyl Sulphoxide Page 183)

DNP (See 2-4-Dinitrophenylhydrazine Page 184)

1-Dodecanesulphonic Acid, Sodium Salt

CAS 2386-53-0
 $\text{CH}_3(\text{CH}_2)_{11}\text{SO}_3\text{Na}$ = 272.38

1354 1-Dodecanesulphonic Acid, Sodium Salt

UNICHROM

Assay.....99.0%

Optical Absorbance of 5% solution:

210nm.....0.05

220nm.....0.03

230nm.....0.02

Pack size: 10g

Dodecanoic Acid (See Lauric Acid Page 250)

DPC (See N-Phenylanthralinic Acid Page 331)

D.P.X. Neutral Mounting Medium

CAS 1330-20-7

U.N Number.....1993

ADG Class.....3

Packing Group.....II



3197 D.P.X. Neutral Mounting Medium

OP

Refractive index (n 20/D).....1.518 – 1.521

Viscosity (20°C).....600 – 700 mPa.s

Suitability for microscopy.....To pass test

Pack Size: 100mL, 500mL

Drierite

CAS 7778-18-9
 CaSO_4 = 136.14

2497 Drierite, Indicating, 10-20 mesh

LABCHEM

Calcium sulphate for drying - 10-20 mesh Colour change: Blue(active) to rose-red(exhausted)

Drying capacity, 10-14% w/w

Pack Size: 500g

Drierite

CAS 7778-18-9
 CaSO_4 = 136.146

2496 Drierite, Indicating, 8 mesh

LABCHEM

Description: Calcium sulphate for drying - 8 mesh Colour change: blue(active) to rose-red(exhausted)

Pack Size: 500g, 5kg

Ecoteric T20

CAS 9005-64-5

2509 Ecoteric T20

LABCHEM

Yellow- to amber- coloured liquid.

Hydroxyl value.....96 - 108mg KOH/g

Saponification value.....40-50mg KOH/g

Maximum limit of impurities(%)

Water.....3

Acid Value.....2.0

Pack Size: 500mL

Ecoteric T80

CAS 9005-65-6

2510 Ecoteric T20

LABCHEM

Polyoxyethylene (20) sorbitan mono-oleate.

Yellow liquid.

Acid Value (max).....2.2mg KOH/g

Density.....1.08 g/mL approx.

HLB.....15.

Saponification Value.....45.0 – 55.0mg KOH/g

Hydroxyl Value.....65.0 – 80.0mg KOH/g

Maximum limit of impurities(%)

R.O.I.....0.25

H₂O.....3.0

H.M.....0.0010

Dioxane.....10ppm

Pack Size: 500mL, 20L

EDB (See 1-2-Dibromoethane Page 167)

Ehrlich'S Reagent (See 4-Dimethylaminobenzaldehyde Page 179)

Eosin B

CAS 548-24-3

C₂₀H₆Br₂Na₂N₂ = 624.05

3055 Eosin B

UNILAB

Appearance: very dark purple-red to dark brown cryst. powder

Dye content:.....>85% max.

Absorption maximum:.....511 – 520nm

Absorption Ratio:.....P-15/P+15 0.96 – 1.22

Pack size: 25g

Eosin

U.N Number.....1170

ADG Class.....3

Packing Group.....II


1824 **Eosin, Alcoholic Stain** LABCHEM

1% in Ethanol

Pack Size: 1L, 5L

1823 **Eosin Aqueous Stain** LABCHEM

1% in aqueous solution

Pack Size: 1L, 5L

Eosin Yellowish

CAS 17372-87-1

3199 **Eosin Yellowish, Water and alcohol soluble (CI45380)** OP

Stain for microscopy.
Adsorption & fluorescent indicator.

Pack Size: 25g, 1kg

Epsom Salt (See Magnesium Sulphate Hydrated Page 267)

Eriochrome Black T (CI 14645)

CAS 1787-61-7

3200 **Eriochrome Black T (CI 14645)** OP

Stain for microscopy. Metal indicator.

Pack Size: 25g

Eriochrome Blue Black R (CI 15705)

CAS 2538-85-4

2475 **Eriochrome Blue Black R (CI 15705)** LABCHEM

Metal indicator.

Pack Size: 100g

Erythrosine B For Microscopy(CI 45430)

CAS 16423-68-0

Synonym: Acid Red 51; tetraiodo fluorescein, disodium salt

$C_{20}H_6I_4Na_2O_5 = 879.84$

3201 Erythrosine B For Microscopy(CI 45430)

OP

Description: Dark red powder, water soluble
Absorption.....524 – 527nm max.

Pack Size: 25g

Esbach'S Reagent

CAS 2538-85-4

728 Esbach'S Reagent For Detection Of Proteins

LABCHEM

Pack Size: 125 mL

Ethanedioic Acid Dihydrate (See Oxalic Acid Page 318)

Ethanediol

CAS 107-21-1

$CH_2OHCH_2OH = 62.07$

210 Ethanediol

UNILAB

Assay.....99.5%min
Density.....1.112 – 1.115g/mL
R.I.1.431 –1.432

Maximum limit of impurities(%)

Sulph. ash. 0.01

Acidity.0.1 mmol H

Total chlorine (as Cl)..... 0.006

SO₄..... 0.005

Pack Size: 500mL, 2.5L, 20L

Ethanethioamide (See Thioacetamide Page 447)

Ethanoic Anhydride (See Acetic Anhydride Page 22)

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

Ethanol

CAS 64-17-5
C₂H₅OH = 46.07

U.N Number.....1170
ADG Class.....3
Packing Group.....II



214

Ethanol, Absolute

UNIVAR

Description: clear liquid with a mild characteristic odour; hygroscopic.

Assay.....99.5% v/v min.
Colour (APHA).....10 max.
Density (@ 25°C).....0.7876g/mL max.

Maximum limit of impurities(%)

R.A.E.,Acetone..... 0.001
Titratable acid..... 0.0005 meq/g
Titratable base..... 0.0002 meq/g
Na..... 0.0001
Sol.in H₂O..... passes test
Methanol..... 0.1
Propan-2-ol..... 0.003
H₂O..... 0.2
Reaction to KMnO₄,H₂SO₄ (each)..... passes test
Ca..... 0.00005
Al..... 0.00001
K..... 0.00001

Cu..... 0.00001
Fe..... 0.00001
Zn..... 0.00001
Mg..... 0.00001
Ba..... 0.000002
Cr..... 0.000002
Co..... 0.000002
Mn..... 0.000002
Ni..... 0.000002
Sr..... 0.000002
Cd..... 0.000005
Pb..... 0.000005

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

1045

Ethanol Absolute

UNILAB

Assay.....99.5% v/v min.
B.R. (95% min.).....77 – 79°C
Density.....0.7935 g/mL max.
R.I.....1.360 – 1.363

Maximum limit of impurities(%)

Non-vol..... 0.01
Acidity or alkalinity..... 0.1 mmol H or OH

CH₃OH..... 0.1
H₂O..... 0.6

Pack Size: 500mL, 2.5L, 20L, 200L

914

Ethanol Absolute

LABCHEM

Assay.....99.0% v/v min.
Density(@25°C).....0.79 g/mL max.

Pack Size: 500ML, 2.5L

5077

Ethanol Absolute HP

LABCHEM

Solvent for Histopathology

Pack Size: 10L, 20L

Ethanol 96%

CAS 64-17-5
C₂H₅OH = 46.07

U.N Number.....1170
ADG Class.....3
Packing Group.....II



1046 Ethanol 96%

UNIVAR

Description: clear liquid with a mild, characteristic odour.
Assay.....96.0% v/v min.
Colour (APHA).....10 max
Density (@ 25°C).....0.807g/mL max.

Maximum limit of impurities(%)

R.A.E.,Acetone..... 0.001
Titratable acid..... 0.05 mmol H
Titratable base..... 0.02 mmol OH
Na..... 0.0001
Ca..... 0.00005
Methanol..... 0.1
Propan-2-ol..... 0.003
Sol.in H₂O,Fusel oil (each).....To pass test
Subs. red. KMnO₄.....To pass test
Subs. darkened by H₂SO₄.....To pass test
Al..... 0.00001
K..... 0.00001
Fe..... 0.00001

Zn..... 0.00001
Ba..... 0.000002
Cr..... 0.000002
Co..... 0.000002
Cu..... 0.000002
Mn..... 0.000002
Ni..... 0.000002
Sr..... 0.000002
Cd..... 0.000005
Pb..... 0.000005
Mg..... 0.000005
Volatile Impurities..... To pass test
Benzene..... 0.0002

Chemical and physical parameters conform to BP and FCC
Conforms to ACS

Pack Size: 500mL, 2.5L, 20L, 200L

1047 Ethanol 96%

UNILAB

Description:A clear liquid with a mild characteristic odour.
Assay.....96.0% v/v min.
Density (@ 25°C).....0.8096 g/mL max.

Maximum limit of impurities(%)

Non-vol..... 0.005
Clarity of soln.....clear
Acidity or alkalinity..... 0.1 mmol H or OH
Aldehydes (as CH₃COH)..... 0.0010

Benzene (C₆H₆)..... 0.0005
Subs.red.KMnO₄.....To pass test
Volatile impurities..... To pass test

Pack Size: 500mL, 2.5L, 5L, 20L, 200L

5004 Ethanol 95%

HP

Solvent for Histopathology

Pack Size: 10L, 20L

5078 Ethanol 100 IMS

HP

Solvent for Histopathology

Pack Size: 10L, 20L

726 Ethanol 70% w/w (80% v/v)

LABCHEM

Pack Size: 20L

Ethanolamine

CAS 141-43-5
 $\text{CH}_2\text{OH}\cdot\text{CH}_2\text{NH}_2 = 61.08$

U.N Number.....2491
 ADG Class.....8
 Packing Group.....III



26

Ethanolamine

UNILAB

Density.....about 1.02g/mL
 F.P.about 10.5°C
 Assay.....97.0% min.
 R.I.1.453 – 1.455

Maximum limit of impurities(%)
 Sulph. ash. 0.05
 H_2O 0.6
 Store above 10°C

Pack Size: 500mL, 2.5L, 20L

2-Ethoxyethanol

CAS 110-80-5
 $\text{C}_2\text{H}_5\text{OCH}_2\text{CH}_2\text{OH} = 90.12$

U.N Number.....1171
 ADG Class.....3
 Packing Group.....III



211

2-Ethoxyethanol

UNILAB

Density.....about 0.93g/mL
 Assay(GC).....99.0% min.

Maximum limit of impurities(%)
 H_2O 0.2

Pack Size: 500mL, 2.5L, 20L

Ethyl Acetate

CAS 141-78-6
 $\text{CH}_3\text{COOC}_2\text{H}_5 = 88.11$

U.N Number.....1173
 ADG Class.....3
 Packing Group.....III



259

Ethyl Acetate

SPECTROSOL

Density.....0.901 g/mL
 M.P.-83°C
 B.P.77.1°C
 Assay (GC).....99.8% min.
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)
 Water (by Coulometry)..... 0.02
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum.....To Pass test

Max. UV. Absorbance:

λ (nm)	260	270	280
Absorbance	0.12	0.022	0.009

Ethyl Benzoate

CAS 93-89-0
 $C_6H_5COOC_2H_5 = 150.18$

3057 Ethyl Benzoate

OP

Density.....about 1.047 g/mL.
 R.I.1.505
 B.R.211-213°C
 Assay.....99% min.

Pack Size: 500g

Ethyl Carbamate

CAS 51-79-6
 $C_3H_7NO_2 = 89.09$

1051 Ethyl Carbamate

LABCHEM

Assay.....99 - 101%
 M.R.48 - 50°C

Maximum limit of impurities(%)

Sulph Ash. 0.1
 H_2O (K.F). 1.0

H.M (as Pb)..... 0.001
 Cl. 0.001

Pack Size: 500g

Ethyldigol

CAS 111-90-0
 $CH_3CH_2OCH_2CH_2OCH_2CH_2OH = 134.18$

1360 Ethyldigol

UNILAB

Density.....about 0.99g/mL
 R.I.about 1.427

Maximum limit of impurities(%)

H_2O 0.2

Pack size: 2.5L

Ethyl Bromide (See Bromoethane Page 99)

Ethyl Di-Icinol (See Ethyldigol Page 197)

Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

Ethylenediaminetetra-Acetic Acid (EDTA)

CAS 60-00-4
 $C_{10}H_{16}N_2O_8 = 292.25$

663 Ethylenediaminetetra-Acetic Acid UNIVAR

Description: colourless crystals or a white crystalline powder.
Assay.....99.4 - 100.6%

Maximum limit of impurities(%)	
Insol. (dil. NH_4OH).....	0.005
R.A.I.....	0.2
Nitrilotriacetic acid.....	0.1
Ca.....	0.001
Fe.....	0.005
H.M. (as Pb).....	0.001
Mg.....	0.0005

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 10kg

179 Ethylenediaminetetra-Acetic Acid [EDTA] UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)	
Sulph. ash.....	0.5
H.M. (as Pb).....	0.01

Pack Size: 500g, 5kg

Ethylenediaminetetraacetic Acid (EDTA) Ferric Monosodium Salt

CAS 15708-41-5
 $C_{10}H_{12}FeN_2NaO_8 = 367.05$

2308 Ethylenediaminetetraacetic Acid (EDTA) Ferric Monosodium Salt LABCHEM

Appearance: Brown-coloured crystalline powder
Assay.....99.0% min.

Maximum limit of impurities(%)	
Fe.....	0.001
H.M. (as Pb).....	0.001
L.O.D.....	1.0
Sulphated ash.....	0.1

Pack Size: 100g, 5kg

EDTA Di-Potassium Salt

CAS 2001-94-7
 $C_{10}H_{14}O_8N_2K_2 \cdot 2H_2O = 404.46$

2406 EDTA Di-Potassium Salt LABCHEM

Assay.....98% min.

Pack Size: 100g

Ethylenediaminetetra-Acetic Acid [EDTA] di-sodium salt

CAS 6381-92-6

 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O = 372.24$

180 Ethylenediaminetetra-Acetic Acid [EDTA] di-sodium salt UNIVAR

Description: white crystalline powder.

Assay.....99.0 - 101.0%

pH (5% soln. @ 25°C).....4.0 – 6.0

Maximum limit of impurities(%)

Insol..... 0.005

Nitrilotriacetic acid..... 0.1

H.M. (as Pb)..... 0.005

Ca..... 0.002

Cu..... 0.0001

Fe..... 0.0005

Pb..... 0.0005

Ni..... 0.0005

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

181 EDTA di-Sodium salt UNILAB

Assay.....98% min.

pH.....(5% soln.) 4.0 – 6.0

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.05

Pack Size: 500g, 5kg, 25kg

183 EDTA di-Sodium salt LABCHEM

Description: Odourless free-flowing white powder.

Assay via Fe-Pot %.....99% min.

pH (1% soln.).....4.0 – 5.0

Pack Size: 25kg

2222 EDTA di-Sodium Salt 0.050M Solution UNIVOL

Stabilized with sodium azide.....0.01%.

Molarity.....0.0500 +/- 0.0005M

Pack Size: 2.5L

727 EDTA Disodium Salt 0.1000m Solution UNIVOL

Stabilized with sodium azide.....0.01%.

Molarity.....0.0995 - 0.1005mol/L

Pack Size: 6X1L, 2.5L

1377 Ethylenediaminetetraacetic Acid (EDTA), di-Sodium Salt 0.1mol Concentrate, Ampoule OP

Description: plastic ampoule containing clear colourless liquid0.1 mole (37.22g $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$) to prepare 1L of 0.1M solution

Titer.....0.998 – 1.002

Pack size: Ampoule

EDTA Tetra-Sodium Salt Hydrate

CAS 64-02-8
 $\{\text{CH}_2\text{N}(\text{CH}_2\text{COONa})_2\}_2 + \text{aq}$

182 EDTA Tetra-Sodium Salt Hydrate

UNILAB

pH (5% soln.).....about 11.5
Assay.....about 98.5% min.

Pack Size: 500g, 5kg

Ethylene Diamine Tetra Acetic Acid Magnesium Disodium Salt

CAS 14402-88-1
 $\text{C}_{10}\text{H}_{12}\text{MgN}_2\text{Na}_2\text{O}_8 = 358.5$

3122 Ethylene Diamine Tetra Acetic Acid Magnesium Disodium Salt

LABCHEM

Assay (KT dried material).....98.5% min.

Pack Size: 100g

Ethyl Cyanoacetate

CAS 105-56-6
 $\text{C}_5\text{H}_7\text{NO}_2 = 113.11$

U.N Number.....2810
ADG Class.....6.1
Packing Group.....III



1053 Ethyl Cyanoacetate

UNILAB

Assay (by GC).....98% min.
Density @ 20°C.....1.061 – 1.062

Maximum limit of impurities(%)

Acidity..... 0.005

H_2O 0.2

Pack Size: 500mL

Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.

Summary of Ampoules available

Cat-No Description

1366 Hydrochloric Acid 0.1M
1395 Oxalic Acid 0.05M
1373 Sulphuric Acid 0.05M
1398 Ammonium Thiocyanate 0.1M

Cat-No Description

1376 Silver Nitrate 0.1M
1377 EDTA 0.1M
1396 Iodine 0.01M
1359 Potassium Dichromate 1/60M

Cat-No Description

1378 Potassium Hydroxide 0.1M
1361 Potassium Permanganate 0.02M
1386 Sodium Hydroxide 0.1M
1388 Sodium Thiouplhate 0.1M



Ethylene Dibromide (See 1-2-Dibromoethane Page 167)

Ethylene Dichloride (See 1-2-Dichloroethane Page 170)

Ethylene Chlorhydrin (See 2-Chloroethanol Page 137)

Ethylene Glycol Dimethyl Ether (See 1,2-Dimethoxyethane Page 178)

Ethylene Glycol Monophenyl Ether (See 2-Phenoxyethanol Page 330)

Ethylene Glycol (See Ethanediol Page 192)

Ethylene Glycol Monobutyl Ether (See 2-Butoxyethanol Page 108)

Ethylene Glycol Monomethyl Ether (See 2-Methoxyethanol Page 285)

N-Ethylethannamine (See Diethylamine Page 174)

Ethyl Ester (See Ethyl Acetoacetate Page 196)

Ethyl Ethanoate (See Ethyl Acetate Page 195)

Ethyl Ether (See Anaesthetic Ether Page 175)

Ethyl Formate

CAS 109-94-4
HCOOC₂H₅ = 74.08

U.N Number.....1190
ADG Class.....3
Packing Group.....II



1362 Ethyl Formate

UNILAB

Assay(GC).....97% min.
Density @ 20°C.....0.910 - 0.923 g/mL

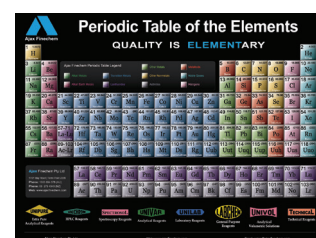
Pack Size: 500mL

Ethyl Iodide (See Iodoethane Page 239)

Ethyl Malonate (See Diethyl Malonate Page 177)

Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at www.ajaxfinechem.com/Marketing or email your request to sales@ajaxfinechem.com



Ethyl Methyl Ketone

CAS 78-93-3
 $C_2H_5COCH_3 = 72.11$

U.N Number.....1193
ADG Class.....3
Packing Group.....II



218 Ethyl Methyl Ketone

UNILAB

Density.....about 0.80g/mL
B.R.(95% min.).....79 – 81°C
Assay.....99.5% min

Maximum limit of impurities(%)

Non-vol..... 0.01

Acidity (as CH_3COOH)..... 0.01

Pack Size: 500mL, 2.5L, 20L

219 N-Ethylpiperidine

TECHNICAL

Assay.....99.0% min.
Density.....about 0.80g/mL

Pack Size: 2.5L

N-Ethylpiperidine

CAS 766-09-6
 $C_5H_{10}NC_2H_5 = 113.20$

U.N Number.....2386
ADG Class.....3
SUB.....8
Packing Group.....II



326 N-Ethylpiperidine

UNILAB

Density.....about 0.82g/mL
Assay.....98.5% min.
B.R. (95% min.).....128 – 131°C
R.I.1.444 – 1.445

Pack Size: 100 mL

Ethylene Trichloride (See Trichloroethylene Page 458)

Ethynyl Trichloride (See Trichloroethylene Page 458)

Eucalyptol (See Cineole Page 146)

Eugenol

CAS 97-53-0
 $C_{10}H_{12}O_2 = 164.20$

1058 Eugenol

LABCHEM

Assay (GC).....99% min.
Density @ 20°C.....1.064 – 1.065
R.I. @ 20°C.....~1.5405

Pack Size: 100 mL

Evans Blue (C.I.23860)

CAS 314-13-6

U.N Number.....3143

ADG Class.....6.1

Packing Group.....III



3203 Evans Blue (C.I.23860)

OP

Stain for microscopy.

Pack Size: 5g

FA (See Furfuryl Alcohol Page 211)

Fast Blue BB Salt (C.I. 37175)

CAS 15518-68-0

 $C_{17}H_{18}N_3O_3 \cdot \frac{1}{2}ZnCl_2 = 415.9$

3205 Fast Blue BB Salt (C.I. 37175)

LABCHEM

Appearance: greenish yellow amorphous powder
 Dye content.....80.0% min

Pack size: 25g

Fast Green FCF

CAS 2353-45-9

 $C_{37}H_{34}N_2O_{10}S_3Na_2 = 808.85$

3206 Fast Green FCF

LABCHEM

Appearance: Bordeaux to maroon powder
 Dye content.....about 85.0%
 Absorption maximum.....622 – 626nm
 Absorption ratio P-15/P+15.....0.98 – 1.2

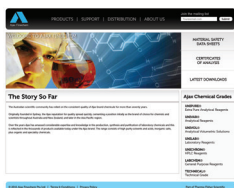
Pack size: 25g

799 Fehlings Solution No 1

LABCHEM

Used for determination of invert sugar in conjunction with Cat. 800.

Pack Size: 500mL, 2.5L



Your Window to Ajax Finechem

The Ajax website www.ajaxfinechem.com truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

Fehlings Solution No 2 B P

U.N Number.....1760
ADG Class.....8
Packing Group.....II



800 Fehlings Solution No 2 B P

LABCHEM

Description: Used for the determination of invert sugar in conjunction with Cat. 799.

Pack Size: 500mL, 2.5L, 20L

Ferric Chloride (See Iron (III) Chloride Anhydrous Page 242)

Ferric Citrate (See Iron (III) Citrate Granular Page 242)

Ferric Nitrate (See Iron (III) Nitrate Page 243)

Ferric Oxide (See Iron (III) Oxide ppted Red Page 244)

Ferric Sulphate (See Iron (III) Sulphate Pdr Page 245)

717 Ferroin 0.025 M Solution

LABCHEM

Redox indicator.
Transition EMF (@ pH=0).....+1.06V
Transition EMF (@ pH=7).....+ 1.12V
Colour change: Oxidized (faint blue) to reduced (red)

Pack Size: 100mL

Ferrous Chloride (See Iron (II) Chloride Page 241)

Ferrous Sulphate (See Iron (II) Sulphate Page 244)

Ferrous Sulphide (See Iron (II) Sulphide Sticks Page 244)

3209 Field Stain A For Microscopy

LABCHEM

Pack Size: 25g

3210 Field Stain B For Microscopy

LABCHEM

Pack Size: 25g

Filter Aid Med Hyflo

CAS 68855-54-9

1739 Filter Aid Med Hyflo

UNIVAR

Flux calcined diatomaceous earth
Retention (270 mesh).....20%
S.G.(approx) 2.15 g/mL
L.O.I.(approx) 0.5%

Pack Size: 500g

Florisil 60/100 Mesh, Pest. Residue Grade

CAS 1343-88-0

2551 Florisil 60/100 Mesh, Pest. Residue Grade

LABCHEM

Activated magnesium silicate for pesticide residue analysis. Activation temperature 650°C.

Pack Size: 1kg

Flowers Of Sulphur (See Sulphur Sublimed Page 438)

Fluoboric Acid 50% w/w Solution

CAS 16872-11-0

HBF₄ = 87.81

U.N Number.....1775

ADG Class.....8

Packing Group.....II



2577 Fluoboric Acid 50% w/w Solution

UNILAB

Assay.....49.5 - 50.5%

Maximum limit of impurities(%)

Cu. 0.0005

Pb. 0.05

Fe. 0.005

Zn. 0.0005

Ni. 0.0005

Chloride (Cl)..... 0.005

Free boric acid (H₃BO₃)..... 2Fluosilicic acid(H₂SiF₆)..... 0.02SO₄..... 0.002

Pack Size: 500mL

1-Fluoro-2,4-Dinitrobenzene

CAS 70-34-8

C₃H₃FN₂O₄ = 186.1

U.N Number.....2811

ADG Class.....6.1

Packing Group.....II



2207 1-Fluoro-2,4-Dinitrobenzene

UNILAB

Appearance: Pale yellow crystals

Assay.....98.0% min.

Maximum limit of impurities(%)

Ca. 0.005

Cd. 0.005

Cu. 0.005

Fe. 0.005

Pack size: 25g

Fluorescein (CI 45350)

CAS 2321-07-5

C₂₀H₁₂O₅ = 332.32

2205 Fluorescein (CI 45350)

LABCHEM

Adsorption indicator.

Pack Size: 100g

Fluorescein Sodium Salt (CI 45350)

CAS 518-47-8
 $C_{20}H_{10}O_5Na_2 = 376.28$

229 Fluorescein Sodium Salt (CI 45350)

LABCHEM

Water soluble. Used for tracing water courses etc.
Effective visual indication at 2 mg/L.

Pack Size: 100g, 500g, 5kg

Fluoroboric Acid (See Fluoboric Acid 50 % w/w Page 205)

Fluosilicic Acid 34% w/w

CAS 16961-83-4

U.N Number.....1778
ADG Class.....8
Packing Group.....II



1250 Fluosilicic Acid 34% w/w

TECHNICAL

Pack Size: 500 mL

Folin & Ciocalteus Reagent

U.N Number.....3264
ADG Class.....8
Packing Group.....III



665 Folin & Ciocalteus Reagent

LABCHEM

Golden yellow clear liquid.
For phenol determination.
Reaction with phenol - positive

Pack Size: 500mL

Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation



Simply visit: www.ajaxfinechem.com/Unipure

Formaldehyde Solution

CAS 50-00-0
HCHO = 30.03

U.N Number.....2209
ADG Class.....8
Packing Group.....III



809

Formaldehyde Solution

UNIVAR

Description: clear liquid when packed, with a strong, pungent, characteristic odour. A white deposit of paraformaldehyde may form on storage.

Assay.....36.5 - 38.0% w/w
Methanol.....6.5-7.5% w/w
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.I.....	0.005	Fe.....	0.0005
Titrateable acid.....	0.006 meq/g	H.M. (as Pb).....	0.0005
SO ₄	0.002	Chlorides.....	0.0035

Store between 25 and 35°C

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

230

Formaldehyde Solution

UNILAB

Description: colourless liquid, odour, characteristic, pungent, and irritating. A slight white deposit may form on storage.

Assay.....34.5 - 38.0% w/w
Methanol (GC).....9.0-10.0% v/v

Maximum limit of impurities(%)

Acidity.....	.5 mmol H	Sulphated Ash.....	0.1%
--------------	-----------	--------------------	------

Store between 25 and 35°C

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L, 5L, 20L, 200L

84

Formaldehyde 37% Solution

TECHNICAL

Assay.....about 36% w/w
Density.....about 1.09g/mL

Pack Size: 2.5L

Formalin (See Formaldehyde Soln Page 207)

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Formamide

CAS 75-12-7
HCONH₂ = 45.04

702 Formamide

UNILAB

Density.....about 1.13g/mL
M.P.....about 2°C
Assay.....99.5% min.
F.P.....2°C min.
B.R.....about 111 – 112°

Maximum limit of impurities(%)

Non-vol..... 0.05
Acidity (as HCOOH)..... 0.1
Amm Formate..... 0.1

Methanol..... 0.1
H₂O..... 0.05

Pack Size: 500mL, 20L, 2.5L

Formdimethylamide (See N-N-Dimethylformamide Page 181)

Formic Acid 99%

CAS 64-18-6
HCOOH = 46.03

U.N Number.....1779
ADG Class.....8
SUB.....3
Packing Group.....II



2471 Formic Acid 99%

UNIVAR

Description: clear liquid with a pungent odour.

Density.....about 1.22g/mL
Assay.....98.0% w/w min.
F.P.....5.5°C min.

Maximum limit of impurities(%)

H₂O-insol..... passes test
Non-vol..... 0.002
Cl..... 0.0005
N cpds (as N)..... 0.002
SO₃..... 0.001

SO₄..... 0.001
Cu..... 0.0005
Fe..... 0.0003
Pb..... 0.0005
CH₃COOH..... 0.3

Pack Size: 500mL, 2.5L

1063 Formic Acid 90%

UNIVAR

Description: clear, colourless or almost colourless, corrosive liquid with a pungent odour.

Density.....about 1.2g/mL
Assay.....89.0 - 91.0% w/w

Maximum limit of impurities(%)

Non-vol..... 0.005
Dil. Test..... To pass test
Cl..... 0.001
SO₄..... 0.002
SO₃..... To pass test

Fe..... 0.0005
H.M. (as Pb)..... 0.0005
NH₄..... 0.01
CH₃COOH..... 0.4

Pack Size: 500mL, 2.5L

Fuchsin Acid (CI 42685)

CAS 3244-88-0

3212 Fuchsin Acid (CI 42685)

LABCHEM

Stain for microscopy.

Pack Size: 25g

Fuchsin Basic Pure For Schiffs/Feulgen (CI 42510)

CAS 632-99-5

3213 Fuchsin Basic Pure For Schiffs/Feulgen (CI 42510)

LABCHEM

For microscopy. Specially prepared and purified for use in Schiff's and Feulgen reagents.

Pack Size: 25g

Fullers Earth

CAS 8031-18-3

238 Fullers Earth

TECHNICAL

A sodium type bentonite comprising mainly montmorillonite.

Typical analysis below: SiO₂ 59.5%, Al₂O₃ 21.0%, Fe₂O₃ 6.5%

L.O.I.....8.3%

Pack Size: 500g

Fumaric Acid

CAS 110-17-8

C₄H₄O₄ = 116.07

1557 Fumaric Acid

UNILAB

Appearance: white to colourless granules or crystalline powder

Assay.....99.0% min.

Pack size: 500g, 5Kg

Furfuraldehyde

CAS 98-01-1

C₅H₄O₂ = 96.09

U.N Number.....1199

ADG Class.....6.1

SUB.....3

Packing Group.....II



1066 Furfuraldehyde

TECHNICAL

R.I.about 1.5257 (20°C, 589nm)

Maximum limit of impurities(%)

H₂O (KF)..... 0.05

Pack Size: 500mL, 2.5L

Furfuryl Alcohol

CAS 98-00-0

Synonyms: FA, 2-Hydroxymethyl furan

 $C_5H_6O_2 = 98.10$

U.N Number.....2874

ADG Class.....6.1

Packing Group.....III



1558 Furfuryl Alcohol For Synthesis

LABCHEM

Assay.....>98%

Density @ 20°C.....1.132 – 1.133

Maximum limit of impurities(%)

H₂O..... 0.2

Pack Size: 500 mL

GABA (See 4-Aminobutyric Acid Page 44)

D(+)-Galactose

CAS 59-23-4

 $C_6H_{12}O_6 = 180.16$

239

D(+)-Galactose

UNIVAR

Description: white crystalline powder. Specific Rotation +79.0 to +81°

Appearance (10% solution) Clear & colourless

Maximum limit of impurities(%)

Water (KF)..... 0.3

Sulphated Ash..... 0.1

Pack Size: 100g, 500g

240

D(+)-Galactose

UNILAB

Suitable for liver function tests.

M.P.165-168°

Spec. rotn.+79.0 to +81.2°

Pack Size: 100g

Gallic Acid Monohydrate

CAS 5995-86-8

Synonyms: 3,4,5 Trihydroxybenzoic acid

 $C_7H_6O_5 \cdot H_2O = 188.14$

222

Gallic Acid Monohydrate

UNILAB

Assay.....99.5% min.

Maximum limit of impurities(%)

Cl..... 0.01

SO₄..... 0.005H₂O..... 8 – 10

Sulphated ash..... 0.1

Tannic acid.....To pass test

Pack Size: 500g

Gelatine powder

CAS 9000-70-8

1080 Gelatine powder

LABCHEM

Pack Size: 500g

Gentian Violet (CI 42555)

CAS 548-62-9

3214 Gentian Violet (CI 42555)

OP

Stain for microscopy.

Pack Size: 25g

Gibberellic Acid

CAS 77-06-5

$C_{19}H_{22}O_6 = 346.38$

3060 Gibberellic Acid

LABCHEM

Appearance: white amorphous powder

Assay.....90.0% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

L.O.D.1

Sulphated ash..... 0.2

Pack size: 25g

Giemsa's Stain Powder

CAS 51811-82-6

3272 Giemsa's Stain Powder

OP

Stain for microscopy.

Pack Size: 25g, 500g

Giemsa Stain Solution

U.N Number.....1992

ADG Class.....3

SUB.....6.1

Packing Group.....II



1825 Giemsa Stain Solution

LABCHEM

Giemsa stain 0.75% in 50/50 Methanol/Glycerol

Pack Size: 1L, 5L

Girard'S Reagent P

CAS 1126-58-5
 $C_7H_{10}ClN_3O = 187.63$

628 Girard'S Reagent P (Gives water-soluble derivatives of ketones and ketosteroids) *LABCHEM*

Assay.....98% min.
 M.P.200 – 203°C

Pack Size: 25g

Glass Balls

1700 Glass Balls, Undrilled, 3mm *TECHNICAL*

Pack Size: 500g

Glass Wool Low In Lead

1755 Glass Wool Low In Lead *TECHNICAL*

Pack Size: 500g

Glassware Cleaning Soln

1676 Glassware Cleaning Soln.-Chromic Acid *TECHNICAL*

Formula is $Na_2Cr_2O_7$ 2.9 kg in 200L H_2SO_4 . Chromic acid - about 2% w/v

Pack Size: 2.5L

D-Glucose

CAS 50-99-7
 $C_6H_{12}O_6 = 180.16$

783 D-Glucose anhydrous *UNIVAR*

Description: white crystalline powder.
 Spec. rotn. (@25 Deg.C).....+52.5 to +53.0°

Maximum limit of impurities(%)

Insol.....	0.005	SO_4 & SO_3 (as SO_4).....	0.005
R.A.I.....	0.02	As.....	0.00002
Titratable acid.....	0.2 mmol H	Fe,Cu,Pb.....	.00001 each
L.O.D.....	0.2	H.M. (as Pb).....	0.0005
Cl.....	0.01	Starch.....	To Pass test

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

1364

D-Glucose anhydrous

UNILAB

Description: white, crystalline powder; odourless
Spec. rotn. (10% ammoniacal soln.).....+52.5 to 53.0°

Maximum limit of impurities(%)

Clarity, odour & colour soln..... To pass test
Sulph. ash..... 0.1
Acidity or alkalinity..... To pass test
Cl..... 0.0125
SO₄..... 0.020
SO₃..... To pass test
As..... 0.0001

Ba..... To pass test
Ca..... 0.020
Pb..... 0.00005
H₂O..... 1.0
Foreign sugars, sol.starch &
Dextrins..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

917

D-Glucose anhydrous

LABCHEM

Spec. rotn.(10% ammoniacal sol).....+52.0 to +54.0°

Maximum limit of impurities(%)

SO₄..... 0.05

H₂O..... 1.5

Pack Size: 500g

713

D-Glucose Monohydrate

UNILAB

Description: colourless crystals; or a white or cream coloured, crystalline or granular powder; odourless.

H₂O.....7.0 - 9.5%

Spec. rotn. (10% w/v NH₄OH soln of dried material) +52.5 to +53.3°

Maximum limit of impurities(%)

Clarity, odour & colour soln..... To pass test
Sulph. ash..... 0.1
Acidity or alkalinity..... 0.25mmol H or OH
Cl..... 0.0125
SO₄..... 0.020

SO₃..... To pass test
As..... 0.0001
Ba..... To pass test
Ca..... 0.020
Pb..... 0.00005

Foreign sugars,soluble starch,
dextrins..... To pass test

Pack Size: 500g, 25kg

L-Glutamic Acid

CAS 56-86-0

C₅H₉NO₄ = 147.13

2404

L-Glutamic Acid

UNIVAR

Description: White crystalline powder

Solubility: Soluble in water and alcohol. Insoluble in ether, acetone, and chloroform.

Assay (Non-aqueous titration).....99.8% min.

Maximum limit of impurities(%)

Fe..... 0.0005
Pb..... 0.0005
Cl..... 0.005

SO₄..... 0.005
Cd..... 0.0005
Na..... 0.005

Pack size: 250g

Glutaraldehyde 25% Solution

CAS 111-30-8
 $\text{OHCC}_3\text{H}_6\text{CHO} = 100.12$

U.N Number.....2927
 ADG Class.....6.1
 SUB.....8
 Packing Group.....II



698

Glutaraldehyde 25% Solution

UNILAB

Assay.....24.5% w/w min.
 pH(5% soln).....3.0 min

Maximum limit of impurities(%)
 Dilution with water.....clear/slightly opalescent
 Store below 4°C.....(do not freeze)

Pack Size: 500mL, 2.5L, 20L, 200kg

Glutathione

CAS 70-18-8
 $\text{C}_{10}\text{H}_{17}\text{N}_3\text{O}_6\text{S} = 307.3$

234

Glutathione, Reduced

UNILAB

Description: White crystalline powder

Assay.....98.0% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.0005

Fe..... 0.0005

Ca..... 0.001

Pack size: 25g

Glycerine (See Glycerol Page 215)

Glycerol

CAS 56-81-5
 $\text{CH}_2\text{OHCHOHCH}_2\text{OH} = 92.09$

242

Glycerol

UNIVAR

Description: clear, odourless, viscous liquid.

Assay.....99.5% min.

Colour (APHA).....10 max

Density (@ 25°C).....1.2570g/mL min.

Maximum limit of impurities(%)

R.A.I..... 0.005

Neutrality.....To pass test

Cl cpds (as Cl)..... 0.003

SO_4 0.001

H.M. (as Pb)..... 0.0002

Acrolein & glucose.....To pass test

Fatty acid esters..... 0.05

Subs. darkened by H_2SO_4To pass test

Water..... 0.5

Conforms to ACS

Pack Size: 500mL, 2.5L, 250kg

243 **Glycerol**

UNILAB

Description: clear, colourless or almost colourless, syrupy liquid; slippery to the touch; hygroscopic

Assay.....98.0 - 101.0%
 R.I.....1.470-1.475
 Water.....2.0% max.

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test
 Sulph. ash..... 0.01
 Acidity.....To pass test
 Cl..... 0.001
 Halogenated cpds (Cl)..... 0.0035

H.M. (as Pb)..... 0.0005
 Ester.....To pass test
 Aldehydes & reducing subst..... To pass test
 Sugars..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L, 10L, 250kg**918** **Glycerol**

UNILAB

Assay.....97.0% min.
 R.I.....1.46-1.48

Maximum limit of impurities(%)

Sulph. ash..... 0.01

Water.....3.0% max.

Pack Size: 500mL**Glycine**

CAS 56-40-6

 $\text{NH}_2\text{CH}_2\text{COOH} = 75.07$ **1083** **Glycine**

UNIVAR

Description: white crystalline powder.

Assay.....98.5% min.
 M.P.....235-245°C

Maximum limit of impurities(%)

Insol..... 0.005
 Sulph. ash..... 0.1
 Cl..... 0.005
 Fe..... 0.003

H.M. (as Pb)..... 0.002
 NH_4 0.01
 H_2O 0.2

Pack Size: 500g, 5kg**1084** **Glycine**

UNILAB

A white, crystalline powder.

Assay(dried basis).....98.5 - 101.0%
 Acidity(pH 5% w/v).....5.9 - 6.4

Maximum limit of impurities(%)

Clarity & colour of soln..... To pass test
 H.M.(as Pb)..... 0.001
 Cl..... 0.0075

L.O.D..... 0.5
 Sulphated ash..... 0.1

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg**Glycocoll** (See Glycine Page 216)

Glycolic Acid 70%

CAS 79-14-1
CH₂OHCOOH = 76.05

U.N Number.....3265
ADG Class.....8
Packing Group.....II



1085 Glycolic Acid 70%

TECHNICAL

Total acid (as Hydroxy-acetic).....70-72%
Colour (Gardner scale).....3 max.
Turbidity, NTU.....6 max.

Maximum limit of impurities(%)

Formic acid.....1.0 SO₄.....0.08%

Pack Size: 500mL

Gold 1000ppm Single Element ICP Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2637 Gold 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Gold standard, ready for use.
Au in 0.5% hydrochloric acid.

Pack Size: 100mL

Gold AAS Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2611 Gold AAS Standard

SPECTROSOL

A 1000 ppm Gold standard, ready for use.
Each ml contains 1.00±0.005mg of Au in a chloride matrix.

Pack Size: 500mL

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.
Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Gold Chloride

CAS 27988-77-8
HAuCl₄·3H₂O = 393.83

1086 Gold Chloride, Brown UNIVAR

Description: brown, hygroscopic lumps or crystals.
Assay(as Au).....99.99% min

Maximum limit of impurities(%)		
Fe.....	0.002	Pb..... 0.0005
Cu.....	0.001	Ag..... 0.005

Conforms to ACS

Store below 4°C (refrigerate)

Pack Size: 1g

1826 Gold Chloride Solution LABCHEM

1% in aqueous solution

Pack Size: 100mL

Gram's Iodine Solution

1832 Gram's Iodine Solution LABCHEM

Iodine 1% max.
Potassium Iodide 1% max.

Pack Size: 1L, 5L

Graphite Fine Powder

CAS 7782-42-5

2459 Graphite Fine Powder LABCHEM

Maximum limit of impurities(%)		
Soluble in Ethanol.....	0.2	ROI..... 1.0
LOD.....	1.0	

Pack Size: 500g

Guanidine Hydrochloride

CAS 50-01-1
CH₆ClN₃ = 95.53

3245 Guanidine Hydrochloride UNIVAR

Description: White crystalline powder
Assay.....99.0% min.

Maximum limit of impurities(%)		
Pb.....	0.0005	RNase..... None detected
DNase.....	None detected	Bacterial contamination..... .10 CFU/g

Pack size: 100g

Guanidine Thiocyanate

CAS 593-84-0
 $C_2H_6N_4S = 118.16$

1322 Guanidine Thiocyanate UNIVAR

Description: Off-white crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

DNase..... None detected

RNase..... None detected

Bacterial contamination.....10 CFU/g

Pack size: 100g

Gum Arabic (See Acacia Page 19)

Gypsum (See Calcium Sulphate, dihydrate Page 126)

Haematoxylin

CAS 517-28-2
 $C_{16}H_{14}O_6 + \text{water}$

1798 Haematoxylin (CI 75290) LABCHEM

Reagent for Aluminium
 pH indicator.

Pack Size: 25g, 1kg

1828 Haematoxylin, Gill's I, Progressive Type LABCHEM

Haematoxylin.....1.2g/L

Pack Size: 1L, 5L

1829 Haematoxylin, Gill's II, Regressive Type LABCHEM

Haematoxylin.....4g/L

Pack Size: 1L, 5L

1830 Haematoxylin, Gill's III, Regressive Type LABCHEM

Haematoxylin.....6g/L

Pack Size: 1L, 5L

1827 Harris Haematoxylin Stain Solution LABCHEM

Haematoxylin.....1%

Pack Size: 1L, 5L

Hazorb Universal Sorbent Pillows

2524 Hazorb Universal Sorbent Pillows

LABCHEM

Universal sorbent (consisting of amorphous inorganic foam particles) packed in an inert porous fabric pillow. Appropriate for containing spills of all liquids except hydrofluoric acid.

Available in 2 size pillows: laboratory & industrial.

Pack Size: EACH

Hepes

CAS 7365-45-9

$C_8H_{18}N_2O_4S = 238.3$

2402 Hepes, Biological Buffer

UNIVAR

Description: White powder

Solubility (0.1M in H_2O): Clear and complete

Assay.....99.0% min.

pKa.....7.35 – 7.75

pH.....(5% in H_2O) 5.0 – 6.5

Maximum limit of impurities(%)

Moisture..... 1.0

Pack size: 1kg

Heptane

CAS 142-82-5

$CH_3(CH_2)_5CH_3 = 100.21$

U.N Number.....1206

ADG Class.....3

Packing Group.....II



2322 n-Heptane

UNICHROM

Description: clear liquid, characteristic odour.

R.I.1.388

Viscosity @ 20°C.....0.41cP

Assay (GLC).....>95.0%

Maximum limit of impurities(%)

Non-vol..... 0.001

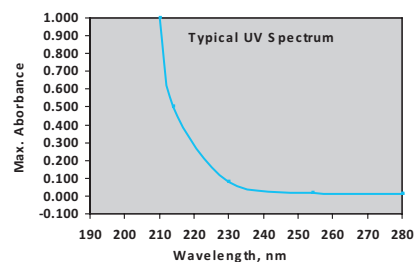
Acidity.....0.02 mmol H

H_2O (by K.F.)..... 0.01

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC and pesticide residue analysis.

Pack Size: 2.5L



U.V. Absorbance:

λ (nm)	210	214	254	280
Max. abs.	1.00	0.50	0.02	0.01

589 **N-Heptane 99%** SPECTROSOL

Density.....0.684 g/mL
 M.P.-90°C
 B.P.98.4°C
 Assay (GC).....99.0% min.
 Acidity (mEq/g).....0.0005 max.

FTIR Spectrum.....To Pass test

Maximum limit of impurities(%)
 Water (by Coulometry)..... 0.01
 R.O.E..... 0.0005

Max. UV. Absorbance:

λ(nm)	200	210	220	230	250
Absorbance	1.00	0.30	0.097	0.05	0.009

Pack Size: 500mL, 2.5L GL

247 **n-Heptane** UNIVAR

Description: clear liquid with a characteristic odour.
 Assay(GLC).....99.5% min.
 B.R.(95% min.).....98-100°C
 Density.....0.680 – 0.684 g/mL
 R.I.(@20 °C).....1.3870 – 1.3880

Maximum limit of impurities(%)
 Non-vol..... 0.001
 Acidity.....0.02 mmol H

Aromatic hydrocarbons..... 0.2
 (as C₆H₆)
 S cpds (as S)..... 0.005

Pack Size: 500mL, 2.5L, 20L

248 **Heptane Fraction** UNILAB

B.R.(95% min.).....94-100 Deg.C
 Density.....0.69 – 0.70 g/mL

Maximum limit of impurities(%)
 Non-vol..... 0.01

Acidity.....0.1 mmol H

Pack Size: 20L

105 **Heptane** LABCHEM

Description: clear liquid.
 Boiling Range.....90 - 105°C

Pack Size: 200L

1-Heptane Sulphonic Acid

U.N Number.....2920
 ADG Class.....8
 SUB.....3
 Packing Group.....II



2340 **1-Heptane Sulphonic Acid, 0.25mol/L in Acetic Acid** UNICHROM

Specially purified for HPLC.
 An ion-pairing reagent for the separation of basic compounds.
 Non vol.....50.5+0.8 mg/mL
 Dilution.....Clear no turbidity

Pack Size: 5x20mL

1-Heptane Sulphonic Acid Sodium Salt

CAS 22767-50-6
 $C_7H_{15}SO_3Na = 202.24$

2416 1-Heptane Sulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC.
An ion-pairing reagent for the separation of basic compounds.

Pack Size: 10g

n-Hexadecane

CAS 544-76-3
 $C_{16}H_{34} = 226.45$

3063 n-Hexadecane

UNIVAR

Description: Colourless clear liquid
Assay.....99.0% min.
Colour (APHA).....10 max.

Pack size: 100mL

Hexa-2,4-Dienoic Acid (See Sorbic Acid Page 430)

Hexadecanoic Acid (See Palmitic Acid Page 319)

Hexahydrobenzene(See Cyclohexane Page 162)

Hexahydrophenol (See Cyclohexanol Page 162)

Hexahydroxycyclohexane (See Inositol Page 237)

Hexamethylenediamine (See 1-6-Diaminohexane Page 167)

Hexamine

CAS 100-97-0
 $(CH_2)_6N_4 = 140.19$

U.N Number.....1328
ADG Class.....4.1
Packing Group.....III



1089 Hexamine

UNILAB

Assay.....98.5%
Maximum limit of impurities(%)
Sulph. ash..... 0.05 H.M. (as Pb)..... 0.001

Pack Size: 500g, 5Kg

Hexamethyl Violet (See Crystal Violet (CI42555) Page 160)

Hexamethylene (See Cyclohexane Page 162)

Hexamethylenetetramine (See Hexamine Page 222)

Hexanoic Acid (See Caproic Acid Page 128)

n-Hexane

CAS 110-54-3
C₆H₁₄ = 86.18

U.N Number.....1208
ADG Class.....3
Packing Group.....II



2320 n-Hexane

UNICHROM

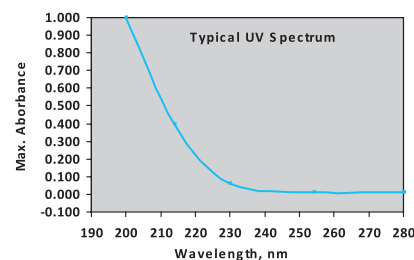
Pack Size: 500g, 5kg

Description: clear liquid, characteristic odour.
Assay (GLC).....>99.5%

Maximum limit of impurities(%)
Non-vol..... 0.001
Acidity.....0.03 mmol H
H₂O (by K.F.)..... 0.05

U.V. Absorbance:

λ(nm)	200	214	254	280
Max.abs.	1.00	0.3	0.02	0.01



Suggested Applications:
Specially purified grade filtered through 0.45 micron filter for HPLC and pesticide residue analysis.

Pack Size: 2.5L

2543 n-Hexane 95%

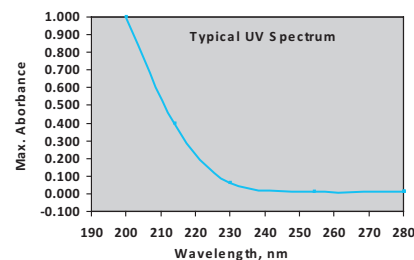
UNICHROM

Description: clear liquid, characteristic odour.
Density about 0.68 g/mL
R.I @ 20°C.....1.375
Viscosity @ 20°C.....0.31 cP
Assay (as n-Hexane).....>95.0%

Maximum limit of impurities(%)
R.A.E..... 0.001
Acidity.....0.03 mmol H
H₂O (by K.F.)..... 0.05

U.V Absorbance:

λ(nm)	200	214	254	280
Max. Abs.	1.00	0.30	0.02	0.01



Suggested Applications:
Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L

3475 n-Hexane 95%, Unichrom Pesticide Grade

UNICHROM

High purity solvent for Pesticide residue analysis.

Assay (as n-Hexane).....Min 95.0%
(as C6 Hydrocarbons).....Min 99.5%
Colour (Apha).....10

Maximum limit of impurities(%)
Water..... 0.02 R.A.E..... 0.0002

ECD Responsive Residue (as Heptachlor Epoxide) 10ppt

Pack Size: 4L

590

n-Hexane

SPECTROSOL

Description: clear liquid; characteristic odour.

For U.V. spectroscopy.

Colour (APHA).....10 max.

Density @25 Deg C.....0.687 g/mL.

Assay (GLC).....99.5% min.

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.03

Conforms to ACS

Pack Size: 500mL, 2.5L

Thiophene.....To pass test
S cpds (as S)..... 0.005**U.V. Absorbance:**

λ(nm)	200	220	230	240	250	280-400
Max. abs.	1.00	0.20	0.10	0.04	0.02	0.01

2508

n-Hexane 95%

UNIVAR

Description: clear liquid with characteristic odour.

Density (@25°C).....about 0.68g/mL

Assay (GLC).....95% min.

B.R. (95% min.).....68-70°C

Colour (APHA).....10 max.

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.03 mmol H

Aromatic hydrocarbons(as C₆H₆)..... 0.2

Thiophene.....To pass test

Al..... 0.00001

Fe..... 0.00001

K..... 0.00001

Na..... 0.00001

Zn..... 0.00001

Ba..... 0.000002

Cr..... 0.000002

Co..... 0.000002

Cu..... 0.000002

Pb..... 0.000002

Mn..... 0.000002

Ni..... 0.000002

Sr..... 0.000002

Cd..... 0.000005

Mg..... 0.000005

Ca..... 0.000002

Pack Size: 500mL, 2.5L, 20L, 133kg

250

n-Hexane, Low In Aromatic Hydrocarbons

UNIVAR

Description: clear liquid with a characteristic odour.

Assay (GLC).....99.5% min.

BR (95% min.).....2°C max. incl. 68.7°C

Colour (APHA).....10 MAX.

Density (@ 25°C).....0.687g/mL max.

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.03 mmol H

Aromatic hydrocarbons(as C₆H₆)..... 0.2

S cpds (S)..... 0.005

Thiophene.....To pass test

Pack Size: 500mL, 2.5L, 20L

251

Hexane Fraction

UNILAB

Density.....about 0.68g/mL

B.R.(95% min.).....60 - 80 °C

Maximum limit of impurities(%)

Non-vol..... 0.01

Acidity.....0.1 mmol H

Pack Size: 500mL, 2.5L, 20L, 200L

Hexanedioic Acid (See Adipic Acid Page 33)

Hexan-1-ol

CAS 111-27-3
 $\text{CH}_3(\text{CH}_2)_5\text{OH} = 102.18$

U.N Number.....2282
 ADG Class.....3
 Packing Group.....III



185

Hexan-1-OL

UNILAB

Density.....about 0.82g/mL
 R.Iabout 1.418
 B.R.(95% min.).....156-158 Deg.C
 Assay (GC).....98% min.

Pack Size: 500mL, 2.5L

N-Hexanol (See Hexan-1-ol Page 225)

N-Hexyl Alcohol (See Hexan-1-ol Page 225)

1-Hexanesulphonic Acid Sodium Salt

CAS 2832-45-3
 $\text{C}_6\text{H}_{13}\text{SO}_3\text{Na} = 188.21$

2415

1-Hexanesulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC.
 An ion-pairing reagent for the separation of basic compounds.

Pack Size: 10g

High Vacuum Grease

1400

High Vacuum Grease

LABCHEM

For lubrication of glass stopcocks and valves for high vacuum and general purposes. Displays low bleed and evaporation.

Pack Size: 50g, 100g, 500g

Hippuric Acid

CAS 495-69-2
 $\text{C}_9\text{H}_9\text{NO}_3 = 179.2$

1090

Hippuric Acid

UNILAB

Description: White coloured crystals
 Assay.....99.0% min.
 Melting point.....187 - 188°C

Maximum limit of impurities(%)

NH_4 0.01

H.M. (as Pb)..... 0.001

Pack size: 100g

L-Histidine Monohydrochloride

CAS 645-35-2

$C_6H_9O_2N_3 \cdot HCl \cdot H_2O = 209.63$

1091 L-Histidine Monohydrochloride

LABCHEM

Assay.....98.5 - 101.0%
Spec. rotn.+8.5 to +10.5°
Cl.....16.6 - 17.1%

Maximum limit of impurities(%)

LOD.....0.2
ROI.....0.1
Fe.....0.0010
NH₄.....0.02

SO₄.....0.03
As.....0.0001
H.M.....0.001

Pack Size: 25g

Horn's Dry Lead (See Lead Acetate Basic Pdr Page 252)

HPTLC

1856 HPTLC Plates, Silica Gel 60 F254

OP

Contains fluorescent indicator
Plate dimension.....10 x 20cm

Typical specifications:

Particle size.....2 - 10 μm
Mean pore diameter.....60 Å
Specific Pore Volume.....0.75 ml/g
Specific Surface (BET).....about 500 m²/g

Pack Size: 50 Sheets

Hyamine 1622

CAS 121-54-0

2612 Hyamine 1622

LABCHEM

Cationic surfactant.
Appearance: White powder
Assay.....99.0 - 101%

Pack Size: 250g

Hydrated Alumina (See Aluminium Hydroxide Gel Page 39)

Hydrazine Dihydrochloride

CAS 5341-61-7

Synonyms: Hydrazinium dihydrochloride
 $N_2H_4 \cdot 2HCl = 104.97$

U.N Number.....3288

ADG Class.....6.1

Packing Group.....III



1092 Hydrazine Dihydrochloride Suitable for Amino acid determination

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

SO₄.....0.005

Pb.....0.001

Fe.....0.001

R.O.I.....0.1

Pack Size: 100g, 500g

Hydrazinium Dihydrochloride (See Hydrazine Dihydrochloride Page 227)

Hydrazinium Hydrate

CAS 7803-57-8

$NH_2NH_2 \cdot H_2O = 50.06$

U.N Number.....2030

ADG Class.....8

SUB.....6.1

Packing Group.....II



1093 Hydrazinium Hydrate

UNILAB

Density.....about 1.03g/mL

Assay.....99% min.

Pack Size: 500ML

Hydrazine Hydrate (See Hydrazinium Hydrate Page 227)

Hydrazinium Sulphate

CAS 10034-93-2

$NH_2NH_2 \cdot H_2SO_4 = 130.12$

U.N Number.....3288

ADG Class.....6.1

Packing Group.....III



252 Hydrazinium Sulphate

UNIVAR

Description: colourless crystals.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insols.....0.005

R.A.I.....0.05

Cl.....0.005

Fe.....0.001

H.M. (as Pb).....0.002

Pack Size: 100g, 500g

255 Hydrobromic Acid 48% Solution

UNILAB

Density.....about 1.49g/mL
 Assay.....46.0% min.

Maximum limit of impurities(%)

Sulph. ash..... 0.05
 Cl..... 0.1
 SO₄..... 0.02

As..... 0.0005
 H.M. & Fe (as Fe)..... 0.001

Pack Size: 500mL, 2.5L

Hydrogen Bromide (See Hydrobromic Acid 48% Page 228)

Hydrochloric Acid

CAS 7647-01-0
 HCl = 36.46

U.N Number.....1789
 ADG Class.....8
 Packing Group.....II



1399 Hydrochloric Acid, Extra Pure

UNIPURE

Assay.....34 -37%

Maximum limit of impurities(ppb)

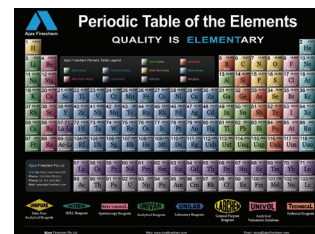
Al..... 3
 Sb..... 1
 As..... 1
 Ba..... 1
 Be..... 1
 Bi..... 1
 B..... 3
 Cd..... 1
 Ca..... 3
 Cr..... 1
 Co..... 1
 Cu..... 1
 Fe..... 3
 Pb..... 1
 Li..... 1
 Mg..... 1

Mn..... 1
 Hg..... 1
 Mo..... 1
 Ni..... 1
 K..... 1
 Se..... 1
 Ag..... 1
 Na..... 1
 Sr..... 1
 Th..... 1
 Sn..... 1
 Ti..... 1
 U..... 1
 V..... 1
 Zn..... 1
 Zr..... 1

Pack size: 500mL, 2.5L

Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at www.ajaxfinechem.com/Marketing or email your request to sales@ajaxfinechem.com



1367 Hydrochloric Acid 36%

UNIVAR

Description: clear colourless or near-colourless fuming liquid.

Density.....about 1.18g/mL
 Assay.....36.0 - 39.0% w/w

Maximum limit of impurities(%)

Residue on evaporation.....	0.0005	Mn.....	0.000002
Free chlorine (as Cl).....	0.0001	Mo.....	0.000002
SO ₄	0.0001	Sr.....	0.000002
SO ₃	0.0001	Ni.....	0.000005
Al.....	0.00005	Pb.....	0.000005
Fe.....	0.00005	Cd.....	0.000005
Mg.....	0.00005	Na.....	0.0001
K.....	0.00005	Ca.....	0.0001
Zn.....	0.00002	NH ₄	0.0001
Ba.....	0.00002	Co.....	0.000001
As.....	0.000002	H.M (as Pb).....	0.00005
Cu.....	0.000002	Appearance of solution.....	To pass test

Chemical and physical parameters conform to BP and EP

Pack Size: 500mL, 2.5L, 20L, 200L

256 Hydrochloric Acid 32%

UNIVAR

Description: clear colourless fuming liquid.

Density.....about 1.16g/mL
 Assay.....31.5% w/w min.

Maximum limit of impurities(%)

R.A.I.....	0.0005	Mn.....	0.000002
Free chlorine (as Cl).....	0.0001	Mo.....	0.000002
SO ₄	0.0001	Sr.....	0.000002
SO ₃	0.0001	Zn.....	0.00001
Al.....	0.00005	Ni.....	0.000005
Fe.....	0.00005	Pb.....	0.000005
Mg.....	0.00005	Cd.....	0.000005
K.....	0.00005	Na.....	0.0001
Ba.....	0.00002	Ca.....	0.0001
Co.....	0.000001	NH ₄	0.0001
Cu.....	0.000002	Colour.....	To pass test
As.....	0.000002		

Pack Size: 500mL, 2.5L, 20L, 200L

2224 Hydrochloric Acid

OP

Description: clear colourless fuming liquid.

Assay.....32 - 34%.

Maximum limit of impurities(%)

Fe.....	0.0002		
As.....	0.0001	H.M. (as Pb).....	0.0002

Pack Size: 15L

5410 Hydrochloric Acid 32%

LABCHEM

Description: clear, pale yellow liquid.

Assay.....32 - 34% w/w

Maximum limit of impurities(%)

Fe.....	0.005	H.M (as Pb).....	0.002
---------	-------	------------------	-------

Pack Size: 20L, 200L

- 174** **Hydrochloric Acid 0.100M Solution** UNIVOL
 Stabilized with sodium azide.....0.01%
 Molarity.....0.0995 - 0.1005 mol/L
 Pack Size: 1L, 6x1L, 2.5L
- 643** **Hydrochloric Acid 1.000M** UNIVOL
 Stabilized with sodium azide.....0.01%
 Molarity.....0.995 - 1.005 mol/L
 Pack Size: 6x1L, 2.5L
- 1607** **Inhibited Hydrochloric Acid** TECHNICAL
 Description: clear pale yellow liquid.
 Contains corrosion inhibitor 0.2% w/w maximum
 Assay.....32 - 34% w/w
 Pack Size: 15L, 200L
- 1368** **Hydrochloric Acid 1.0MOL Concentrate, Ampoule** OP
 Description: plastic ampoule containing clear colourless liquid
 1 mole (36.460g HCl) to prepare 1L of 1M solution
 Molarity.....0.998 - 1.002
 Pack size: Ampoule
- 1366** **Hydrochloric Acid 0.1MOL Concentrate, Ampoule** OP
 Description: plastic ampoule containing clear colourless liquid
 0.1 mole (3.646g HCl) to prepare 1L of 0.1N solution
 Molarity.....0.0998 - 0.1002
 Pack size: Ampoule
- 1363** **Hydrochloric Acid 0.5MOL Concentrate, Ampoule** OP
 Description: plastic ampoule containing clear colourless liquid
 0.5 mole (18.230g HCl) to prepare 1L of 0.5N solution
 Titer.....0.998 - 1.002
 Pack size: Ampoule

Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation



Simply visit: www.ajaxfinechem.com/Unipure

Hydrofluoric Acid 40%w/w

CAS 7664-39-3
HF = 20.01

U.N Number.....1790
ADG Class.....8
SUB.....6.1
Packing Group.....II



1097 Hydrofluoric Acid 40%w/w

UNIVAR

Description: clear, colourless liquid with a highly corrosive, irritating vapour.
Assay.....39 – 41%

Maximum limit of impurities(%)

H ₂ SiF ₆	0.01	Al.....	0.000005
Cl.....	0.0005	Mn.....	0.00002
PO ₄	0.0005	Pb.....	0.00001
SO ₄ & SO ₃	0.0005	Zn.....	0.00003
As.....	0.000003	K.....	0.00003
Cu.....	0.000005	Ti.....	0.00003
Fe.....	0.00002	Ca.....	0.00003
Mg.....	0.00002	NO ₃	0.0001
Na.....	0.00003	B.....	0.00001
Cr.....	0.000001	Au.....	0.00003
Ni.....	0.00001	Sn.....	0.00003

Pack Size: 500mL

258 Hydrofluoric Acid 50%w/w

UNIVAR

Description: clear, colourless liquid with a highly corrosive, irritating vapour.

Density.....about 1.2g/mL
Assay.....48.0 51.0% w/w

Maximum limit of impurities(%)

R.A.I.....	0.0005	Sr.....	0.000002
H ₂ SiF ₆	0.005	Al.....	0.000005
Cl.....	0.0001	Ge.....	0.000005
PO ₄	0.00005	Mn.....	0.000005
HM(as Pb).....	0.00005	Mo.....	0.000005
SO ₄ & SO ₃	0.0005	Pb.....	0.000005
As.....	0.000005	Tl.....	0.000005
Cu.....	0.000002	V.....	0.000005
Fe.....	0.00002	Zn.....	0.000005
Mg.....	0.00002	Ba.....	0.00001
Na.....	0.00002	Bi.....	0.00001
Ag.....	0.000002	K.....	0.00001
Be.....	0.000002	Ti.....	0.00001
Co.....	0.000002	Zr.....	0.00001
Cr.....	0.000002	Ca.....	0.00005
Li.....	0.000002	Cd.....	0.00001
Ni.....	0.000002		

Pack Size: 500mL, 2.5L

Hydrogen Dioxide (See Hydrogen Peroxide 30% Page 233)

Hydrogen Carboxylic Acid (See Formic Acid 99% Page 208)

Hydrogen Iodide (See Hydriodic Acid 55% Page 228)

Hydrogen Peroxide

CAS 7722-84-1
 $H_2O_2 = 34.01$

U.N Number.....2014
 ADG Class.....5.1
 SUB.....8
 Packing Group.....II



260

Hydrogen Peroxide 30% (100 vol)

UNIVAR

Description: clear liquid.

Density.....about 1.10g/mL
 Assay.....29.0 - 32.0% w/w
 Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.E..... 0.002
 Titratable acid.....0.06 mmol H
 Cl..... 0.00005
 Ca..... 0.00005
 NO₃..... 0.0002
 PO₄..... 0.0002
 SO₄..... 0.0002
 Al..... 0.00003
 As..... 0.0003
 NH₄..... 0.0005
 B..... 0.000005
 Mg..... 0.000005
 Ni..... 0.000005

Na..... 0.001
 Sn..... 0.001
 Ti..... 0.000002
 Au..... 0.000002
 Cu..... 0.000002
 Pb..... 0.000002
 Zn..... 0.000002
 Cr..... 0.000001
 Mn..... 0.000001
 Fe..... 0.00001
 K..... 0.00002
 HM (as Pb)..... 0.0001

Conform to ACS

Physical and Chemical parameters Conform to FCC

Store below 25°C

Decomposition is accelerated by heat.

Pack Size: 500mL, 2.5L, 20L

2430

Hydrogen Peroxide 35% (120 vol)

UNILAB

Density.....about 1.14 g/mL
 Assay.....34.0% w/w min.
 Stabilised with 0.2% orthophosphoric acid
 Store below 25°C
 Decomposition is accelerated by heat.

Pack Size: 500mL, 2.5L, 20L

2288

Hydrogen Peroxide 6%,(20 vol)

LABCHEM

Density.....about 1.02g/mL
 Assay.....6% w/w min.
 Acidity.....To pass test

Pack Size: 500mL, 2.5L

Hydroxyacetic Acid (See Glycolic Acid 70 % W/W Soln Page 217)

2-Hydroxybenzoic Acid (See Salicylic Acid Page 379)

4-Hydroxy-3-Methoxybenzaldehyde (See Vanillin Page 476)

4-Hydroxy-4-Methyl-2-Pentanone (See Diacetone Alcohol Page 166)

4-Hydroxyaniline (See 4-Aminophenol Page 45)

2-Hydroxyethylamine (See Ethanolamine Page 195)

4-Hydroxybutric Lactone (See g-Butyrolactone Page 113)

Hydroxylammonium Chloride

CAS 5470-11-1
NH₂OH.HCl = 69.49

U.N Number.....1759
ADG Class.....8
Packing Group.....III



263 Hydroxylammonium Chloride

UNIVAR

Description: colourless crystals.

Assay.....96.0% min

Maximum limit of impurities(%)

Insol. (in alcohol) To pass test
R.A.I. 0.05
Titratable free acid. 0.25 mmol H
S cpds (as SO₄). 0.005

Fe. 0.0005
H.M. (as Pb). 0.0005
NH₄. 0.1

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

1102 Hydroxylammonium Chloride

UNILAB

Assay.....96% min

Maximum limit of impurities(%)

Sulph. ash. 0.1
Acidity. 30 mmol H
SO₄. 0.02

H.M. & Fe (as Fe)..... 0.005
NH₄. 0.2

Pack Size: 500g

Hydroxylammonium Chloride (See Hydroxylammonium Chloride Page 134)

Hydroxylammonium Sulphate

CAS 10039-54-0
(NH₂OH)₂.H₂SO₄ = 164.10

U.N Number.....2865
ADG Class.....8
Packing Group.....III



1103 Hydroxylammonium Sulphate

UNIVAR

Description: White crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

Fe. 0.0005
Pb. 0.0005
Cl. 0.001

Zn. 0.0005
SO₄. 0.05

Pack size: 100g, 500g, 5Kg

2-Hydroxy-1(2-Hydroxy-4 Sulpho-1Naphylazo)-3 Naphthoic Acid (See Calcon Carboxylic Acid Page 127)

Hydroxy Naphthol Blue

CAS 63451-35-4
MW = 598.50

2613 Hydroxy Naphthol Blue, disodium salt

UNIVAR

λ (max).....650 nm
Suitable for Calcium determinations.

Maximum limit of impurities(%)
Suitable for Ca determination.To pass test

Conforms to ACS

Pack Size: 100g

8-Hydroxyquinoline

CAS 148-24-3
C₉H₇ON = 145.16

265 8-Hydroxyquinoline

UNIVAR

Reagent for Al, Mg, Zn and other metals.

Description: White or cream-coloured crystals, crystalline powder or flakes.

M.P.72.5-74.0°C

Maximum limit of impurities(%)

Insol. (in alcohol)..... 0.05

SO₄..... 0.02

R.A.I..... 0.05

Suitability for Mg detmn.....To pass test

Conforms to ACS

Pack Size: 100g

2-Hydroxymethyl Furan (See Furfuryl Alcohol Page 211)

Hydroquinone (See Quinol Page 373)

4-Hydroxymethylbenzoate (See Methyl 4-Hydroxybenzoate Page 289)

1-Hydroxynaphthalene (See 1-Naphthol Page 299)

2-Hydroxynaphthalene (See 2-Naphthol Page 299)

2-Hydroxypropionic Acid Calcium Salt (See Calcium Lactate Page 124)

2-Hydroxypropionic Acid (See Lactic Acid 85% Page 247)

Hypophosphorous Acid 50% w/w

CAS 6303-21-5
 $H_3PO_2 = 66.00$

1104 Hypophosphorous Acid 50% w/w

LABCHEM

Density.....about 1.22g/mL.
Assay.....49-51%
S.G. @ 20°C.....1.19-1.22 g/mL

Maximum limit of impurities(%)

Na.....0.1
Fe.....0.001

Cl.....0.015

Pack Size: 500mL

Imidazole

CAS 288-32-4
 $C_3H_4N_2 = 68.08$

U.N Number.....3263
ADG Class.....8
Packing Group.....III



3970 Imidazole

UNILAB

Description: White to off-white flakes

Assay.....99.0% min.
M.P.87-89°C
pH 5% Soln.9.5-10.5

Maximum limit of impurities(%)

Sulphated Ash.....0.1
Iron.....0.005

Water.....0.5

Pack size: 500g

2,2-Iminodiethanol (See Diethanolamine Page 174)

Immersion Oil

3282 Immersion Oil

OP

For microscope specimen preparation. PCB content nil;
Fluorescence free to 235nm.
R.I.approx. 1.515

Pack Size: 100mL

IMS (See Methylated Spirits 95% Page 292)

Indanetrione Hydrate (See Ninhydrin Page 307)

Indigo Carmine (CI 73015)

CAS 860-22-0

3224 Indigo Carmine (CI 73015)

OP

Stain for microscopy.
 Redox indicator.
 Transition EMF (@ pH=0).....+0.29V
 Transition EMF (@ pH=7).....- 0.11 V
 Colour change:
 Oxidized (blue) to reduced (yellowish)

Pack Size: 25g

Indole

CAS 120-72-9
 $C_8H_7N = 117.1$

3066 Indole

UNILAB

Description: White crystalline powder
 Assay.....99.0% min.
 Melting point.....50 - 52°C

Pack size: 25g

Indol-3-Yl-Butyric Acid

CAS 133-32-4
 $C_{12}H_{13}O_2N = 203.24$

690 Indol-3-Yl-Butyric Acid

LABCHEM

M.P.124-127°C

Pack Size: 1g

Inositol

CAS 6917-35-7
 $C_6H_6(OH)_6 = 180.16$

2464 Inositol

LABCHEM

M.R.....224 - 226 °C

Maximum limit of impurities(%)

H₂O (K.F)..... 0.5

H.M (as Pb)..... 0.001

Pack Size: 25g

Iodine

CAS 7553-56-2
I = 126.90

U.N Number.....1579
ADG Class.....8
Packing Group.....II



267 Iodine

UNIVAR

Description: brittle plates or small crystals, greyish-violet in colour with a metallic sheen; odour, irritating.
Volatilises slowly at room temperature.

Assay.....99.8% min.

Maximum limit of impurities(%)

Non-vol..... 0.01 Cl & Br (as Cl)..... 0.005

Conforms to ACS

Pack Size: 100g, 500g, 5kg

268 Iodine, Resublimed

UNILAB

Description: brittle plates or small crystals, greyish-violet in colour with a metallic sheen; odour, irritating.

Volatilises slowly at room temperature.

Assay.....99.5 - 100.5%

Maximum limit of impurities(%)

Non-vol..... 0.1 Cl & Br (as Cl)..... 0.025

Conforms to BP

Pack Size: 100g, 500g, 5kg

925 Iodine, Resublimed

LABCHEM

Assay.....99.0% min.

Pack Size: 100g

1396 Iodine 0.05mol Concentrate, Ampoule

OP

Description: plastic ampoule containing clear brown liquid
0.05 mole (12.690g I₂) to prepare 1L of 0.1N solution

Titer.....0.998 - 1.002

Pack size: Ampoule

Iodine Solution (WIJS)

U.N Number.....2920
ADG Class.....8
SUB.....3
Packing Group.....II



2614 Iodine Solution (WIJS)

LABCHEM

For the determination of Iodine Value for fats & oils.
Molarity.....0.099 - 0.101mole/litre

Pack Size: 500mL, 2.5L

Iodine Trichloride

CAS 865-44-1
 $\text{ICl}_3 = 233.26$

U.N Number.....2923
 ADG Class.....8
 SUB.....6.1
 Packing Group.....III



1107 Iodine Trichloride

UNIVAR

Description: orange-red crystalline masses with pungent irritating fumes.
 Assay.....95.0% min.

Store below 4°C (refrigerate)

Pack Size: 100g

Iodoethane

CAS 75-03-6
 $\text{C}_2\text{H}_5\text{I} = 155.97$

U.N Number.....1993
 ADG Class.....3
 Packing Group.....III



1108 Iodoethane

UNILAB

Density.....about 1.94g/mL.
 R.Iabout 1.513
 B.R.(95% min.).....69 – 73°C
 Assay(GC).....99% min.

Maximum limit of impurities(%)
 Non-vol..... 0.01

Pack Size: 100mL

Iodoform

CAS 75-47-8
 $\text{CHI}_3 = 393.73$

821 Iodoform

UNILAB

M.P.about 115°C (dec)
 Assay.....99.0% min.

Maximum limit of impurities(%)
 R.A.I..... 0.2 L.O.D..... 1.0

Pack Size: 500g, 5kg

Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Safe for the environment

- <> Non-Hazardous
- <> Harmless

Cat-No **Pack Size**
8745 500g, 1kg, 3kg, 5kg, 25kg

Di-Iodomethane

CAS 75-11-6
CH₂I₂ = 267.84

782 Di-Iodomethane

UNILAB

Yellow to reddish coloured heavy liquid. B.P. about 181°C. Decomposes upon exposure to light to form iodine in solution.

Density.....3.315 - 3.325g/mL
R.I.1.735 - 1.748
Maximum limit of impurities(%)
Non-vol..... 0.02

Pack Size: 100mL, 500mL, 25kg

Iodomethane

CAS 74-88-4
CH₃I = 141.94

U.N Number.....2644
ADG Class.....6.1
Packing Group.....I



269 Iodomethane

UNILAB

Reagent for tertiary amines.
Stabilized with silver foil.

Density @ 20°C.....2.27 - 2.28 g/mL.
R.I.about 1.531
Assay.....(GC) 99% min.

Maximum limit of impurities(%)
Water(K.F.)..... 0.1

Pack Size: 100mL

Iodometric Indicator (See Vitex Indicator Page 476)

IPA (See Propan-2-Ol Page 368)

Iron

CAS 7439-89-6
Fe = 55.85

2462 Iron-High Purity

LABCHEM

High purity metallic iron in common form of chips wire or powder.
Assay.....99% min.

Maximum limit of impurities(%)		
Insoluble in HCl.....	0.5	Ni..... 0.05
As.....	0.0005	Pb..... 0.002
Cu.....	0.01	Zn..... 0.005
Mn.....	0.1	S..... 0.01

Pack Size: 100g

596 Iron Filings 5-12 Mesh TECHNICAL

Pack Size: 500g, 25kg

777 Iron powder TECHNICAL

Assay (total Fe) typical.....98% min.

Assay (Fe metal) typical.....96.5% min.

Maximum limit of impurities(%)

C (typical)..... 0.2

S..... 0.015

P..... 0.015

Pack Size: 500g

Iron 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



2638 Iron 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Iron standard, ready for use.

Fe in 0.5% Nitric acid.

Pack Size: 100mL

Iron AAS Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



2629 Iron AAS Standard SPECTROSOL

A 1000 ppm Iron standard, ready for use.

Each mL contains 1.00+/-0.005mg of iron in 0.5% Nitric acid.

Pack Size: 500mL

Iron(II) Chloride

CAS 13478-10-9
FeCl₂.4H₂O = 198.81

U.N Number.....3260

ADG Class.....8

Packing Group.....III



2363 Iron(II) Chloride UNILAB

Assay.....(as FeCl₂) 63% min.

Maximum limit of impurities(%)

As..... 0.001

Mn..... 0.07

Cu..... 0.01

Fe(III)..... 0.3

Pb..... 0.005

Pack Size: 500g, 10kg

Iron(III) Chloride

CAS 7705-08-0
FeCl₃ = 162.21

U.N Number.....1773
ADG Class.....8
Packing Group.....III



220 Iron(III) Chloride, Anhydrous

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)
Fe(II)..... 0.6

Pack Size: 250g, 5kg

Iron (III) Chloride

CAS 10025-77-1
FeCl₃.6H₂O = 270.30

743 Iron (III) Chloride, Hexahydrate

UNILAB

Assay.....96% min.

Maximum limit of impurities(%)
Free Cl..... 0.005 Fe(II)..... 0.1 max

Pack Size: 500g, 5kg, 25kg

Iron(III) Citrate

CAS 2338-05-8

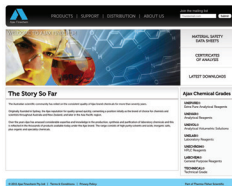
1523 Iron(III) Citrate, Granular

LABCHEM

Approx.C₆H₅O₇Fe.3H₂O
Contains.....about 18% Fe.

Maximum limit of impurities(%)
Ca. 0.1 H.M. (as Pb)..... 0.005
Na. 0.05 Cl. 0.05
K. 0.001 SO₄..... 0.3

Pack Size: 500g



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Iron(III) Nitrate

CAS 7782-61-8
 $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} = 404.00$

U.N Number.....1466
 ADG Class.....5.1
 Packing Group.....III



827

Iron(III) Nitrate

UNIVAR

Description: pale mauve coloured, moist crystals. Hydrolyses, becoming brown during storage.

Assay.....98.0-101.0%

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.0005

SO₄..... 0.01

Ca..... 0.01

Mg..... 0.005

K..... 0.005

Na..... 0.05

Conforms to ACS

Store below 25°C in air-tight container

Pack Size: 500g, 5kg

1675

Iron(III) Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Subs. not pptd. by NH₄OH..... 0.5

Store below 25°C in air-tight container.

Pack Size: 500g

927

Iron(III) Nitrate

LABCHEM

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

Store below 25°C in air-tight container.

Pack Size: 500g

Iron(II) Oxalate

CAS 516-03-0
 $(\text{COO})_2\text{Fe} \cdot 2\text{H}_2\text{O} = 179.90$

1061

Iron(II) Oxalate

LABCHEM

Assay.....99% min.

Pack Size: 500g

Iron(III)Oxide

CAS 1309-37-1

1060 Iron(III)Oxide,Red

LABCHEM

Assay.....(as Fe₂O₃) about 81%

Pack Size: 500g

Iron(II) Sulphate (Ferrous Sulphate)

CAS 7782-63-0

FeSO₄·7H₂O = 278.01

226 Iron(II) Sulphate (Ferrous Sulphate)

UNIVAR

Description: green or bluish-green crystals or crystalline powder.

Assay.....99.0% min.
pH(5%, 20°C).....3-4

Maximum limit of impurities(%)

Insol..... 0.01
Cl..... 0.001
PO₄..... 0.001
Total N..... 0.001
Cu..... 0.001
Fe(III)..... 0.025
Mn..... 0.05
Zn..... 0.005

Ca..... 0.005
Subs. not ppt. by NH₄OH..... 0.05
As..... 0.0002
Na..... 0.002
K..... 0.002
Pb..... 0.0007
Mg..... 0.002

Conforms to ACS

Pack Size: 500g, 5kg

227 Iron(II) Sulphate

UNILAB

Description: bluish-green crystals or light green,crystalline powder; odourless. Efflorescent in air. Oxidises in moist air, becoming brown.

Assay.....98.0 - 105.0%
pH(5% soln. @ 20°C).....3.0 - 4.0

Maximum limit of impurities(%)

Clarity of soln..... To pass test
Fe (III)..... 0.5
H.M. (as Pb)..... 0.005

Mn..... 0.1
Zn..... 0.05
Cl..... 0.03

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

Iron(II) Sulphide

CAS 1317-37-9

FeS = 87.92

228 Iron(II) Sulphide, Sticks

TECHNICAL

Suitable for H₂S generation.

Pack Size: 1kg, 3kg

Iron(III) Sulphate

CAS 10028-22-5
 Approx. $\text{Fe}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$
 ($\text{Fe}_2(\text{SO}_4)_3 = 399.88$)

1268 Iron(III) Sulphate, Powder

UNILAB

Assay(as Fe).....21-23%

Maximum limit of impurities(%)

Cl. 0.005
 NO_3 0.02
 Fe(II)..... 0.02
 As 0.0005
 Cu 0.002

Zn 0.005
 Subs. not pptd. by NH_4OH , as
 sulphates..... 0.05
 Insol in HCl 0.01
 PO_4 0.003

Pack Size: 500g, 25kg

Isatin

CAS 91-56-5
 $\text{C}_8\text{H}_5\text{NO}_2 = 147.14$

1109 Isatin (Chromatographic spray reagent for amino acid)

UNILAB

Assay.....98% min.
 M.P.199 – 202°C

Pack Size: 25g, 100g

1,3-Isobenzofurandione (See Phthalic Anhydride Page 336)

Isobutanol (See 2-Methylpropan-1-ol Page 293)

Isobutyl Alcohol (See 2-Methylpropan-1-ol Page 293)

Isobutyl Methyl Ketone (See 4-Methylpentan-2-One Page 293)

Iso-Octane (See 2-2-4-Trimethylpentane Page 461)

Isophorone

CAS 78-59-1
 Synonyms: 3,5,5-Trimethyl-2-Cyclohexen-1-One
 $\text{C}_9\text{H}_{14}\text{O} = 138.21$

122 Isophorone For Synthesis

LABCHEM

Assay.....>98%
 Density @ 20°C.....0.920 – 0.922
 R.I. @ 20°C.....1.4759 – 1.4761

Pack Size: 500 mL

Isopropanol (See Propan-2-ol Page 368)

Isopropyl Alcohol (See Propan-2-ol Page 368)

Iso-Propyl Ether (See Di-Iso-Propyl Ether Page 187)

2-iso-Propyl-5-Methylphenol (See Thymol Page 449)

Janus Green

CAS 2869-83-2
C₃₀H₃₁ClN₆ = 511.07

3225 Janus Green

LABCHEM

Description: Dark brown, dark green, or black powder
Dye content.....50% min.

Pack size: 25g

Jenner's Stain

3226 Jenner's Stain

OP

Stain for microscopy.

Pack Size: 25g

Kaolin, Acid Washed

CAS 1332-58-7

1111 Kaolin, Acid Washed

UNILAB

Heavy powder

Maximum limit of impurities(%)

Sol in acid (as SO₄)..... 0.1
Ca..... 0.025
H.M (as Pb)..... 0.0025
Cl..... 0.025

SO₄..... 0.1
Adsorption power..... to pass test
Swelling power..... to pass test
Organic Impurities..... to pass test

Chemical and physical parameters conform to BP

Pack Size: 500g

Karl Fischer Reagent

3600 Karl Fischer Reagent Single Solution Pyridine Free 5mg/ml

LABCHEM

Titer Strength.....5.0 mg/ml min.
Suitability.....To pass test

Pack Size: 1L

Kieselguhr

CAS 61790-53-2

1112 Kieselguhr, Acid washed LABCHEM

Maximum limit of impurities(%)		
Soluble in HCl (25%)	.....1	H.M.(as Pb)..... 0.005
L.O.I.	..... 0.1	Cl. 0.02
Fe.	..... 0.05	SO ₄ 0.05

Pack Size: 500g, 10kg

Kjeldahl Catalyst Tablets

2206 Kjeldahl Catalyst Tablets, High Selenium LABCHEM

Each tablet contains 1.0g sodium sulphate anhydrous and the equivalent of 0.05g selenium.

Pack Size: 1000 tablets

1509 Kjeldahl Catalyst Tablets, Low Selenium LABCHEM

Each tablet contains 1.0g sodium sulphate anhydrous and the equivalent of 0.01g selenium.

Pack Size: 1000 tablets

Lactic Acid

CAS 589-82-3

CH₃CHOHCOOH = 90.08

270 Lactic Acid 85% UNIVAR

Description: clear, viscous liquid; 10-15% is present as anhydride. Density about 1.20g/mL

Assay.....85.0 - 90.0%

Maximum limit of impurities(%)		
R.A.I.	..... 0.02	Fe. 0.0005
Cl.	..... 0.001	H.M. (as Pb)..... 0.0005
SO ₄	..... 0.002	Subs. darkened by H ₂ SO ₄.....To pass test

Conforms to ACS

Pack Size: 500mL, 2.5L

271 Lactic Acid 85% UNILAB

Density.....about 1.20g/mL

Assay.....85.0% w/w min.

Maximum limit of impurities(%)		
Sulph. ash	..... 0.05	
Cl.	..... 0.01	Fe. 0.001
SO ₄	..... 0.01	H.M. (as Pb)..... 0.001

Pack Size: 500mL

5509 Lactic Acid 90% UNIVAR

Description: clear, viscous liquid; 10-15% is present as anhydride. Density about 1.20g/mL
 Assay.....85.0 - 90.0%

Maximum limit of impurities(%)
 R.O.I..... 0.05
 Sugars..... to pass test
 Cl..... to pass test

SO₄..... to pass test
 H.M. (as Pb)..... 0.001

Conforms to ACS

Pack Size: 20L

Lactophenol

U.N Number.....2821
 ADG Class.....6.1
 Packing Group.....III



3227 Lactophenol LABCHEM

Pack Size: 250mL

Lactophenol Cotton Blue Stain

U.N Number.....2927
 ADG Class.....6.1
 SUB.....8
 Packing Group.....II



1835 Lactophenol Cotton Blue Stain LABCHEM

0.05% Aniline blue in 20% Lactic acid, 40% Glycerol, and 20% Phenol

Pack Size: 100mL, 500mL

Lactose

CAS 63-42-3
 $C_{12}H_{22}O_{11} \cdot H_2O = 360.32$

871 Lactose UNIVAR

Description: white crystalline powder.

Maximum limit of impurities(%)
 H₂O..... 4.0 - 6.0%
 Insol..... 0.005
 Sulph. ash..... 0.03
 Dextrose.....To pass test

Sucrose.....To pass test
 H.M. (as Pb)..... 0.0005
 Fe..... 0.0005

Pack Size: 500g, 5kg

1678 Lactose UNILAB

A white or almost white, crystalline powder; odourless.
 Spec. rotn. (dry basis).....+54.4 to +55.9o
 Water(K.F.).....4.5 – 5.5%

Maximum limit of impurities(%)

Clarity odour & colour soln. To pass test
 Acidity or alkalinity. To pass test
 Sulphated ash..... 0.1
 H.M.(as Pb)..... 0.0005

Proteins & light absorbing impurities.
 Absorbance 300-270 nm. 0.07
 220-210 nm. 0.25

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Laevulose (See D(-)-Fructose Page 209)

Lanolin Anhydrous

CAS 8006-54-0

1113 Lanolin Anhydrous UNILAB

M.P.38 – 44°C
 Acid value.....1.0 max.
 Peroxide value.....20 max.
 Saponification value.....90 – 105

Maximum limit of impurities(%)

L.O.D..... 0.5
 Sulphated ash..... 0.15

Acidity/alkalinity.....To pass test

Pack Size: 500g

Lanthanum 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2657 Lanthanum 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Lanthanum standard, ready for use.
 La in 0.5% hydrochloric acid.

Pack Size: 100mL

Lanthanum AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2634 Lanthanum AAS Standard SPECTROSOL

A 1000 ppm Lanthanum standard, ready for use. Each mL contains 1.00 +/-0.005mg of La in 0.5% hydrochloric acid.

Traceable to NIST

Pack Size: 500mL

Lanthanum Chloride

CAS 10025-84-0
LaCl₃·7H₂O = 371.38

2333 Lanthanum Chloride

UNIVAR

Description: colourless crystals.

Assay.....(as LaCl₃) 64.5 - 70.0%

Maximum limit of impurities(%)

Insol..... 0.01

Ca..... 0.001

Mg..... 0.0001

Conforms to ACS

Pack Size: 100g, 5kg

Lanthanum Oxide

CAS 1312-81-8
La₂O₃ = 325.82

1539 Lanthanum Oxide

UNILAB

Assay.....98% min

Maximum limit of impurities(%)

Cu..... 0.005

Fe..... 0.005

Ni..... 0.005

Pb..... 0.005

Pack Size: 100g, 500g, 5kg

2493 Lanthanum Oxide

LABCHEM

Pack Size: 500g

Lauric Acid

CAS 143-07-7
CH₃(CH₂)₁₀COOH = 200.33

1735 Lauric Acid

LABCHEM

Assay(C₁₂).....about 98%

M.R.43-44°C

Acid Value.....278 - 282mg KOH/g

Maximum limit of impurities(%)

Iodine Value..... 0.2

Unsapon Matter..... 0.5

Pack Size: 500g

Lauth's Violet (See Thionin Page 448)

L-Dopa (See 3,(3-4 Dihydroxy Phenyl) L-Alanine Page 178)

Lead

CAS 7439-92-1
Pb = 207.2

1114 **Lead, Foil** UNIVAR

Description: soft, bluish grey metal.

Maximum limit of impurities(%)

Ag.	0.0002	Fe.	0.001
As.	0.001	Ni.	0.001
Bi.	0.02	Sb.	0.005
Cu.	0.001		

Pack Size: 500g

597 **Lead Shot** TECHNICAL

About 3-4mm diameter

Pack Size: 500g

Lead 1000ppm Single Element ICP Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2639 **Lead 1000ppm Single Element ICP Standard** UNIPURE

A 1000 ppm Lead standard, ready for use.
Pb in 0.5% Nitric acid.

Pack Size: 100mL

Lead AAS Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2615 **Lead AAS Standard** SPECTROSOL

A 1000 ppm lead standard, ready for use. Each mL contains 1.00 +/-0.005mg of Pb in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: www.ajaxfinechem.com/Univar

Lead(II) Acetate

CAS 6080-56-4
(CH₃COO)₂Pb.3H₂O = 379.3

U.N Number.....1616
ADG Class.....6.1
Packing Group.....III



273 Lead(II) Acetate

UNIVAR

Description: colourless or white crystals, or crystalline powder.

Assay.....99.0 – 103.0%

Maximum limit of impurities(%)

Insol. in acetic acid..... 0.01

Cl..... 0.0005

NO₃..... 0.005

Cu..... 0.002

Fe..... 0.001

Ca..... 0.005

Cd..... 0.0005

K..... 0.005

Mg..... 0.005

Na..... 0.01

Zn..... 0.0005

Conforms to ACS

Pack Size: 500g

274 Lead(II) Acetate

UNILAB

Assay.....99.5 - 104.5%

Maximum limit of impurities(%)

Insol..... 0.05

Cl..... 0.035

Cu..... 0.01

Fe..... 0.01

Pack Size: 500g, 5kg

275 Lead(II)Acetate

TECHNICAL

Assay.....98.5% min

Pack Size: 500g

Lead Acetate

CAS 51404-69-4
Approx. (CH₃COO)₂Pb.Pb(OH)₂

U.N Number.....2291
ADG Class.....6.1
Packing Group.....III



289 Lead Acetate, Basic, Powder

UNIVAR

For sugar analysis according to Horne.

Description: heavy white powder.

Basic lead (as PbO).....33.0% min

Total lead (as PbO).....75% min

Maximum limit of impurities(%)

Insol. (in CH₃COOH)..... 0.02

Insol. (in H₂O)..... 1.0

L.O.D..... 1.0

Cl..... 0.003

NO₃..... 0.003

Cu..... 0.002

Fe..... 0.002

Ca..... 0.005

Cd..... 0.001

Co..... 0.001

K..... 0.01

Mg..... 0.005

Na..... 0.01

Conform to ACS

Pack Size: 500g, 5kg

Lead Bromide

CAS 10031-22-8
PbBr₂ = 367.01

U.N Number.....2291
ADG Class.....6.1
Packing Group.....III



2304 Lead Bromide

LABCHEM

Assay (ex Pb).....99% min.

Pack Size: 500g

Lead Carbonate

CAS 1319-46-6
Approx ²PbCO₃.Pb(OH)₂ = 775.63

U.N Number.....3288
ADG Class.....6.1
Packing Group.....III



1116 Lead Carbonate,Basic

UNILAB

Assay(as Pb).....77 - 80% min

Maximum limit of impurities(%)

Fe..... 0.005
Zn..... 0.005
Cl..... 0.03

Cu..... 0.005
Insol in CH₃COOH..... 0.02
Nitrate + Nitrite..... 0.005

Pack Size: 500g

Lead(II) Chloride

CAS 7758-95-4
PbCl₂ = 278.1

U.N Number.....2291
ADG Class.....6.1
Packing Group.....III



1117 Lead(II) Chloride

UNILAB

Assay.....98.0% min

Maximum limit of impurities(%)

NO₃..... 0.01

Fe..... 0.005

Pack Size: 500g

Laboratory Reagents

UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

Lead Dioxide

CAS 1309-60-0
PbO₂ = 239.2

U.N Number.....1872
ADG Class.....5.1
Packing Group.....III



285 Lead Dioxide

UNIVAR

Description: dark brown amorphous powder.

Assay.....96% min

Maximum limit of impurities(%)

Insol. (in Nitric Acid).....	0.1	Mn.....	0.002
Cl.....	0.1	Cu.....	0.02
SO ₄	0.05	Ni.....	0.02

Pack Size: 100g, 500g

1118 Lead Dioxide

UNILAB

Particle size approx.....0.15 mm max.

Assay.....95%

Maximum limit of impurities(%)

Halides (as Cl).....	0.2	SO ₄	0.1
Insol in HCl.....	0.2		

Pack Size: 500g

Lead Hydroxide Carbonate (See Lead Carbonate Basic Page 253)

Lead Iodide

CAS 10101-63-0
PbI₂ = 461.0

U.N Number.....2291
ADG Class.....6.1
Packing Group.....III



278 Lead Iodide

LABCHEM

Pack Size: 100g

Lead Monoxide, Litharge

CAS 1317-36-8
PbO = 223.2

U.N Number.....3077
ADG Class.....9
Packing Group.....III



284 Lead Monoxide, Litharge

UNILAB

Assay.....98% min

Maximum limit of impurities(%)

L.O.I.....	0.5	Fe.....	0.02
------------	-----	---------	------

Pack Size: 500g, 5kg, 25kg

Lead(II) Nitrate

CAS 10099-74-8
 $Pb(NO_3)_2 = 331.2$

U.N Number.....1469
 ADG Class.....5.1
 SUB.....6.1
 Packing Group.....II



280

Lead(II) Nitrate

UNIVAR

Description: white crystals or crystalline powder.

Assay.....99.0% min

Maximum limit of impurities(%)

Insol..... 0.005
 Cl..... 0.001
 Cu..... 0.002
 Fe..... 0.001

Ca..... 0.005
 K..... 0.005
 Na..... 0.02

Conforms to ACS

Pack Size: 500g, 5kg

281

Lead(II) Nitrate

UNILAB

Assay.....99.0% min

Maximum limit of impurities(%)

Cl..... 0.01

Fe..... 0.002

Pack Size: 500g, 5kg

932

Lead(II) Nitrate

LABCHEM

Assay.....98.0% min

Maximum limit of impurities(%)

Cl..... 0.01

Fe..... 0.01

Pack Size: 500g

Lead Oxide, (red)

CAS 1314-41-6
 $Pb_3O_4 = 685.6$

U.N Number.....1479
 ADG Class.....5.1
 Packing Group.....III



748

Lead Oxide, (red lead)

UNIVAR

Description: heavy, red powder.

Assay.....96% min

Maximum limit of impurities(%)

Insol. (in $HNO_3-H_2O_2$)..... 0.1
 Cl..... 0.01

Matter not pptd by H_2S (as SO_4)..... 0.5

Pack Size: 500g, 5kg

1119 Lead Oxide(red lead)

UNILAB

PbO.....approx. 15%
 Assay.....85.0% min

Maximum limit of impurities(%)

Insol. (in acid)..... 0.5 Cl. 0.02

Pack Size: 500g**Lead (II) Oxide** (See Lead Monoxide Litharge Page 254)**Lead (IV) Oxide** (See Lead Dioxide Page 254)**Lead Oxide Brown** (See Lead Dioxide Page 254)**Lead Oxide Yellow** (See Lead Monoxide Litharge Page 254)**Lead Peroxide** (See Lead Dioxide Page 254)**Lead Sub-Acetate** (See Lead Acetate Basic Pdr Page 252)**Lead Sulphate**

CAS 7446-14-2
 PbSO₄ = 303.25

U.N Number.....2291
 ADG Class.....6.1
 Packing Group.....III

**221 Lead Sulphate**

UNILAB

Assay.....99% min

Maximum limit of impurities(%)

Insol in Amm Acet. 0.1 max. LOI. 0.5
 Cl. 0.005 Fe. 0.005 max.

Pack Size: 500g**Lead Tetroxide** (See Lead Oxide Red Lead Page 255)**Leishman's Stain**

CAS 12627-53-1

3228 Leishman's Stain

OP

Stain for microscopy. A neutral dye suitable to differentiate & identify leucocytes, malarial parasites & trypanosomes.
 Lambda max 642 (522)nm in Methanol.

Pack Size: 25g

Leishman Stain Solution

U.N Number.....1230
 ADG Class.....3
 SUB.....6.1
 Packing Group.....II



1836 Leishman Stain Solution

LABCHEM

0.25% in Methanol

Pack Size: 1L, 5L

L-Leucine

CAS 61-90-5
 $C_6H_{13}NO_2 = 131.2$

2019 L-Leucine

UNIVAR

Description: White crystalline powder

Assay.....99.0% min.

Specific rotation.....+14.9 to +16.5°

Maximum limit of impurities(%)

Fe.....0.005

As.....0.0003

H.M. (as Pb).....0.003

L.O.D.....0.1

Pack size: 50g

Levodopa (See 3,(3-4 Dihydroxy Phenyl) L-Alanine Page 178)

Light Green (C.I. 42095)

CAS 5141-20-8
 $C_{37}H_{34}N_2O_9S_3Na_2 = 792.9$

3230 Light Green (C.I. 42095)

OP

Description: Dark reddish powder

Absorption maximum.....629 – 634nm

Pack size: 10g

Lime (See Calcium Oxide Lump Page 125)

Lissamine Green SF (See Light Green (CI 42095) Page 257)

Litharge (See Lead Monoxide Litharge Page 254)

Lithium 1000ppm Single Element ICP Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2658 Lithium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Lithium standard, ready for use.
Li in 0.5% nitric acid.

Pack Size: 100mL

Lithium AAS Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2616 Lithium AAS Standard

SPECTROSOL

A 1000 ppm Lithium standard, ready for use. Each mL
contains 1.00 +/-0.005mg of Li in 0.5% nitric acid.

Traceable to NIST

Pack Size: 500mL

Lithium Bromide

CAS 7550-35-8
LiBr = 86.84

2367 Lithium Bromide

UNILAB

Assay(after drying).....99.0% min

Maximum limit of impurities(%)

L.O.D. (@ 400°C)..... 0.5
Cl..... 0.15
SO₄..... 0.01
Ca..... 0.005

Fe..... 0.001
K..... 0.05
Mg..... 0.002

Pack Size: 100g

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
Discover more: www.ajaxfinechem.com/Labchem

Lithium Carbonate

CAS 554-13-2
Li₂CO₃ = 73.89

1289 Lithium Carbonate

UNILAB

Description: white powder.

Assay.....98.5 - 100.5%

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test

As..... 0.0002

Ca..... 0.0200

Cl..... 0.0200

Fe..... 0.0020

H.M. (as Pb)..... 0.0020

K..... 0.0300

Mg..... 0.0150

Na..... 0.0300

SO₄..... 0.0200

Chemical and physical parameters conform to BP

Pack Size: 500g

Lithium Chloride

CAS 7447-41-8
LiCl = 42.40

292 Lithium Chloride, dried

UNILAB

Assay.....98.0% min

Maximum limit of impurities(%)

SO₄..... 0.03

Ca..... 0.1

Fe..... 0.001

K..... 0.01

Na..... 0.05

H.M. (as Pb)..... 0.001

Pack Size: 100g, 500g,5kg

Lithium Fluoride

CAS 7789-24-4
LiF = 25.94

U.N Number.....3288

ADG Class.....6.1

Packing Group.....II



293 Lithium Fluoride

UNIVAR

Description: White fluffy powder

Assay.....99.5% min.

Maximum limit of impurities(%)

Mg..... 0.001

Ca..... 0.05

Fe..... 0.01

H.M. (as Pb)..... 0.0005

Cl..... 0.01

SO₄..... 0.01

Mn..... 0.0005

Cu..... 0.0005

Cd..... 0.0005

Pack size: 100g, 500g

Lithium Hydroxide

CAS 1310-66-3
LiOH.H₂O = 41.96

U.N Number.....2680
ADG Class.....8
Packing Group.....II



294 Lithium Hydroxide

UNILAB

Assay.....98.0% min

Maximum limit of impurities(%)

K.....0.05

Li₂CO₃......1

Cl.....0.02

SO₄.....0.03

Ca.....0.02

Fe.....0.001

Na.....0.05

Pack Size: 500g,5kg

Lithium Nitrate

CAS 7790-69-4
LiNO₃ = 68.95

U.N Number.....2722
ADG Class.....5.1
Packing Group.....III



1069 Lithium Nitrate

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....0.01

SO₄.....0.2

Fe.....0.005

Water.....1.0

Alkalinity.....0.05

Pack Size: 500g

Lithium Sulphate

CAS 10377-48-7
Li₂SO₄.H₂O = 127.95

624 Lithium Sulphate

UNIVAR

Description: white crystals or crystalline powder.

Assay.....99.0% min.

L.O.D. (150°C).....13.0 – 15.0%

Maximum limit of impurities(%)

Insol.....0.01

Cl.....0.002

NO₃.....0.001

Fe.....0.001

H.M. (as Pb).....0.001

K.....0.05

Na.....0.05

Conforms to ACS

Pack Size: 500g

Lithium Sulphate

CAS 12007-60-2

 $\text{Li}_2\text{B}_4\text{O}_7 = 169.16$ **773**

Lithium Sulphate

UNIVAR

Description: light, white powder.

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl. 0.01

Ca. 0.009

Fe. 0.01

H.M. (Pb). 0.005

K. 0.01

Mg. 0.05

Na. 0.05

Sr. 0.05

Pack Size: 500g, 5kg

Litmus

CAS 1393-92-6

1203

Litmus

LABCHEM

Description: Blue powder

Visual transition interval: pH 4.5 (red) to pH 8.3 (blue)

Pack size: 100g, 500g

20-EACH

Litmus Paper Blue

LABCHEM

For indication of acidity of chemical solution.

Red litmus paper turns red when in contact with acidic solution.

Pack Size: 200 Leaves

19-EACH

Litmus Paper Red

LABCHEM

For indication of alkalinity of chemical solution.

Red litmus paper turns blue when in contact with alkaline solution.

Pack Size: 200 Leaves

Lugol's Iodine

1833

Lugol's Iodine Solution

LABCHEM

This is used generally to prepare Gram's stain (1 part Lugol's in 5 parts water)

Iodine.....1% max.

Potassium Iodide.....1% max.

Pack Size: 1L, 5L

L-Lysine Monohydrochloride

CAS 657-27-2

$\text{NH}_2(\text{CH}_2)_4\text{CH}(\text{NH}_2)\text{COOH}\cdot\text{HCl} = 182.65$

2469 L-Lysine Monohydrochloride

UNILAB

Assay(L-form).....98.5% min
 Rotn. (C=8, 6NHCl).....+ 19.0 to 21.5°

Maximum limit of impurities(%)

SO_4 0.03
 Fe..... 0.003
 H.M. (as Pb)..... 0.0010

LOD..... 0.5
 ROI..... 0.1
 As..... 0.0001

Pack Size: 25g

Magnesium 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2640 Magnesium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Magnesium standard, ready for use.
 Mg in 0.5% Nitric acid.

Pack Size: 100mL

Magnesium AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2604 Magnesium AAS Standard

SPECTROSOL

1000 ppm magnesium standard, ready for use. Each mL contains 1.00mg +/- 0.005 mg of Mg in 0.5% nitric acid.
 Traceable to NIST

Pack Size: 500mL

Magnesium, powder

CAS 7439-95-4
 Mg = 24.31

U.N Number.....1418
 ADG Class.....4.3
 SUB.....4.2
 Packing Group.....II



677 Magnesium, powder

LABCHEM

Assay.....95% min.

Maximum limit of impurities(%)

Fe..... 0.05
 Si..... 0.05
 Cu..... 0.02

Mn..... 0.1
 Al..... 0.05
 Ni..... 0.002

Pack Size: 100g, 5kg

Magnesium Ribbon

CAS 7439-95-4
Mg = 24.31

U.N Number.....1869
ADG Class.....4.1
Packing Group.....III



2289 Magnesium Ribbon

LABCHEM

Pack Size: 25g, 100g

Magnesium Turnings

CAS 7439-95-4
Mg = 24.31

U.N Number.....1869
ADG Class.....4.1
Packing Group.....III



1121 Magnesium Turnings, Grignard Reaction

LABCHEM

Assay.....99.5% min.

Maximum limit of impurities(%)

Insol in HCl.....	0.01	Mn.....	0.01
Al.....	0.01	Na.....	0.01
Cu.....	0.01	Ni.....	0.01
Fe.....	0.05	Si.....	0.01

Pack Size: 500g, 5kg

Magnesium Acetate

CAS 142-72-3
(CH₃COO)₂Mg.4H₂O = 214.46

295 Magnesium Acetate

UNIVAR

Description: colourless crystals.

Assay.....99.5-102.0%
pH(5%, 20°C).....8-9

Maximum limit of impurities(%)

Insol.....	0.005	H.M. (as Pb).....	0.0005
Cl.....	0.001	K.....	0.001
N cpds (as N).....	0.001	Mn.....	0.001
SO ₄	0.005	Na.....	0.001
Ba.....	0.001	Sr.....	0.001
Ca.....	0.01	Cd.....	0.0005
Fe.....	0.0005		

Conforms to ACS

Pack Size: 500g

1371 Magnesium Acetate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.02	Fe.....	0.001
SO ₄	0.03	H.M. (as Pb).....	0.002

Pack Size: 500g

Magnesium Chloride

CAS 7791-18-6
MgCl₂·6H₂O = 203.30

296 Magnesium Chloride UNIVAR

Description: colourless hygroscopic crystals.
Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol.....	0.005		
NO ₃	0.001	SO ₄	0.002
PO ₄	0.0005	Cu.....	0.0002
Zn.....	0.0005	Fe.....	0.0002
Mn.....	0.0005	Pb.....	0.0002
H.M (as Pb).....	0.0005	K.....	0.001
As.....	0.0003	Na.....	0.001
Ba.....	0.002	Sr.....	0.001
NH ₄	0.002	Ca.....	0.01

Chemical and physical parameters conform to FCC
Conforms to ACS

Pack Size: 500g, 5kg, 25kg

297 Magnesium Chloride UNILAB

Description: colourless crystals; hygroscopic.
Assay.....98.0 - 101.0%

Maximum limit of impurities(%)

Acidity or alkalinity.....	0.6 mmol H or OH		
Appearance of solution.....	to pass test	H.M. (as Pb).....	0.001
SO ₄	0.01	Br.....	0.05
As.....	0.0002	Al.....	0.0001
Ca.....	0.1	K.....	0.05
Fe.....	0.001	Water.....	.51.0-55.0

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

Magnesium Carbonate Light

CAS 12125-28-9
Approx. 3MgCO₃·Mg(OH)₂·3H₂O

1122 Magnesium Carbonate Light UNILAB

Description: white powder; odourless.
Bulk density.....about 83g/L
Assay(as MgO).....40.0 - 45.0%

Maximum limit of impurities(%)

Insol. (in CH ₃ COOH).....	0.05		
Sol. (in H ₂ O).....	1.0	As.....	0.0002
Colour of soln.....	To pass test	Ca.....	0.75
Cl.....	0.07	Fe.....	0.040
SO ₄	0.3	H.M. (as Pb).....	0.002

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 20kg

Magnesium Hydroxide

CAS 1309-42-8
Mg(OH)₂ = 58.33

1372 Magnesium Hydroxide

UNILAB

Description: white, fine, amorphous powder; odourless.

Assay.....95.0 - 100.5%
L.O.I. at 800°C.....30.0- 33.0%
L.O.D. at 105°C,2h.....2.0% max

Maximum limit of impurities(%)

Insol. (in CH₃COOH)..... 0.10
Soluble salts..... To pass test
Colour of soln..... To pass test
Ca..... 1.5

CO₃.....To pass test
H.M. (as Pb)..... 0.0020
Lead..... 0.0010

Chemical and physical parameters conform to USP

Pack Size: 500g, 25kg

Magnesium Nitrate

CAS 13446-18-9
Mg(NO₃)₂.6H₂O = 256.41

U.N Number.....1474

ADG Class.....5.1

Packing Group.....III



299 Magnesium Nitrat

UNIVAR

Description: colourless or white deliquescent crystals or crystalline masses.

Assay.....98.0 - 102.0%
pH(5% soln. @ 25°C).....5.0 - 8.2

Maximum limit of impurities(%)

Insol..... 0.005
Cl..... 0.001
PO₄..... 0.0005
SO₄..... 0.005
Ba..... 0.005
Ca..... 0.01
Fe..... 0.0005

H.M. (as Pb)..... 0.0005
K..... 0.005
Mn..... 0.0005
Na..... 0.005
NH₄..... 0.003
Sr..... 0.005

Conforms to ACS

Pack Size: 500g

300 Magnesium Nitrate

UNILAB

Assay.....98-102%
pH(5% soln. @ 25°C).....5.0-8.2

Maximum limit of impurities(%)

Cl..... 0.005
SO₄..... 0.01
Ca..... 0.1

Fe..... 0.002
H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg

Magnesium Oxide

CAS 1309-48-4
MgO = 40.30

828 Magnesium Oxide, Light UNIVAR

Assay.....	98.0 – 100.5%		
Maximum limit of impurities(%)			
L.O.I.	5.0	Pb.	0.0005
Soluble matter in water.	1.0	Zn.	0.001
Insolubles in Acetic Acid.	0.1	H.M. (as Pb).	0.002
Insolubles in HCl.	0.1	Cl.	0.05
As.	0.0002	SO ₄	0.5
Ca.	1.0	Free alkali + soluble salts.	to comply
Cu.	0.001	Appearance of the solution.	to comply
Fe.	0.02	Residual solvents.	to comply

Pack Size: 100g, 500g

1124 Magnesium Oxide, Light UNILAB

Description: white, fine, amorphous powder; odourless.

Assay(after ign.).....	96.0 - 100.5%
Bulk density.....	130g/L min.

Maximum limit of impurities(%)

Insol. (in CH ₃ COOH).	0.1	Ca.	1.1
L.O.I. (@800 Deg.C).	10.0	Fe.	0.05
Free alkali & soluble salts.	2.0	H.M.(as Pb).	0.004
As.	0.0003		

Coforms to USP

Pack Size: 500g, 5kg

835 Magnesium Oxide, Heavy UNILAB

Description: white to off-white granules.

Bulk density.....	about 350g/L
Assay(after ign.).....	96%

Maximum limit of impurities(%)

Insol. (in HCl).	0.1	Ca.	1.5
L.O.I.	10.0	Fe.	0.05
Sol. (in H ₂ O).	2.0	H.M. (as Pb).	0.004

Pack Size: 500g, 5kg

HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at www.ajaxfinechem.com/Unichrom

Magnesium Perchlorate

CAS 10034-81-8
 $Mg(ClO_4)_2 = 223.22$

U.N Number.....1475
 ADG Class.....5.1
 Packing Group.....II



1679 Magnesium Perchlorate

UNIVAR

Description: white, porous granules.

Maximum limit of impurities(%)

Titrateable free acid.....0.005 meq/g
 Titrateable base.....0.025 meq/g

H₂O..... 8.0
 Suitability for moisture absorption.....To pass test

Conforms to ACS

Pack Size: 500g

Magnesium sulphate

CAS 10034-99-8
 Approx $MgSO_4 \cdot 3H_2O$

1548 Magnesium sulphate, dried

UNILAB

Description: white solid ; odourless or almost odourless.
 Assay(as $MgSO_4$).....62.0 - 70.0%

Maximum limit of impurities(%)

Insol..... To pass test
 Acidity or alkalinity..... To pass test
 Cl..... 0.04

As..... 0.0003
 Fe..... 0.003
 H.M. (as Pb)..... 0.0015

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Magnesium Sulphate,Hydrated

CAS 10034-99-8
 $MgSO_4 \cdot 7H_2O = 246.47$

302 Magnesium Sulphate,Hydrated

UNIVAR

Description: colourless, efflorescent crystals.

Assay.....98.0 - 102.0%
 pH(5% soln. @ 25°C).....5.0-8.2

Maximum limit of impurities(%)

Insol..... 0.005
 Cl..... 0.0005
 Mn..... 0.0005
 Zn..... 0.0005
 H.M.(as Pb)..... 0.0005
 NO₃..... 0.002
 NH₄..... 0.002
 As..... 0.0002

Ca..... 0.002
 Sr..... 0.002
 Fe..... 0.0001
 Cu..... 0.0001
 Pb..... 0.0001
 K..... 0.001
 Na..... 0.001

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

303 Magnesium Sulphate, Hydrated UNILAB

Description: brilliant, colourless crystals or a white, crystalline powder; odourless.

Assay.....99.0 - 100.5% min.
L.O.D.....48.0 - 52.0%

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test
Acidity or alkalinity..... 0.2 mmol H or OH
Cl..... 0.03
As..... 0.0002

Fe..... 0.002
H.M. (as Pb)..... 0.001
Se..... 0.003

Chemical and physical parameters conform to BP & FCC

Pack Size: 500g, 5kg, 25kg

Malachite Green (C.I.42000)

CAS 569-64-2

3233 Malachite Green (C.I.42000) OP

Stain for microscopy. pH indicator.

Assay.....90% min.

Maximum limit of impurities(%)

Zn..... 0.0025

Pb..... 0.005

Pack Size: 25g, 50g

Maleic Acid

CAS 110-16-7

HOOCCH:CHCOOH = 116.07

1125 Maleic Acid UNILAB

Description: white, crystalline powder; odourless.

Assay(after drying).....99.0-101.0%

Maximum limit of impurities(%)

Sulph. ash..... 0.1
L.O.D..... 2.0
Fumaric acid..... to pass test

Clarity & colour of solution..... to pass test
H.M. (as Pb)..... 0.0010
Iron..... 0.0005

Chemical and physical parameters conform to BP

Pack Size: 100g, 5kg

DL-Malic Acid

CAS 617-48-1

HOCOCH₂CHOHCOOH = 134.09

2361 DL-Malic Acid UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Residue on ignition..... 0.25
Fe..... 0.005

H.M. (as Pb)..... 0.005

Pack Size: 500g

Malonic Acid

CAS 141-82-2
 $\text{CH}_2(\text{COOH})_2 = 104.06$

305 Malonic Acid UNILAB

Assay.....98.5% min.
 MR.....130 – 135°C

Maximum limit of impurities(%)

Sulph. ash.....	0.5	
Cl.....	0.01	SO ₄ 0.1

Pack Size: 100g

Maltose

CAS 69-79-4
 $\text{C}_{12}\text{H}_{22}\text{O}_{11} \cdot \text{H}_2\text{O} = 360.32$

1126 Maltose Bacteriological LABCHEM

Spec. rotn.+135 to +139°.

Pack Size: 100g, 1kg

Manganese 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2641 Manganese 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Manganese standard, ready for use.
 Mn in 0.5% Nitric acid.

Pack Size: 100mL

Manganese AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2617 Manganese AAS Standard SPECTROSOL

A 1000 ppm Manganese standard, ready for use.
 Each mL contains 1.00+/-0.005mg of Mn in 0.5% Nitric acid.

Traceable to NIST

Pack Size: 500mL

Manganese Powder

CAS 7439-96-5
Mn = 54.93

U.N Number.....3089
ADG Class.....4.1
Packing Group.....III



2345 Manganese Powder

LABCHEM

Description: Grey-brown-black powder
Assay.....99.0%

Pack size: 100g

Manganese(II) Acetate

CAS 638-38-0
(CH₃COO)₂Mn.4H₂O = 245.09

1533 Manganese(II) Acetate

UNILAB

Assay.....99.5% min.

Maximum limit of impurities(%)

Fe.....0.0005
Cu.....0.0005
Ni.....0.002

Cl.....0.001
SO₄.....0.005
Insol.....0.01

Pack Size: 500g

Manganese(II) Carbonate

CAS 598-62-9
MnCO₃.xH₂O

306 Manganese(II) Carbonate

UNILAB

Assay(as Mn).....43% min.

Maximum limit of impurities(%)

Cl.....0.02
SO₄.....0.02
Fe.....0.005

Na.....0.2
H.M.(as Pb).....0.005

Pack Size: 500g

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Manganese(II) Chloride

CAS 7773-01-5
 $\text{MnCl}_2 \cdot 4\text{H}_2\text{O} = 197.90$

307 Manganese(II) Chloride UNIVAR

Description: pink deliquescent crystals.

Assay.....98.0-101.0%
 pH(5% soln. @ 25°C).....3.5 – 6.0

Maximum limit of impurities(%)

Insol.....	0.005		
SO_4	0.005	Ca.....	0.005
Fe.....	0.0005	Mg.....	0.005
H.M. (as Pb).....	0.0005	K.....	0.01
Zn.....	0.005	Na.....	0.05

Conforms to ACS

Pack Size: 500g

1127 Manganese(II) Chloride UNILAB

Assay.....96% min.

Maximum limit of impurities(%)

SO_4	0.06		
Fe.....	0.01	H.M. (as Pb).....	0.001

Pack Size: 500g

Manganese Dioxide

CAS 1313-13-9
 $\text{MnO}_2 = 86.94$

793 Manganese Dioxide, Precipitated UNILAB

Assay.....90% min.
 Typical Mesh Size.....200

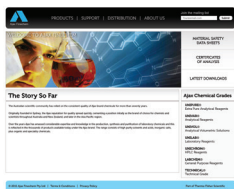
Maximum limit of impurities(%)

Insol. (in acid).....	3.5	Fe.....	0.5
L.O.D (@105DegC).....	0.3	SiO_2	3

Pack Size: 500g

598 Manganese Dioxide TECHNICAL

Pack Size: 500g



Your Window to Ajax Finechem

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Manganese(II) Sulphate, Monohydrate

CAS 7785-87-7
 $MnSO_4 \cdot H_2O = 169.01$

309 Manganese(II) Sulphate, Monohydrate UNIVAR

Description: pale pink crystalline powder.

Assay.....98.0 - 101.0%
 L.O.I. (@ 400-500°C).....10.0 - 12.0%

Maximum limit of impurities(%)

Insoluble matter..... 0.01
 Cl..... 0.005
 Ca..... 0.005
 H.M. (as Pb)..... 0.002
 Ni..... 0.02
 Zn..... 0.005

Subs. reducing $KMnO_4$ To pass test
 Fe..... 0.002
 Mg..... 0.005
 K..... 0.01
 Na..... 0.05

Conforms to ACS

Pack Size: 500g, 5kg

298 Manganese(II) Sulphate, Monohydrate UNILAB

Assay (after ign. @ 450 - 500°C).....98% min.
 L.O.I. (@ 450-500°C)10.0 - 12.0%

Maximum limit of impurities(%)

Cl..... 0.035
 Ca..... 0.005
 Fe..... 0.004

H.M. (as Pb)..... 0.004
 Zn..... 0.05

Pack Size: 500g, 5kg, 25kg

Manganous Acetate (See Manganese (II) Acetate Page 270)

Manganous Carbonate (See Manganese (II) Carbonate Page 270)

Manganous Chloride (See Manganese (II) Chloride Page 271)

Manganous Sulphate (See Manganese (II) Sulphate Monohydrate Page 272)

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

Mannitol

CAS 69-65-8
 $\text{CH}_2\text{OH}(\text{CHOH})_4\text{CH}_2\text{OH} = 182.17$

310

Mannitol

UNIVAR

Description: white, crystalline powder.

Assay.....99.0 - 101.5% min.

M.P.164 – 168°C

Spec. rotn. (@ 25°C)..... + 23.3 to +24.3°

Maximum limit of impurities(%)

Insol. 0.01

R.A.I. 0.01

L.O.D. 0.05

Titratable acid. 0.0008 meq/g

H.M. (as Pb)..... 0.0005

Red. Sugars. passes test

As. passes test

Cl. 0.007

SO₄..... 0.01

Conforms to ACS & FCC

Pack Size: 500g, 5kg

1101

Mannitol

UNILAB

Assay (W.R.T.D.S.).....98.0 - 101.5%

M.P.165-170°C

Spec rotn.+23 to +25°C

Conductivity.....(20mS-cm max)

Maximum limit of impurities(%)

Sulph. ash. 0.1

L.O.D. 0.5

Acidity..... 0.12

Cl. 0.005

SO₄..... 0.01

Pb..... 0.00005

Absence of reducing sugars. . . . 0.2 cal as glucose equ

Clarity & colour of soln.....To pass test

Ni. 0.0001

Sorbitol.To pass test

Related substances. To pass test

Identity..... pass BP

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

D(+)-Mannose

CAS 3458-28-4
 $\text{C}_6\text{H}_{12}\text{O}_6 = 180.2$

3073

D(+)-Mannose

UNILAB

Description: White crystalline hygroscopic powder

Assay.....98.0% min.

Maximum limit of impurities(%)

Mg. 0.0005

Ca. 0.001

Fe..... 0.0005

H.M. (as Pb)..... 0.005

Insoluble matter. 0.1

Cl. 0.005

SO₄..... 0.005

Pack size: 100g

Marble Chips

1515 Marble Chips

TECHNICAL

About.....3-5mm

Pack Size: 1kg, 3kg, 25Kg

Mayer'S Haematoxylin

1831 Mayer'S Haematoxylin Solution

LABCHEM

Haematoxylin.....1g/L

Pack Size: 1L, 5L

May-Grunwald's Stain

3234 May-Grunwald's Stain

OP

Stain for microscopy.

Pack Size: 25g

May-Grunwald Stain Solution

U.N Number.....1992

ADG Class.....3

SUB.....6.1

Packing Group.....II



3235 May-Grunwald Stain Solution

LABCHEM

0.25% w/v in Methanol

Pack Size: 500mL

MEK (See Ethyl Methyl Ketone Page 202)

Mek/Cyclohexanone 40/60

CAS 108-94-1

U.N Number.....1224

ADG Class.....3

Packing Group.....II



4578 Mek/Cyclohexanone 40/60

LABCHEM

M.E.K.....39 - 41% v/v

Density (@ 20°C).....0.885 - 0.895

Cyclohexanone.....59 - 61% v/v

Pack Size: 20L

Menthol

CAS 89-78-1
 $C_{10}H_{20}O = 156.26$

1283 Menthol

UNILAB

Description: Colourless to white crystals or granules
 Assay.....99.0%
 Melting point.....41 - 44°C

Pack size: 100g

Mercaptoacetic Acid (See Thioglycolic Acid Page 448)

2-Mercaptobenzothiazole

CAS 149-30-4
 $C_7H_5NS_2 = 167.25$

U.N Number.....3077
 ADG Class.....9
 Packing Group.....III



3164 2-Mercaptobenzothiazole

LABCHEM

Assay.....99% Min.
 M.P.176 – 179°C

Pack Size: 25g

2-Mercaptoethanol

CAS 60-24-2
 $HS.CH_2CH_2OH = 78.13$

U.N Number.....2966
 ADG Class.....6.1
 Packing Group.....II



3170 2-Mercaptoethanol For Synthesis

LABCHEM

Assay.....98% Min.
 Wt per ml @ 20°C.....About 1.12g
 R.I.1.499 – 1.502

Pack Size: 100 mL

Mercurisorb Mercury Clean Up Kit

U.N Number.....1493
 ADG Class.....5.1
 Packing Group.....II



3283 Mercurisorb Mercury Clean Up Kit

AJAX

The kit comprises of all the necessary equipment to clean up a spill of up to 100 grams of mercury, i.e. disposable pipettes for collection of globules before clean up using brush, scoop, disposable gloves and Mercurisorb absorbent.

Pack Size: EACH

Mercurisorb Refill

U.N Number.....1493
ADG Class.....5.1
Packing Group.....II



3284 Mercurisorb Refill

AJAX

Refill for Mercurisorb kit. Absorbent capacity for treatment of mercury spills is approx. 250g mercury per 250g Mercurisorb.

Pack Size: 250g

3285 Mercurisorb Refill

AJAX

Refill for Mercurisorb kit. Absorbent capacity for treatment of mercury spills is approx. 1kg mercury per 1kg Mercurisorb.

Pack Size: 1kg

Mercuric Nitrate (See Mercury (II) Nitrate Page 281)

Mercury

CAS 7439-97-6
Hg = 200.59

U.N Number.....2809
ADG Class.....8
Packing Group.....III



317 Mercury

UNIVAR

Description: Silvery liquid metal with a bright surface. Triple distilled fine virgin mercury.

Density.....about 13.5g/mL
Assay.....99.99%

Maximum limit of impurities(%)

Appearance......To pass test

Cd.....	0.0001
Ca.....	0.002
Cu.....	0.0002
Fe.....	0.0003
Pb.....	0.0002

Mg.....	0.0005
K.....	0.005
Zn.....	0.003
Ni.....	0.0001
Ag.....	0.002

Pack Size: 500g

Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Safe for the environment

- <> Non-Hazardous
- <> Harmless

Cat-No **Pack Size**
8745 500g, 1kg, 3kg, 5kg, 25kg

1761 **Mercury** LABCHEM

Density.....about 13.5 g/mL
 Assay.....99.9% min.
 Appearance – To pass Test

Maximum limit of impurities(%)
 Cd..... 0.001
 Pb..... 0.001
 Fe..... 0.001

Pack Size: 500g

5583 **Mercury** TECHNICAL

May contain rust & dust impurities.
 Density.....about 13.5 g/mL
 Assay.....99% min.

Pack Size: 500g

Mercury 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....II



2642 **Mercury 1000ppm Single Element ICP Standard** UNIPURE

A 1000 ppm Mercury standard, ready for use.
 Hg in 6.5% Nitric acid.

Pack Size: 100mL

Mercury AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....II



2618 **Mercury AAS Standard** SPECTROSOL

A 1000 ppm Mercury standard, ready for use.
 Each ml contains 1.00mg+/-0.005mg of Hg in 6.5% Nitric acid.

Pack Size: 500mL

Mercury(II) Acetate

CAS 1600-27-7
 (CH₃COO)₂Hg = 318.68

U.N Number.....1629
 ADG Class.....6.1
 Packing Group.....II



1129 **Mercury(II) Acetate** UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)
 Fe..... 0.001
 Cl..... 0.005

Pack Size: 100g

Mercuric Acetate (See Mercury (II) Acetate Page 277)

Mercuric Chloride (See Mercury (II) Chloride Powder Page 279)

Mercuric Iodide (See Mercury (II) Iodide Red Page 280)

Mercuric Oxide (See Mercury (II) Oxide Red Page 281)

Mercuric Sulphate (See Mercury (II) Sulphate Page 282)

Mercuric Thiocyanate (See Mercury (II) Thiocyanate Page 282)

Mercury (II) Bromide

CAS 7789-47-1
HgBr₂ = 360.4

U.N Number.....1634
ADG Class.....6.1
Packing Group.....II



3052 Mercury (II) Bromide

UNILAB

Description: white crystalline powder
Assay.....99.0%
Melting point.....236 - 238°C

Maximum limit of impurities(%)
Cl.....0.2

Pack size: 100g

Mercurous Chloride

CAS 10112-91-1
Synonyms: Calomel, Mercury (I) Chloride
Hg₂Cl₂ = 472.09

U.N Number.....2025
ADG Class.....6.1
Packing Group.....III



316 Mercurous Chloride

UNILAB

Assay(by iodometry).....99% min.

Maximum limit of impurities(%)
Foreign heavy metals soluble.....0.002
Mercury salts (as Pb)
NH₄.....0.01
Substances not reducible with
formic acid (R.O.I.).....0.1

L.O.D.....0.5
Impurities with an..... To pass test
acidic or alkaline reaction

Pack Size: 100g

Mercury (I) Chloride

CAS 10112-91-1
 $Hg_2Cl_2 = 471.1$

U.N Number.....2025
 ADG Class.....6.1
 Packing Group.....III



3160 Mercury (I) Chloride

UNILAB

Description: white to colourless fine powder

Assay.....98.0%

Maximum limit of impurities(%)

Ca. 0.005

Cd. 0.005

Fe. 0.005

Cu. 0.005

Pack size: 100g

Mercury(II) Chloride

CAS 7487-94-7
 $HgCl_2 = 271.50$

U.N Number.....1624
 ADG Class.....6.1
 Packing Group.....II



311 Mercury(II) Chloride, Powder

UNIVAR

Description: heavy, white crystalline powder.

Assay.....99.5% min.

Maximum limit of impurities(%)

Sol. (in ether). To pass test

Res. after reduction. 0.02

Fe. 0.002

Conforms to ACS

Pack Size: 100g, 500g

312 Mercury(II) Chloride, Powder

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Sol. (in ether). To pass test

Sulph. ash. 0.05

Fe. 0.005

Pack Size: 100g, 500g

Mercury (I) Chloride (See Mercurous Chloride Page 278)

Mercury(II) Iodide, Red

CAS 7774-29-0
HgI₂ = 454.40

U.N Number.....1638
ADG Class.....6.1
Packing Group.....II



313 Mercury(II) Iodide, Red

UNIVAR

Description: heavy, red powder.

Assay.....99.0% min.

Maximum limit of impurities(%)

Sol. (in KI soln.)..... To pass test

Hg(I) (as Hg)..... 0.1

Sol. Hg salts (as Hg)..... 0.05

Conforms to ACS

Pack Size: 100g, 500g

314 Mercury(II) Iodide, Red

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Sol. Hg salts (as Hg)..... 0.1

Pack Size: 100g, 500g

Mercury(I) Nitrate

CAS 14836-60-3
Hg₂(NO₃)₂·2H₂O = 561.22

U.N Number.....1627
ADG Class.....6.1
Packing Group.....II



1133 Mercury(I) Nitrate

UNIVAR

Description: colourless or white crystals becoming yellow during storage.

Assay.....97.0% min.

Maximum limit of impurities(%)

Insol..... 0.01

Fe..... 0.005

Non-vol..... 0.05

Hg²⁺..... 2.00

SO₄..... 0.01

Chlorides (Cl)..... 0.02

Pack Size: 100g

1134 Mercury(I) Nitrate

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Non-vol..... 0.1

SO₄..... 0.05

Pack Size: 100g

Mercury(II) Nitrate

CAS 10045-94-0
 $\text{Hg}(\text{NO}_3)_2 \cdot \text{H}_2\text{O} = 342.62$

U.N Number.....1625
 ADG Class.....6.1
 Packing Group.....II



836

Mercury(II) Nitrate

UNIVAR

Description: colourless or white, moist crystals, turning yellow during storage.

Assay.....98.0% min.

Maximum limit of impurities(%)

Res. after reduction..... 0.01

Cl..... 0.002

SO₄..... 0.002

Fe..... 0.001

Hg(I) (as Hg)..... 0.2

Conforms to ACS

Pack Size: 100g, 500g

1130

Mercury(II) Nitrate

UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Cl..... 0.05

SO₄..... 0.04

Pack Size: 500g

Mercury(II) Oxide, Red

CAS 21908-53-2
 $\text{HgO} = 216.59$

U.N Number.....1641
 ADG Class.....6.1
 Packing Group.....II



1286

Mercury(II) Oxide, Red

UNILAB

Assay(after drying).....98.5% min.

Maximum limit of impurities(%)

Insoluble matter in HCl..... 0.3

Nitrogen Compounds (as N)..... 0.01

Chloride (Cl)..... 0.1

Sulphate (SO₄)..... 0.05

Cu..... 0.005

Fe..... 0.005

Ni..... 0.005

Pb..... 0.005

Pack Size: 100g, 500g

315

Mercury(II) Oxide, Yellow

UNILAB

Assay (after drying).....99.0 min.

Maximum limit of impurities(%)

Insoluble matter in HCl..... 0.05

R O I.(as SO₄)..... 0.05

Nitrogen compounds (as N)..... 0.005

Residue after reducti on..... 0.05

SO₄..... 0.01

Cl..... 0.03

Fe..... 0.003

Pb..... 0.001

Cu..... 0.001

Ni..... 0.001

Zn..... 0.001

Cd..... 0.001

Pack Size: 500g

Mercury(II) Sulphate

CAS 7783-35-9
HgSO₄ = 296.65

U.N Number.....1645
ADG Class.....6.1
Packing Group.....II



1131 Mercury(II) Sulphate

UNIVAR

Description: heavy, white powder.

Assay.....98.0% min.

Maximum limit of impurities(%)

Residue after reduction..... 0.02

Cl..... 0.003

NO₃..... To Pass Test

Mercurous mercury(as Hg)..... 0.15

Fe..... 0.003

Cd..... 0.001

Ni..... 0.001

Zn..... 0.001

Cu..... 0.001

Pb..... 0.001

Pack Size: 25g, 100g

1669 Mercury(II) Sulphate

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

NO₃..... 0.01

Pack Size: 100g

Mercury(II) Thiocyanate

CAS 592-85-8
Hg(SCN)₂ = 316.73

U.N Number.....1646
ADG Class.....6.1
Packing Group.....II



2458 Mercury(II) Thiocyanate

LABCHEM

Description: yellowish white powder.

Assay.....99% min.

Pack Size: 100g

Mercurous Nitrate (See Mercury (I) Nitrate Page 280)

Mes Biological Buffer

CAS 4432-31-9
C₆H₁₃NO₄S= 195.20

3428 Mes Biological Buffer

UNIVAR

Description: White powder

Solubility (0.5M in H₂O): Clear and complete

Assay.....99.0% min.

pKa @ 20°C.....6.0 – 6.3

pH(0.5M in H₂O).....2.5 – 4.0

Maximum limit of impurities(%)

Moisture..... 1.0

Pack size: 100g, 1kg

Metanil Yellow (C.I. 13065)

CAS 587-98-4
 $C_{18}H_{14}N_3NaO_3S = 375.4$

2351 Metanil Yellow (C.I. 13065)

LABCHEM

Description: Orange-coloured fine crystalline powder
 Dye content.....70.0% min.
 Assay.....95.0%
 Indicator range pH.....1.2 – 2.8

Pack size: 100g, 500g

Methanal (See Formaldehyde Soln Page 207)

Methanethiomethane (See Dimethyl Sulphide Page 183)

Methanol

CAS 67-56-1
 $CH_3OH = 32.04$

U.N Number.....1230
 ADG Class.....3
 SUB.....6.1
 Packing Group.....II



2314 Methanol

UNICHROM

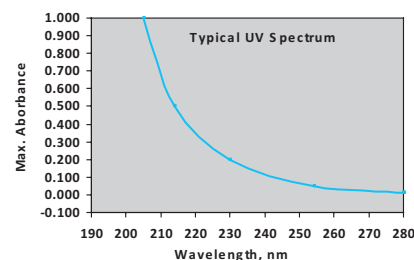
Assay.....98% min.
 pH (5% soln. @ 20°C).....4.5-5.5

Maximum limit of impurities(%)
 Cl.....0.005

Pack Size: 500g, 5kg

Description: clear liquid, characteristic odour.
 R.Iabout 1.329
 Viscosity @ 20°C.....about 0.59cP
 Assay (GLC).....>99.7%

Maximum limit of impurities(%)
 Non-vol.....0.001
 Acidity.....0.03 mmol H
 H_2O (by K.F.).....0.1



U.V. Absorbance:				
λ (nm)	205	214	254	280
Max. abs.	1.00	0.50	0.05	0.01

Suggested Applications:
 Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L, 4L

Spectroscopy Materials

SPECTROSOL

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: www.ajaxfinechem.com/Spectrosol

591

Methanol

SPECTROSOL

Description: clear liquid; characteristic odour.
 Colour (APHA).....10 max.
 Assay.....99.8% min.

Maximum limit of impurities(%)
 R.A.E..... 0.001
 Subs. darkened by H₂SO₄.....To pass test
 Subs. red. KMnO₄ (as O).....To pass test
 Water..... 0.1
 Acetone,aldehydes (as (CH₃)₂CO)..... 0.001

Sol.in water.....To pass test
 Titratable acid..... 0.03 mmol H
 Titratable base.....0.02 mmol OH

U.V. Absorbance:
 λ(nm) 205 210 220 230 240 260 280-400
 Max. abs. 1.00 0.80 0.40 0.20 0.10 0.04 0.01

Conforms to ACS

Pack Size: 500mL, 2.5L

318

Methanol

UNIVAR

Description: clear liquid with a characteristic odour.
 Assay.....99.8% min.
 R.I. @ 20°C.....1.3280 – 1.3300
 Colour (APHA).....10 max.

Maximum limit of impurities(%)
 R.A.E..... 0.001
 Sol. (in H₂O)..... To pass test
 Titratable acid..... 0.03 mmol H
 Titratable base..... 0.02 mmol OH
 Carbonyl compounds..... 0.003
 Na..... 0.0001
 Reaction to KMnO₄, H₂SO₄ (each).....To pass test
 Fe..... 0.00002
 K..... 0.00002
 Zn..... 0.00002
 H₂O..... 0.1
 Al..... 0.00001

Ba..... 0.000005
 Mg..... 0.000005
 Cd..... 0.000005
 Pb..... 0.000005
 Ca..... 0.00005
 Cr..... 0.000002
 Co..... 0.000002
 Cu..... 0.000002
 Mn..... 0.000002
 Ni..... 0.000002
 Sr..... 0.000002

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

723

Methanol Anhydrous

UNIVAR

Description: a clear, hygroscopic liquid with a characteristic odour.
 Assay.....99.8% min.
 Colour (APHA).....10 max.

Maximum limit of impurities(%)
 R.A.E..... 0.001
 Sol. (in H₂O)..... To pass test
 Titratable acid..... 0.03 mmol H
 Titratable base..... 0.02 mmol OH

Acetone,aldehydes (as (CH₃)₂CO)..... 0.005
 Subs. darkened by H₂SO₄.....To pass test
 Subs. red. KMnO₄ (as O).....To pass test
 H₂O..... 0.01

Pack Size: 500mL, 2.5L, 20L

319

Methanol

UNILAB

Density.....about 0.79g/mL
 B.R. (95% min.).....63 – 65°C
 R.I.1.328 – 1.329

Maximum limit of impurities(%)
 Non-vol..... 0.005
 Acidity..... 0.2 mmol H

Aldehydes & ketones (as (CH₃)₂CO)..... 0.02

Pack Size: 500mL, 2.5L, 20L, 200L

Methyl Acetate

CAS 79-20-9
CH₃COOCH₃ = 74.08

U.N Number.....1231
ADG Class.....3
Packing Group.....II



1136 Methyl Acetate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

R.A.E..... 0.003

Water..... 0.1

Pack Size: 500mL, 2.5L

Methyl Acetic Acid (See Propionic Acid Page 370)

Methyl Alcohol (See Methanol Page 283)

Methylamine

CAS 74-89-5
CH₃NH₂ = 31.06

U.N Number.....1235
ADG Class.....3
SUB.....8
Packing Group.....II



130 Methylamine

UNILAB

Density.....about 0.90g/mL

Assay.....39 - 42%w/v

Pack Size: 500mL

Methylamine Hydrochloride

CAS 593-51-1
CH₆ClN = 67.52

656 Methylamine Hydrochloride

LABCHEM

Assay (HClO₄ tit).....99% min.

M.P.228 - 231°C

Pack Size: 250g

4-Methylaminophenol Sulphate (See Metol Page 294)

4-Methylaniline (See P-Toluidine Page 456)

N-Methylaniline

CAS 100-61-8

Synonyms: Mono methylaniline

$C_7H_9N = 107.16$

U.N Number.....2294

ADG Class.....6.1

Packing Group.....III



3075 N-Methylaniline

LABCHEM

Assay.....>98%

Density @ 20°C.....0.982 – 0.987

R.I.1.5705 – 1.5715

Pack Size: 500 mL

Methyl Benzene (See Toluene Page 454)

Methyl Benzoate

CAS 93-58-3

$C_6H_5COOCH_3 = 136.15$

2305 Methyl Benzoate

UNILAB

Density.....about 1.08g/mL

R.I.....approx 1.517

Assay (GC).....99% min.

B.R.197 – 199°C

Maximum limit of impurities(%)

Water,(KF)..... 0.1

Sulphated ash. 0.05

Free acid (as C_6H_5COOH)..... 0.2

Pack Size: 500mL

Methyl Benzol (See Toluene Page 454)

Methyl Blue (CI 42780)

CAS 28983-56-4

3236 Methyl Blue (CI 42780)

OP

Stain for microscopy. Pack Size: 25g Stain for microscopy.

Pack Size: 25g

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

2-Methylbutan-2-ol

CAS 75-85-4
 $C_2H_5C(CH_3)_2OH = 88.15$

U.N Number.....1105
ADG Class.....3
Packing Group.....II



1306 2-Methylbutan-2-ol

UNILAB

Assay (GC).....99.0% min.

Maximum limit of impurities(%)

R.A.E.....0.004

Water (K.F.).....0.5

Pack Size: 500mL, 2.5L

3-Methyl-1-Butanol (See Iso-Amyl Alcohol Page 62)

3-Methyl-1-Butyl Acetate (See Iso-Amyl Acetate Page 62)

Methyl Green

CAS 7114-03-6
 $C_{27}H_{35}BrClN_3.ZnCl_2 = 653.24$

U.N Number.....3147
ADG Class.....8
Packing Group.....III



3351 Methyl Green For microscopical staining C.I. 42590

LABCHEM

Dye content85% min.

By titanometry.....630 – 635nm

Pack Size: 10g, 25g

5-Methyl-2-Hexanone (See Methyl Isoamyl Ketone Page 289)

Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



Summary of Ampoules available

Cat-No Description

1366 Hydrochloric Acid 0.1M
1395 Oxalic Acid 0.05M
1373 Sulphuric Acid 0.05M
1398 Ammonium Thiocyanate 0.1M

Cat-No Description

1376 Silver Nitrate 0.1M
1377 EDTA 0.1M
1396 Iodine 0.01M
1359 Potassium Dichromate 1/60M

Cat-No Description

1378 Potassium Hydroxide 0.1M
1361 Potassium Permanganate 0.02M
1386 Sodium Hydroxide 0.1M
1388 Sodium Thioulphate 0.1M

Methyl 4-Hydroxybenzoate

CAS 99-76-3
 $\text{HOC}_6\text{H}_4\text{COOCH}_3 = 152.15$

327 Methyl 4-Hydroxybenzoate

UNILAB

Colourless crystals or a white, crystalline powder.

Assay.....98.0 – 102.0%
 M.P.125 – 128°C
 L.O.D.0.5% max

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test
 Sulph. ash..... 0.1

Acidity......5 mmol H
 Related substances..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Methyl Icinol (See 2-Methoxyethanol Page 285)

Methyl Iodide (See Iodomethane Page 240)

Methyl Isobutyl Ketone (See 4- Methylpentan-2-One Page 293)

Methyl Isoamyl Ketone

CAS 110-12-3
 $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{COCH}_3 = 114.19$

U.N Number.....2302
 ADG Class.....3
 Packing Group.....III



1337 Methyl Isoamyl Ketone

UNILAB

Assay.....99.0% min.
 Colour (APHA).....10

Maximum limit of impurities(%)

Water..... 0.05

Pack size: 500mL

Methyl Methacrylate

CAS 80-62-6
 $\text{C}_5\text{H}_8\text{O}_2 = 100.12$

U.N Number.....1247
 ADG Class.....3
 Packing Group.....II



3240 Methyl Methacrylate

OP

Density.....about 0.94 g/mL
 Assay(GLC).....99% min.
 Boiling point.....99-102°C

Pack Size: 1L

1-Methyl-4Nitrobenzene (See 4-Nitrotoluene Page 313)

Methyl Orange Screened

CAS 547-58-0

U.N Number.....3143

ADG Class.....6.1

Packing Group.....III



470 Methyl Orange Screened

LABCHEM

Mixed pH indicator

Pack Size: 25g

Methyl Orange Sodium Salt (CI 13025)

CAS 547-58-0

$C_{14}H_{14}N_3SO_3Na = 327.34$

U.N Number.....3143

ADG Class.....6.1

Packing Group.....III



725 Methyl Orange Sodium Salt (CI 13025)

LABCHEM

pH indicator

Clarity of solution.....To pass test

Visual Transition Interval.....pH 3.2 (red) to pH 4.4 (yellow)

Maximum limit of impurities(%)

Insol. (in H_2O)..... To pass test

Conforms to ACS

Pack Size: 25g, 100g, 1kg

Methyl Orange Solution

CAS 547-58-0

$C_{14}H_{14}N_3SO_3Na = 327.34$

U.N Number.....1602

ADG Class.....6.1

Packing Group.....II



753 Methyl Orange Solution

LABCHEM

pH indicator: 0.05% aqueous solution.

pH 3.0 : Red

pH 3.2: Reddish – orange

pH 4.4: Yellow

Pack Size: 100mL

Methyl Oxitol (See 2-Methoxyethanol Page 285)

Methyl Phenyl Ketone (See Acetophenone Page 26)

Methyl P-Hydroxybenzoate (See Methyl 4-Hydroxybenzoate Page 289)

Methyl Red Sodium Salt (CI 13020)

CAS 845-10-3
 $C_{15}H_{14}N_3NaO_2 = 291.29$

609 Methyl Red Sodium Salt (CI 13020)

LABCHEM

pH and redox indicator.

Maximum limit of impurities(%)

Insol. (in alc.) To pass test

Insol. (in H₂O).....To pass test

Pack Size: 10g, 100g

Methyl Red Solution

U.N Number.....1993

ADG Class.....3

Packing Group.....III



610 Methyl Red Solution

LABCHEM

pH indicator.

0.1% aqueous solution.

Pack Size: 100mL

Methyl Salicylate

CAS 119-36-8
 $HOC_6H_4COOCH_3 = 152.15$

1138 Methyl Salicylate

UNILAB

Colourless or pale yellow liquid; odour strong, persistent, characteristic and aromatic.

Assay.....99.0 - 100.5%

Relative density.....1.180 – 1.186 g/mL

R.I1.535 – 1.538

Maximum limit of impurities(%)

AcidityTo pass test

Clarity and colour of soln..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L

Methyl Sulphide (See Dimethyl Sulphide Page 183)

Methyl Sulphoxide (See Dimethyl Sulphoxide Page 183)

Methylthymol Blue

CAS 1945-77-3
 $C_{37}H_{41}N_2O_{13}SNa_3 = 822.78$

2474 Methylthymol Blue

LABCHEM

Metal indicator.

Pack Size: 1g

Methyl Violet 6B (CI 42535)

CAS 8004-87-3

3241 Methyl Violet 6B (CI 42535)

OP

Stain for microscopy.

Pack Size: 25g

Methylated Spirits

CAS 64-17-5

U.N Number.....1170

ADG Class.....3

Packing Group.....II



4546 Denatured Absolute Alcohol F3

LABCHEM

Pack Size: 2.5L, 20L, 200L

2512 Methylated Spirit 95%

LABCHEM

Ethanol approx.95%

Density.....about 0.806g/mL

Pack Size: 12x500mL, 2.5L, 20L

5591 Methylated Spirit 95SGF3 (SMS)

LABCHEM

Weight per ml: Maximum:.....0.810g

This material is denatured with meth:.....2.0+-0.2%

Acidity:.....0.05ml N%

Non-volatile matter:.....0.005%

Pack Size: 2.5L, 20L, 200L

5111 Methylated Spirits 95% IMS, HP

LABCHEM

Pack Size: 10L, 20L

2514 Methylated Spirit 70% v/v Special, Green

LABCHEM

Pack Size: 12x500mL

Methylene Blue

CAS 61-73-4

$C_{16}H_{18}N_3ClS \cdot 2H_2O = 355.89$

1137 Methylene Blue (C.I.52015)

UNILAB

Reagent for Mo. Redox indicator.

Pure dye content 82% min. Transition EMF (@ pH=0) +0.53V

Transition EMF (@ pH=7) +0.01V

Colour change: Oxidized (blue) to reduced (colourless)

Pack Size: 25g, 100g, 500g

1838 **Methylene blue solution** LABCHEM

1% Aqueous stain solution

Pack Size: 1L, 5L

Methylene Chloride (See Dichloromethane Page 171)

4-Methylpentan-2-One

CAS 108-10-1
(CH₃)₂CHCH₂COCH₃ = 100.16

U.N Number.....1245
ADG Class.....3
Packing Group.....II



2219 **4-Methylpentan-2-One** UNIVAR

Description: clear liquid with a characteristic odour.
Assay (by GLC).....99.0% min.
Colour (APHA).....15 max.

Maximum limit of impurities(%)
R.A.E..... 0.001
Titratable acid..... 0.2 mmol H
H₂O..... 0.1

Pack Size: 500mL, 2.5L, 20L

120 **4-Methylpentan-2-One** UNILAB

Density.....about 0.80g/mL
Assay.....99% min.
B.R. (95% min.).....114 – 117°C

Maximum limit of impurities(%)
Non-vol..... 0.005
Acidity..... 2 mmol H

Pack Size: 2.5L, 20L

3-Methylphenol (See m-Cresol Page 159)

4-Methylphenol (See p-Cresol Page 159)

2-Methylpropan-1-ol

CAS 78-83-1
(CH₃)₂CHCH₂OH = 74.12

U.N Number.....1212
ADG Class.....3
Packing Group.....III



110 **2-Methylpropan-1-ol** UNIVAR

Description: clear liquid with a characteristic odour.
Assay (GLC).....99.0% min.
B.R.....(100%) 15°C
Incl.....107.9 +/- 0.1°C
Colour (APHA).....10 max.
R.I.....1.395 – 1.396

Maximum limit of impurities(%)
R.A.E..... 0.001
Sol. (in H₂O).....To pass test
Titratable acid.....0.0005 meq/g
H₂O..... 0.1

Pack Size: 2.5L

111 2-Methylpropan-1-ol UNILAB

Density.....about 0.80g/mL
B.R. (95% min.).....106 - 108°C

Maximum limit of impurities(%)

Non-vol..... 0.005 H₂O..... 0.25

Pack Size: 500mL

2-Methylpropan-2-ol

CAS 75-65-0
(CH₃)₃COH = 74.12

U.N Number.....1120
ADG Class.....3
Packing Group.....II



16 2-Methylpropan-2-ol UNIVAR

Description: clear liquid. Solid or semi-solid at room temperature

M.P.25.0 – 25.5°C
Assay (GC).....99.5%min

Maximum limit of impurities(%)

Non-vol..... 0.001 H₂O..... 0.05

Pack Size: 500mL, 2.5L

113 2-Methylpropan-2-ol UNILAB

B.R. (95% min.).....81-83 °C
M.P.24.0 – 26.0 °C

Maximum limit of impurities(%)

Non-vol..... 0.01 H₂O..... 0.2

Pack Size: 500mL, 2.5L, 20L, 200L

Metol

CAS 55-55-0
C₁₄H₂₀N₂O₆S = 344.39

U.N Number.....3077
ADG Class.....9
Packing Group.....III



1139 Metol LABCHEM

Assay.....99% min.

Pack Size: 100g, 500g

Milk Sugar (See Lactose Page 248)

Mirbane Oil (See Nitrobenzene Page 311)

Molecular Sieve

1467 Molecular Sieve, Type 3A, 1.5 – 2.5mm LABCHEM

Absorbent, for moisture removal.

Pack Size: 500g, 25Kg

1461 Molecular Sieve Type 4A, 2.5-5.0mm LABCHEM

Absorbent for moisture, ethanol, ammonia etc. removal.

Pack Size: 500g

1462 Molecular Sieve Type 5A, 1.6-2.5mm LABCHEM

Absorbent, for removal of moisture, R12; larger molecules.

Pack Size: 500g

Molybdenum 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



2643 Molybdenum 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Molybdenum standard, ready for use.
Mo in 8% Hydrochloric acid.

Pack Size: 100mL

Molybdenum AAS Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



2619 Molybdenum AAS Standard SPECTROSOL

A 1000 ppm Molybdenum standard, ready for use.
Mo in 8% Hydrochloric acid.

Traceable to NIST

Pack Size: 500mL

Spectroscopy Materials

SPECTROSOL

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: www.ajaxfinechem.com/Spectrosol

Molybdenum Trioxide

CAS 1313-27-5
MoO₃ = 143.94

332 Molybdenum Trioxide UNIVAR

Description: pale yellow-green or grey crystalline powder.
Assay.....99.5% min.

Maximum limit of impurities(%)

Insol. (in NH ₄ OH).....	0.01	AsO ₄ , PO ₄ , SiO ₃ (as SiO ₂).....	0.002
Cl.....	0.002	SO ₄	0.02
NO ₃	0.003	H.M. (as Pb).....	0.005
PO ₄	0.0005	NH ₄	0.002

Pack Size: 100g, 500g

1379 Molybdenum Trioxide UNILAB

Description: pale yellow-green or grey crystalline powder.
Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	H.M. (as Pb).....	0.005
PO ₄	0.005		

Pack Size: 500g

Molybdic Acid

CAS 11099-00-6

330 Molybdic Acid UNIVAR

Description: white to off-white crystalline powder,
containing ammonium molybdate.
Assay(as MoO₃).....85.0% min.

Maximum limit of impurities(%)

Insol. (in NH ₄ OH).....	0.01	PO ₄	0.001
Cl.....	0.002	SiO ₃ (as SiO ₂).....	0.001
PO ₄	0.0005	SO ₄	0.2
AsO ₄	0.001	H.M. (as Pb).....	0.003

Conforms to ACS

Pack Size: 500g

331 Molybdic Acid UNILAB

Contains ammonium molybdate.
Assay(as MoO₃).....85% min.

Maximum limit of impurities(%)

PO ₄	0.005
-----------------------	-------

Pack Size: 500g

Molybdic Acid Anhydride (See Molybdenum Trioxide Page 296)

Dodeca-Molybdophosphoric Acid

CAS 12026-57-2
Approx. $12\text{MoO}_3 \cdot \text{H}_3\text{PO}_4 \cdot 24\text{H}_2\text{O} = 22576$

U.N Number.....1759
ADG Class.....8
Packing Group.....III



333 Dodeca-Molybdophosphoric Acid

UNIVAR

Description: yellow crystals or crystalline powder.

Maximum limit of impurities(%)

Insol.....	0.01	Fe.....	0.002
Cl.....	0.02	NH ₄	0.01
SO ₄	0.025	HM (as Pb).....	0.005
Ca.....	0.02		

Conforms to ACS

Pack Size: 100g

1140 Dodeca-Molybdophosphoric Acid

UNILAB

Maximum limit of impurities(%)

SO ₄	0.04	Ca.....	0.04
NH ₄	0.02		

Pack Size: 100g

Monobromobenzene (See Bromobenzene Page 98)

Monochlorobenzene (See Chlorobenzene Page 136)

Monochlorobenzol (See Chlorobenzene Page 136)

Monoethanolamine (See Ethanolamine Page 195)

Monomethylamine (See Methylamine Aqueous Soln Page 286)

Mono Methylaniline (See N-Methylaniline Page 287)

Mordant Black 11 (See Eriochrome Black T Page 191)

Mordant Black 17, Calcon (See Eriochrome Blue Black R Page 191)

Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

Morpholine

CAS 110-91-8
 $C_4H_{10}ON = 87.12$

U.N Number.....2054
ADG Class.....8
SUB.....3
Packing Group.....I



1141 Morpholine

UNILAB

Density.....about 1.0g/mL
Assay.....99% min.
B.R. (95% min.).....125 - 130°C

Maximum limit of impurities(%)
Non-vol..... 0.005

Pack Size: 500ML

Mountant, Fast Drying

U.N Number.....1866
ADG Class.....3
Packing Group.....III



1840 Mountant, Fast Drying

LABCHEM

Pack Size: 100mL, 500mL

Murexide (CI 56085)

CAS 3051-09-0
 $C_8H_8N_6O_6 = 284.19$

55 Murexide (CI 56085)

LABCHEM

Metal indicator.

Pack Size: 10g

Muriatic Acid (See Hydrochloric Acid Page 229)

Naphthalene, Pure Chip

CAS 91-20-3
 $C_{10}H_8 = 128.17$

U.N Number.....1334
ADG Class.....4.1
Packing Group.....III



334 Naphthalene, Pure Chip

Technical

Pack Size: 500g

1-Naphthalenol (See 1-Naphthol Page 299)

2-Naphthalenol (See 2-Naphthol Page 299)

1-Naphthol

CAS 90-15-3
 $C_{10}H_7OH = 144.17$

U.N Number.....2811
 ADG Class.....6.1
 Packing Group.....III

**1142 1-Naphthol**

UNIVAR

Description: white to light pink crystals or crystalline powder.

Assay.....99% min.
 M.P.94-97°C

Maximum limit of impurities(%)

Water (Karl Fischer)..... 0.2
 Sulph. ash..... 0.05
 Fe..... 0.001
 Cl..... 0.005

H.M. (as Pb)..... 0.001
 Naphthalene(GC)..... 0.2
 2-Naphthol (GC)..... 0.5

Pack Size: 100g

2-Naphthol

CAS 135-19-3
 $C_{10}H_7OH = 144.17$

1143 2-Naphthol

UNIVAR

Description: white to light pink crystals or crystalline powder.

Assay.....99.0% min.
 MP.....120 - 124°C

Pack Size: 100g

Naphthol Green B (C.I. 10020)

CAS 19381-50-1
 $C_{30}H_{15}FeN_3Na_3O_{15}S_3 = 878.5$

2747 Naphthol Green B (C.I. 10020)

LABCHEM

Description: Yellowish green coloured powder
 pH(1% Aqueous soln. @ 25°C).....8.9 – 9.3

Pack size: 50g

1-Naphtholbenzein (pH Indicator)

CAS 145-50-6
 $C_{27}H_{18}O_2 = 374.44$

2358 1-Naphtholbenzein (pH Indicator) (Used as an indicator in 0 – 1.0 in 100ml 2-Propanol)

LABCHEM

pH 8.5 – 9.8.....Yellow to green

Pack Size: 5g

1-Naphtholphthalien

CAS 596-01-0
 $C_{28}H_{18}O_4 = 418.45$

3114 1-Naphtholphthalien

LABCHEM

pH 7.1 – 8.3.....Brownish pink to blue

Maximum limit of impurities(%)

L.O.D. @ 105°C.....2

Pack Size: 1g

1,2-Naphthoquinone-4-Sulfonic Acid Sodium Salt

CAS 521-24-4
Synonyms: 1,2-Naphthoquinone-4-Sulphate
 $C_{10}H_5NaO_3S = 260.20$

3076 1,2-Naphthoquinone-4-Sulfonic Acid Sodium Salt (For determination of amines and amino acid)

LABCHEM

Assay.....99% Min.

Maximum limit of impurities(%)

SO₄.....0.05

Total N.....0.05

L.O.D. @ 105°C.....1%

Solubility for detection of..... To pass test amino acid

Pack Size: 5g, 25g

1,2-Naphthoquinone-4-Sulphate (See 1,2-Naphthoquinone-4-Sulphonic Acid Page 300)

1-Naphthyl Acetate

CAS 830-81-9
 $C_{12}H_{10}O_2 = 186.21$

244 1-Naphthyl Acetate (Naphthol free substrate for esterase assay, store in refrigerator)

LABCHEM

Assay.....99.5% Min.

M.P.....44 – 49°C

1 Naphthalene.....0.1%

Pack Size: 25g

1-Naphthylacetic Acid

CAS 86-87-3
 $C_{10}H_7CH_2COOH = 186.21$

766

1-Naphthylacetic Acid

LABCHEM

Assay.....96% min.
 M.P.129-132°C

Maximum limit of impurities(%)
 2-Naphthylactic Acid. 3.0

Pack Size: 25g

N-(1-Naphthyl)Ethylenediamine, Dihydrochloride

CAS 1465-25-4

(C₁₀H₇NH₂CH₂CH₂NH₃)Cl₂ = 259.18

3077

N-(1-Naphthyl)Ethylenediamine, Dihydrochloride

LABCHEM

Assay (ex N).....99% min.

Maximum limit of impurities(%)
 Sulph.ash..... 0.2
 Suitability for detection of Sulphonamides. To pass test

Pack Size: 10g

Natural Red 4 (See Carminic Acid Page 129)

Natural Red 28 (See Orcein Page 316)

Natural Yellow 3 (See Curcumin Page 161)

Neocuproine Hydrochloride Hydrate

CAS 41066-08-4

Synonym: 2,9 Dimethyl-1-10-Phenanthroline hydrochloride hydrate

C₁₄H₁₃ClN₂ = 244.73 (anhydrous basis)

1030

Neocuproine Hydrochloride Hydrate (Clinical reagent for automatic determination of blood glucose, reagent for copper)

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)
 Sulphated ash. 0.1

Pack Size: 1g

Neomycin Sulphate

CAS 1405-10-3

3432 Neomycin Sulphate For Bacteriology Activity per mg 670 IU (Keep in refrigerator) *LABCHEM*

pH (5% soln).....5.0 – 8.0

Pack Size: 25g

Neothorone (See Arsenazo I Page 70)

Nessler's Reagent

U.N Number.....3287
ADG Class.....6.1
Packing Group.....III



668 Nessler's Reagent *LABCHEM*

For the detection of ammonium salts.
Potassium mercury (II) iodide solution.
SG.....1.15g/mL.

Pack Size: 500mL

Neutral Buffered Formalin

2518 Neutral Buffered Formalin *LABCHEM*

A micro anatomical fixative for preservation of specimens.
Appearance: Clear (APHA).....10 max.
Formaldehyde.....3.9 – 6.0% w/v
pH.....(@ 25°C) 6.8 – 7.2

Pack Size: 500mL, 5L, 20L

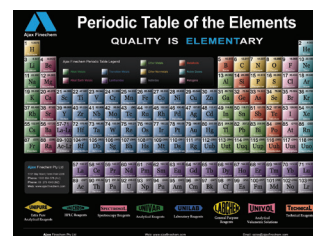
2653 Neutral Buffered Formalin, Self Indicating *LABCHEM*

A micro anatomical fixative for preservation of specimens, tinted pale purple. Change the solution if colour is yellow, which indicates an acidic, inactive fixative.
Formaldehyde Content.....3.9-4.2% w/v
pH@ 25°C.....6.8 – 7.2

Pack Size: 6X2.5L, 20L

Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at www.ajaxfinechem.com/Marketing or email your request to sales@ajaxfinechem.com



Neutral Red (CI 50040)

CAS 553-24-2
 $C_{15}H_{17}ClN_4 = 288.78$

2355 Neutral Red (CI 50040)

LABCHEM

Adsorption, pH and redox indicator.
 Visual Transition Interval: pH 6.8 (red) to pH 8.0 (yellow)

Transition EMF (@ pH=0).....+0.24V
 Transition EMF (@ pH=7).....-0.29V
 Colour change: Oxidised (purple) to reduced (colourless)

Pack Size: 25g

1841 Neutral Red Solution

LABCHEM

1% aqueous solution

Pack Size: 1L, 5L

Nickel 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2644 Nickel 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Nickel standard, ready for use.
 Ni in 0.5% Nitric acid.

Pack Size: 100mL

Nickel AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2635 Nickel AAS Standard

SPECTROSOL

A 1000 ppm nickel standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ni in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: www.ajaxfinechem.com/Univar

Nickel Fine Powder

CAS 7440-02-0
Ni = 58.71

U.N Number.....3089
ADG Class.....4.1
Packing Group.....II



3080 Nickel Fine Powder

LABCHEM

Assay.....99.8% min.

Maximum limit of impurities(%)

Fe.....0.01
S.....0.001

C.....0.08
O.....0.15

Pack Size: 100g

Nickel Acetate

CAS 373-02-4
(CH₃COO)₂Ni.4H₂O = 248.86

1504 Nickel Acetate

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

Cl.....0.01
SO₄.....0.05

Fe.....0.01
Co.....0.1

Pack Size: 500g

Nickel Ammonium Sulphate (See Ammonium Nickel Sulphate Page 57)

Nickel Carbonate

CAS 3333-67-3
Approx. NiCO₃.2Ni(OH)₂.4H₂O

338 Nickel Carbonate

UNILAB

Assay(Ni).....44.0 - 50.0%

Maximum limit of impurities(%)

Cl.....0.02
Co.....0.1

Fe.....0.01

Pack Size: 500g, 10kg

Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Safe for the environment

- <> Non-Hazardous
- <> Harmless

Cat-No **Pack Size**
8745 500g, 1kg, 3kg, 5kg, 25kg

Nickel Chloride

CAS 7718-54-9
 $\text{NiCl}_2 \cdot 6\text{H}_2\text{O} = 237.71$

U.N Number.....3288
 ADG Class.....6.1
 Packing Group.....III



829

Nickel Chloride

UNIVAR

Description: green crystals or crystalline powder.

Assay.....99% min.
 pH (5% soln.)3.5 min.

Maximum limit of impurities(%)

Insolubles.....	0.005	Cu.....	0.005
SO ₄	0.02	Fe.....	0.002
Zn.....	0.005	Na.....	0.005
Ca.....	0.005	Pb.....	0.003
Cd.....	0.002	K.....	0.01
Co.....	0.005		

Pack Size: 500g

830

Nickel Chloride

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

SO ₄	0.02	Fe.....	0.02
-----------------------	------	---------	------

Product solidifies on storage.

Pack Size: 500g

Nickel Nitrate

CAS 13138-45-9
 $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O} = 290.81$

U.N Number.....2725
 ADG Class.....5.1
 Packing Group.....III



1144

Nickel Nitrate

UNIVAR

Description: green crystals or crystalline powder.

Assay.....98.0% min.
 pH (5% soln.).....3.5 min.

Maximum limit of impurities(%)

Insol.....	0.003	Pb.....	0.002
Cl.....	0.001	Cu.....	0.002
SO ₄	0.005	Fe.....	0.0005
Ca.....	0.02	K.....	0.005
Cd.....	0.002	Na.....	0.01

Pack Size: 500g

339 **Nickel Nitrate** UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	Fe.....	0.05
SO ₄	0.1	Pb.....	0.05

Pack Size: 500g

Nickel oxide

340 **Nickel Oxide Green** UNILAB

Assay (Ni).....70% min.

Maximum limit of impurities(%)

Fe.....	0.01	H.M. (as Pb).....	0.02
SO ₄	0.3	Insoluble (HCl).....	0.05

Pack Size: 500g

Nickel Sulphate

CAS 7786-81-4
NiSO₄·6H₂O = 262.86

U.N Number.....3077
ADG Class.....9
Packing Group.....III



831 **Nickel Sulphate** UNIVAR

Description: Green crystals or crystalline powder.

Assay.....99 min.

pH (5%)4-6

Maximum limit of impurities(%)

Insol.....	0.005	Pb.....	0.003
Cl.....	0.001	Ca.....	0.005
N cpds. (as N).....	0.002	Cu.....	0.002
Co.....	0.002	K.....	0.005
Mn.....	0.0005	Mg.....	0.005
Fe.....	0.001	Na.....	0.01

Conforms to ACS

Pack Size: 500g

832 **Nickel Sulphate** UNILAB

Assay.....96.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	Fe.....	0.005
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Pack Size: 500g

Nicotinic Acid

CAS 59-67-6
 $C_5H_4NCOOH = 123.11$

2369 Nicotinic Acid UNILAB

Assay(after drying).....99.0% min.
 M.P.234-237°C

Maximum limit of impurities(%)

Sulph. ash..... 0.1
 Pb..... 0.001 H₂O..... 0.5

Pack Size: 100g

Nigrosine (C.I. 50420)

CAS 8005-03-6

3243 Nigrosine (C.I. 50420) LABCHEM

Description: Blackish blue crystalline powder

Pack size: 25g, 100g

Nile Blue Chloride For Microscopy C. I. 51180

CAS 2381-85-3
 $C_{20}H_{20}ClN_3O = 353.85$

3238 Nile Blue Chloride For Microscopy C. I. 51180 LABCHEM

Absorption.....638nm max.
 Dye Content.....90% min.

Pack Size: 25g

Ninhydrin

CAS 485-47-2
 $C_9H_4O_3.H_2O = 178.14$

801 Ninhydrin UNIVAR

Reagent for amino acids.

Description: White to brownish-white crystals or crystalline powder.

Identification and M.P. To pass test

Maximum limit of impurities(%)

Sol. (in H₂O). To pass test Sensitivity to amino acids.....To pass test

Conforms to ACS

Pack Size: 5g, 25g, 500g

Nitric Acid

CAS 7697-37-2
HNO₃ = 63.01

U.N Number.....2031
ADG Class.....8
Packing Group.....II



1404 Nitric Acid, Extra Pure

UNIPURE

Assay.....67 - 70%

Maximum limit of impurities (ppb)

Al.....1	Mn.....1
Sb.....1	Hg.....1
As.....1	Mo.....1
Ba.....1	Ni.....1
Be.....1	K.....1
Bi.....1	Se.....1
B.....1	Ag.....1
Cd.....1	Na.....1
Ca.....1	Sr.....1
Cr.....1	Th.....1
Co.....1	Sn.....1
Cu.....1	Ti.....1
Fe.....1	U.....1
Pb.....1	V.....1
Li.....1	Zn.....1
Mg.....1	Zr.....1

Pack size: 500mL, 2.5L

341 Nitric Acid 70%

UNIVAR

Description: colourless liquid, free from suspended matter or sediment. May darken during storage due to a photochemical reaction.

Density.....about 1.42g/mL
Assay.....68.0 - 70.0% w/w
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.I.....0.0005	Mn.....0.000001
Cl.....0.00005	Sr.....0.000002
SO ₄.....0.0001	Mo.....0.000002
PO ₄.....0.00005	Cu.....0.000002
SiO ₂.....0.00005	Cd.....0.000002
Al.....0.00001	Ba.....0.000005
Zn.....0.00001	Cr.....0.000005
K.....0.00002	Pb.....0.000005
Mg.....0.00002	Ni.....0.000005
Fe.....0.00002	Ca.....0.0001
As.....0.000001	Na.....0.0003
Co.....0.000001	Heavy metals(as Pb).....0.00002

Conforms to ACS

Pack Size: 500mL, 2.5L, 15L, 200L

937 Nitric Acid 70%

LABCHEM

Assay.....67.0% w/w min.

Maximum limit of impurities(%)

Cl.....0.001	Heavy metals(as Pb).....0.001
SO ₄.....0.001	

Pack Size: 500mL, 2.5L GL, 2.5L PL

1380 Nitric Acid 70% W/W TECHNICAL

Density.....about 1.42g/mL
 Appearance: Colourless to straw.
 Assay.....69 - 71% w/w

Pack Size: 2.5L

Nitrilotriacetic Acid

CAS 139-13-9
 $N(CH_2COOH)_3 = 191.14$

342 Nitrilotriacetic Acid UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

SO₄..... 0.07 L.O.D..... 0.5

Pack Size: 100g

2-Nitroaniline

CAS 88-74-4
 $C_6H_6N_2O_2 = 138.12$

U.N Number.....1661
 ADG Class.....6.1
 Packing Group.....II

**343 2-Nitroaniline** UNILAB

Assay.....98% min.
 M.P.68 – 71°C

Pack Size: 250g

3-Nitroaniline

CAS 99-09-2
 $C_6H_6N_2O_2 = 138.12$

U.N Number.....1661
 ADG Class.....6.1
 Packing Group.....II

**3081 3-Nitroaniline** UNILAB

Assay.....99% min.
 M.P.109 – 112°C

Pack Size: 250g

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
 Discover more: www.ajaxfinechem.com/Labchem

4-Nitroaniline

CAS 100-01-6
 $C_6H_6N_2O_2 = 138.12$

U.N Number.....1661
ADG Class.....6.1
Packing Group.....II



344 4-Nitroaniline

UNILAB

Assay.....98.5% min.
M.P.146 – 149°C

Maximum limit of impurities(%)
Sulphated ash..... 0.05

Pack Size: 250g

2-Nitrobenzaldehyde

CAS 552-89-6
 $C_7H_5NO_3 = 151.12$

3082 2-Nitrobenzaldehyde (Fluorometric reagent for PCA formed by L-Amino acid oxidase, reagent for methyl ketones)

UNIVAR

Assay (hydroxylamine titration).....99% min.
M.P.41 – 43°C

Maximum limit of impurities(%)
H.M. (as Pb)..... 0.001
Fe..... 0.0005

Sulphated ash..... 0.1

Pack Size: 10g

4-Nitrobenzaldehyde

CAS 555-16-8
 $C_7H_5NO_3 = 151.12$

3083 4-Nitrobenzaldehyde (for colorimetric determination of aminosugars)

UNIVAR

EC No.209-084-5
Assay (HPLC).....≥ 99.0%
M.P.104 – 106°C

Maximum limit of impurities(%)
Ignition residue..... 0.05

Pack Size: 25g

HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at www.ajaxfinechem.com/Unichrom

Nitrobenzene

CAS 98-95-3
 $C_6H_5NO_2 = 123.11$

U.N Number.....1662
 ADG Class.....6.1
 Packing Group.....II



345

Nitrobenzene

UNIVAR

Description: pale yellow liquid with a characteristic odour.

R.Iabout 1.553

Assay.....99.0% min.

Maximum limit of impurities(%)

R.A.E..... 0.005

Water-sol. titratable acid.....0.0005 meq/g

Cl..... 0.0005

Conforms to ACS

Pack Size: 500mL, 2.5L

346

Nitrobenzene

UNILAB

Density.....about 1.2g/mL

Assay.....99.0% min.

Maximum limit of impurities(%)

Free Acid (HNO_3)..... 0.005

Pack Size: 2.5L

Nitrobenzol (See Nitrobenzene Page 311)

Nitro Blue Tetrazolium Chloride (See Nitro B.T. Page 311)

Nitro B.T.

CAS 298-83-9

Synonyms: Nitro blue tetrazolium chloride

$C_{40}H_{30}N_{10}O_6Cl_2 = 817.65$

2344

Nitro B.T. (Used for estimating dehydrogenase enzymes. totally soluble formazan free)

LABCHEM

Absorption maxima in methanol.....256 – 259nm

Spec. Absorptivity.....800 - 900

(A 1%/1cmlambdamax;.....0.001%

methanol; calc. on dried substance)

Maximum limit of impurities(%)

L.O.D. @ 110°C..... <10

Suitability for microscopy..... to pass test

Pack Size: 1g

Nitrocarbol (See Nitromethane Page 312)

Nitromethane

CAS 75-52-5
 $\text{CH}_3\text{NO}_2 = 61.04$

U.N Number.....1261
ADG Class.....3
Packing Group.....II



712 Nitromethane

UNILAB

R.I.....about 1.382
B.R.(95% min.).....98-100 °C
Density.....1.13 – 1.14 g/mL
Assay (GC).....99% min.

Pack Size: 500mL

2-Nitrophenol

CAS 88-75-5
 $\text{C}_6\text{H}_5\text{NO}_3 = 139.11$

U.N Number.....1663
ADG Class.....6.1
Packing Group.....III



3085 2-Nitrophenol

LABCHEM

Assay.....99% min.
M.P.43 – 45°C

Pack Size: 500g

3-Nitrophenol Indicator

CAS 554-84-7
 $\text{C}_6\text{H}_5\text{NO}_3 = 139.11$

U.N Number.....1663
ADG Class.....6.1
Packing Group.....III



1148 3-Nitrophenol Indicator

UNILAB

Assay (acidimetric).....99% min.
M.P.96 – 98°C
pH 6.6 – 8.6.....Colourless to yellow orange

Pack Size: 5g, 25g

4-Nitrophenol

CAS 100-02-7
 $\text{C}_6\text{H}_4\text{OHNO}_2 = 139.11$

U.N Number.....1663
ADG Class.....6.1
Packing Group.....III



3086 4-Nitrophenol

OP

pH indicator.

Pack Size: 25g

1-Nitroso-2-Naphthol

CAS 131-91-9
 $C_{10}H_7NO_2 = 173.17$

1149 1-Nitroso-2-Naphthol(Metal and Micro Reagent)

LABCHEM

M.P.107 – 109°C

Maximum limit of impurities(%)
 Sulphated ash..... 0.2

Pack Size: 25g

1-Nitroso-2-Naphthol-3,6 Disulphonic Acid,Disodium Salt Hydrate (See Nitroso-R-Salt Page 313)

N-Nitroso-N-Phenylhydroxylamine Ammonium Salts (See Cupferron Page 160)

Nitroso-R-Salt

CAS 525-05-3
Synonym: 1-Nitroso-2-Naphthol-3,6 disulphonic acid,disodium salt hydrate
 $C_{10}H_5O_8NS_2Na_2 \cdot xH_2O = 377.3$

2299 Nitroso-R-Salt

UNILAB

Assay (iodometric).....90% min.
 Sensitivity to cobalt.....1:1000000

Maximum limit of impurities(%)
 R.O.I. (as SO_4).....37
 L.O.D.....1

Suitability for determination of Co.To pass test

Pack Size: 25g

4-Nitrotoluene

CAS 99-99-0
Synonyms: 1-Methyl-4Nitrobenzene
 $C_7H_7NO_2 = 137.14$

U.N Number.....1664
 ADG Class.....6.1
 Packing Group.....II



1150 4-Nitrotoluene For Synthesis

UNILAB

Assay.....98% min.
 M.P.50 – 53°C

Maximum limit of impurities(%)
 Sulphated ash..... 0.05

Pack Size: 500g

Octadecanoic Acid (See Stearic Acid Pdr Page 432)

1-Octadecanol

CAS 112-92-5

Synonyms: Stearyl alcohol; Octadecyl alcohol

$C_{18}H_{38}O = 270.49$

3088 1-Octadecanol

LABCHEM

Assay (GC).....>96%

M.P.55 – 58°C

Pack Size: 500g

Octadecyl Alcohol (See 1-Octadecanol Page 314)

1-Octane Sulphonic Acid

CAS 3944-72-7

$C_8H_{17}SO_3Na.H_2O = 234.30$

U.N Number.....2920

ADG Class.....8

SUB.....3

Packing Group.....II



2341 1-Octane Sulphonic Acid 0.25M in acetic acid

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Pack Size: 5X20mL

1-Octane Sulphonic Acid Sodium Salt

CAS 5324-84-5

$C_8H_{17}SO_3Na = 216.26$

2417 1-Octane Sulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Assay.....99% min.

Pack Size: 10g

n-Octanoic Acid

CAS 124-13-0

$C_8H_{16}O_2 = 144.21$

U.N Number.....3265

ADG Class.....8

Packing Group.....III



2465 n-Octanoic Acid

UNILAB

Description: Pale yellow oily liquid

Assay.....99.0% min.

Pack size: 250mL

Octan-1-Ol

CAS 111-87-5
 $\text{CH}_3(\text{CH}_2)_7\text{OH} = 130.23$

2370 Octan-1-Ol

UNILAB

Density.....about 0.827g/mL
 R.I.....about 1.429
 Boiling Point (760mm).....196°C
 Colour(APHA).....10
 Assay.....99% min.

Maximum limit of impurities(%)
 R.A.E..... 0.004

Titration acid.....0.0002 meq/g

Conforms to ACS

Pack Size: 500mL, 2.5L GL

Octan-2-Ol

CAS 123-96-6
 $\text{CH}_3(\text{CH}_2)_5\text{CHOHCH}_3 = 130.23$

2379 Octan-2-Ol

LABCHEM

Assay (GC).....97% min.

Maximum limit of impurities(%)
 N.V.M..... 0.01

Pack Size: 500mL

n-Octanol (See Octan-1-ol Page 315)

Sec-Octanol (See Octan-2-ol Page 315)

Octyl Sulphate, Sodium Salt For HPLC

CAS 142-31-4
 $\text{CH}_3(\text{CH}_2)_7\text{OSO}_3\text{Na} = 232.28$

3762 Octyl Sulphate, Sodium Salt For HPLC

OP

Assay.....99.0% min.
 U.V. max. absorption.....250nm

Maximum limit of impurities(%)
 L.O.D..... 2.0

Cl..... 0.05

Pack size: 5g

Oil Red O (C.I. 26125)

CAS 1320-06-5
 $C_{26}H_{24}N_4O = 408.51$

3248 Oil Red O (C.I. 26125)

LABCHEM

Appearance: Reddish brown powder

Pack size: 25g

Oleic Acid

CAS 112-80-1
 $C_{17}H_{33}COOH = 282.47$

1151 Oleic Acid

LABCHEM

Congealing point.....about 8°C
Acid Value (mg KOH/gm).....195 – 204
Iodine (gm I₂/ 100 gm).....86-97
Cloud point.....10°C
Colour (5 ¼ " LOV)11.0Y/1.3R

Pack Size: 500mL, 2.5L

Orange G (CI 16230)

CAS 1936-15-8

3246 Orange G (CI 16230)

OP

Stain for microscopy.

Pack Size: 50g

Orcein

CAS 1400-62-0

3247 Orcein

OP

Pack Size: 25g

Orcinol Monohydrate

CAS 6153-39-5
Synonyms: 3,5-Dihydroxytoluene
 $C_7H_8O_2 \cdot H_2O = 142.16$

3089 Orcinol Monohydrate (Reagent for sugars)

LABCHEM

Assay.....99% min.
M.P.56 – 58°C

Pack Size: 10g

Orthophosphoric Acid 85%

CAS 7664-38-2
H₃PO₄ = 98.00

U.N Number.....1805
ADG Class.....8
Packing Group.....III



371 Orthophosphoric Acid 85%

UNIVAR

Description: Clear, viscous liquid; odourless.

Density.....about 1.69g/mL
Assay.....85.0% w/w min.
Colour (APHA).....10 max.

Maximum limit of impurities(%)

Cl. 0.0003
NO₃ 0.0005
SO₄ 0.003
Silicate (SiO₂) 0.005
Volatile acids (asCH₃COOH)K,Na 0.001
Reducing substances To pass test
Fe 0.0015
Cu 0.0001
Co 0.0001
Cd 0.0001

As 0.0001
Zn 0.0002
Pb 0.0002
Ni 0.0005
Sb 0.0005
Ca 0.002
Mn 0.00005
Insol. matter 0.001
H.M. (as Pb) 0.001
Mg 0.002

Conforms to ACS

Pack Size: 500mL, 2.5L

372 Orthophosphoric Acid 85%

UNILAB

Density.....about 1.7g/mL
Assay.....84.0% w/w min.

Maximum limit of impurities(%)

Cl. 0.001
NO₃ 0.002
SO₄ 0.01

Ca & Mg ppt 0.01
Fe 0.01

Pack Size: 500mL, 2.5L

373 Orthophosphoric Acid 81%

UNIVAR

Description: Colourless, clear or light colour viscous liquid

Assay.....81.0% w/w min.
Colour (APHA).....10 max.

Maximum limit of impurities(%)

As 0.0005
F 0.001
H.M. (as Pb) 0.0005
Readily Oxidizable subs. (as H₃PO₃) 0.012
Cl 0.0001

SO₄ 0.003
Fe 0.0001
Cd 0.0003
Pb 0.0003

Pack Size: 2.5L

2212 Orthophosphoric Acid 81%

LABCHEM

Description: Clear, viscous liquid; odourless.

Assay.....80-82%

Maximum limit of impurities(%)

As 0.0001

H.M. (as Pb) 0.001

Pack Size: 2.5L

1530 Orthophosphoric Acid 25% UNIVAR

Description: Clear liquid
 Assay.....24.0 – 26.0% w/w
 Density @ 25°C.....~1.1468

Pack Size: 2.5L

Orthophosphorous Acid (See Phosphorous Acid (Crystals) Page 335)

Osmic Acid

CAS 20816-12-0
 OsO₄ = 254.20

U.N Number.....2471
 ADG Class.....6.1
 Packing Group.....I



369 Osmic Acid LABCHEM

Suitable for EM work.
 Appearance: Yellow monoclinic crystals.
 M.P:.....39.5°C
 B.P:.....130°C (sublimes)
 Assay.....99.95% min.

Maximum limit of impurities(%)
 Ru (DCP-AES)..... 0.002
 H₂O..... 0.004
 NVM..... 0.002

Store below 4°C (refrigerate do NOT freeze)

Pack Size: 0.1g, 1g

Osmium Tetroxide (See Osmic Acid Page 318)

Oxalic Acid

CAS 6153-56-6
 (COOH)₂.2H₂O = 126.07

U.N Number.....3261
 ADG Class.....8
 Packing Group.....III



350 Oxalic Acid UNIVAR

Description: colourless crystals or crystalline powder.
 Assay.....99.5 - 102.5%

Maximum limit of impurities(%)
 Insol..... 0.005
 R.A.I..... 0.01
 Cl..... 0.002
 N cpds (as N)..... 0.001
 SO₄..... 0.005
 Ca..... 0.001
 Fe..... 0.0002
 H.M. (as Pb)..... 0.0005
 Subs. darkened by hot H₂SO₄ To pass test

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

351 Oxalic Acid UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Sulph. ash.....	0.05	Fe.....	0.001
Cl.....	0.002	H.M. (as Pb).....	0.002
SO ₄	0.05		

Pack Size: 500g

1152 Oxalic Acid TECHNICAL

Pack Size: 500g, 3kg

1395 Oxalic Acid 0.05mol Concentrate, Ampoule OP

Description: plastic ampoule containing clear colourless liquid
0.05 mole (6.303g C₂H₂O₄) to prepare 1L of 0.1N solution
Molarity.....0.0499 - 0.0501

Pack size: Ampoule

Palladium Chloride (Pd 59-60%)

CAS 7647-10-1
PdCl₂ = 17731

U.N Number.....3288
ADG Class.....6.1
Packing Group.....II



195 Palladium Chloride (Pd 59-60%) LABCHEM

Pd content.....59 - 60%

Pack Size: 1g

Palmitic Acid

CAS 57-10-3
CH₃(CH₂)₁₄COOH = 256.43

1505 Palmitic Acid UNILAB

Assay (GC).....98% min.

Maximum limit of impurities(%)

Stearic acid (GC).....	.1	Acid number.....	.240
Iodine number.....	0.5	Saponification number.....	.240

Pack Size: 500g

(+) Pantothenic Acid Calcium (See Calcium-D-Pantothenate Page 125)

PAR Indicator (See 4-(2-Pyridylazo)-Resorcinol Page 372)

Paraffin Liquid

CAS 8012-95-1

356 Paraffin Liquid

LABCHEM

Density.....0.83 - 0.89g/mL

Pack Size: 500mL, 2.5L, 20L

Paraffin Wax

CAS 8002-74-2

3251 Paraffin Wax, pastillated, M.P.56-58 °C

LABCHEM

Specially purified for histological embedding.

Pack Size: 1Kg

3250 Paraffin Wax, pastillated

OP

Melting point 52°C.

Pack Size: 1kg, 5kg

PAN (See 1-(2-Pyridylazo)-2-Naphthol Page 372)

PEG 200 (See Polyethylene Glycol 200 Page 338)

N-Pentane

CAS 109-66-0
 $\text{CH}_3(\text{CH}_2)_3\text{CH}_3 = 72.15$

U.N Number.....1265

ADG Class.....3

Packing Group.....I



276 N-Pentane 99%

SPECTROSOL

Density.....0.626 g/mL

M.P.-129°C

B.P.36.1°C

Assay (GC).....99.0% min.

Acidity (mEq/g).....0.0005 max.

FTIR Spectrum.....To Pass test

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.01

R.O.E. 0.0005

Max. UV. Absorbance:

λ (nm)	200	210	220	230	240
Absorbance	0.70	0.22	0.07	0.02	0.009

Pack Size: 500mL, 2.5L GL

632 n-Pentane

UNIVAR

Description: clear volatile liquid.

Assay(GC).....99.0 % w/w min.

Density.....0.620-0.630 g/mL

R.I.1.356 – 1.359

Maximum limit of impurities(%)

Non-vol. 0.002

Acidity (as CH_3COOH)..... 0.002

Pack Size: 500mL, 2.5L, 20L, 200L

1153 n-Pentane

UNILAB

Assay.....99% min.
 Density.....about 0.62 g/mL
 B.R.(95% min.).....34 – 37°C

Maximum limit of impurities(%)
 Non-vol..... 0.005

Pack Size: 500mL, 2.5L, 20L, 200L

Iso-Pentane

CAS 78-78-4
 $(\text{CH}_3)_2\text{CHC}_2\text{H}_5 = 72.15$

U.N Number.....1265
 ADG Class.....3
 Packing Group.....I

**1521** Iso-Pentane

UNILAB

Density.....about 0.62g/mL
 B.R.(95% min.).....27 - 30°C
 Assay.....95% min.
 Colour (APHA).....10 max.

Maximum limit of impurities(%)
 Non-vol..... 0.005

Pack Size: 500mL, 20L, 200L

1-Pentane Sulphonic Acid Sodium Salt

CAS 22767-49-3
 $\text{C}_5\text{H}_{11}\text{SO}_3\text{Na} = 174.19$

2414 1-Pentane Sulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Appearance: White flakes

Assay.....98% min.

Pack Size: 10g

1-Pentane Sulphonic Acid

CAS 35452-30-3
 $\text{C}_5\text{H}_{12}\text{SO}_3 = 152.19$

2338 1-Pentane Sulphonic Acid 0.25 mol/L in acetic acid

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Non-volatile matter.....42.8 - 44.2mg/mL

UV absorbance.....1.0 max (@ 354 nm)

Pack Size: 5X20mL

2,4-Pentanedione (See Acetylacetone Page 27)

Pentan-1-ol

CAS 71-41-0
CH₃(CH₂)₄OH = 88.15

U.N Number.....1105
ADG Class.....3
Packing Group.....III



1357 Pentan-1-ol (n-Amyl Alcohol)

UNIVAR

Assay.....98.0% min.
Colour (APHA).....30

Maximum limit of impurities(%)

Acids and Esters.....0.075 meq/g
Carbonyl compounds (HCHO).....0.1

Residue after Evaporation.....0.003
Water.....0.5

Pack size: 500mL

63 Pentan-1-ol

UNILAB

Density.....about 0.81g/mL
R.I.....about 1.410
Assay (GC).....99% min.
Water.....0.2% max.
Colour (APHA).....15 max.

Pack Size: 500mL, 2.5L

Iso-Pentyl Alcohol (See Iso-Amyl Alcohol Page 62)

Peptone

2331 Peptone, Bacteriological

LABCHEM

High purity for general bacteriological work.

Pack Size: 250g

Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation

Simply visit: www.ajaxfinechem.com/Unipure



Perchloric Acid

CAS 7601-90-3
HClO₄ = 100.46

U.N Number.....1873
ADG Class.....5.1
SUB.....8
Packing Group.....I



359

Perchloric Acid 70%

UNIVAR

Description: clear, viscous liquid; odourless.

Density.....about 1.70g/mL
Assay.....69.0 - 72.0% w/w
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.I.....	0.003
Cl.....	0.001
N cpds (as N).....	0.001
HM (as Pb).....	0.0001
SiO ₂ & PO ₄ (as SiO ₂).....	0.0005
SO ₄	0.001
Free Chlorine.....	0.0001
Al.....	0.000005
As.....	0.000005
Ba.....	0.000005
Co.....	0.000005
Pb.....	0.000005

Mo.....	0.000005
Cd.....	0.000005
Ca.....	0.000005
Mg.....	0.000005
Na.....	0.000005
Cu.....	0.000001
Ni.....	0.000001
K.....	0.000001
Ag.....	0.000001
Zn.....	0.000001
Sr.....	0.000002
Fe.....	0.000001

Conforms to ACS

Pack Size: 500mL, 2.5L

Perchloric Acid 0.1M In Acetic Acid

U.N Number.....2920
ADG Class.....8
SUB.....3
Packing Group.....II



2281

Perchloric Acid 0.1M In Acetic Acid

UNIVOL

For non-aqueous titrations.

Molarity.....0.0995-0.1005mol/L

Pack Size: 2.5L

Perchloroethylene (See Tetrachloroethylene Page 445)

Periodic Acid

CAS 13444-71-8
HIO₄·2H₂O = 227.94

U.N Number.....1479
ADG Class.....5.1
Packing Group.....II



2389

Periodic Acid

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Sulphated ash..... 0.5

Pack Size: 25g

Periodic Acid 1% Solution

U.N Number.....3265
ADG Class.....8
Packing Group.....III



1834 Periodic Acid 1% Solution

LABCHEM

Periodic Acid 1% aqueous solution

Pack Size: 500mL

Periodic Acid 50% Solution

U.N Number.....3265
ADG Class.....8
Packing Group.....III



1846 Periodic Acid 50% Solution

LABCHEM

Periodic Acid 50% aqueous solution

Pack Size: 500mL

Petroleum Ether (See Petroleum Spirit 30 - 40°C Page 324)

Petroleum Spirit B.R.30-40 °C.

CAS 64742-49-0

U.N Number.....1268
ADG Class.....3
Packing Group.....I



1158 Petroleum Spirit B.R.30-40 °C.

UNIVAR

Description: clear, colourless, volatile liquid.

Density.....about 0.62g/mL

B.R.(90% min.).....30 - 40°C

Maximum limit of impurities(%)

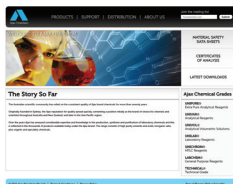
Non-vol..... 0.001

Acidity..... 0.0013 mmol H

S cpds (as CS₂)..... 0.0003

H₂O..... 0.015

Pack Size: 2.5L, 20L



Your Window to Ajax Finechem

The Ajax website www.ajaxfinechem.com truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

Petroleum Spirit B.R.40-60°C.

CAS 64742-49-0

U.N Number.....3295
 ADG Class.....3
 Packing Group.....II



2324 Petroleum Spirit B.R.40-60°C.

UNICHROM

Description: clear, colourless, volatile liquid.

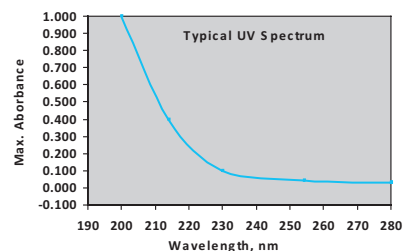
R.I1.369
 Viscosity @ 20°C.....0.28cP
 B.R.40 - 60°C
 ASSAY.....>99.5

Maximum limit of impurities(%)

Non-vol..... 0.001
 Acidity..... 0.013 mmol H
 H₂O (by K.F.)..... 0.01

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC. and pesticide residue analysis.



U.V. Absorbance:

λ(nm)	200	214	254	280
Max. abs	1.00	0.40	0.04	0.03

Pack Size: 2.5L

Petroleum Spirit B.R.40-60°C.(Aromatic free)

CAS 8032-32-4

756 Petroleum Spirit B.R.40-60°C. (Aromatic free)

UNIVAR

Description: Clear, colourless, volatile liquid.
 Free from aromatic hydrocarbons.

Density.....about 0.64g/mL.
 B.R.(90% min.).....40 - 60°C

Maximum limit of impurities(%)

Non-vol..... 0.001
 Acidity..... 0.0013 mmol H
 Aromatics (as C₆H₆)..... 0.001

S cpds (as CS₂)..... 0.0003
 H₂O..... 0.015

Pack Size: 2.5L, 20L

361 Petroleum Spirit B.R.40-60°C.

UNIVAR

Description: Clear, colourless, volatile liquid.

Density.....about 0.64g/mL.
 B.R.(90% min.).....40 - 60°C

Maximum limit of impurities(%)

Non-vol..... 0.001
 Acidity..... 0.0013
 S cpds (as CS₂)..... 0.0003
 H₂O (K.F.)..... 0.015
 Al..... 0.00001
 Ba..... 0.000005
 Mg..... 0.000005
 Cd..... 0.000005
 Pb..... 0.000005
 Ca..... 0.000005

Na..... 0.00005
 Zn..... 0.00005
 Cr..... 0.000002
 Co..... 0.000002
 Cu..... 0.000002
 Mn..... 0.000002
 Ni..... 0.000002
 Sr..... 0.000002
 Fe..... 0.00002
 K..... 0.00002

Conforms to ACS

Pack Size: 2.5L, 10L, 20L, 200L

Petroleum Spirit B.R.40-70°C.

CAS 110-54-3

U.N Number.....1208

ADG Class.....3

Packing Group.....II



1384 Petroleum Spirit B.R.40-70°C.

UNILAB

Density.....about 0.65g/mL
B.R.(90% min.).....40 - 70°C

Maximum limit of impurities(%)

Non-vol..... 0.005

Pack Size: 2.5L, 20L

Petroleum Spirit B.R.60-80°C.

CAS 110-54-3

U.N Number.....3295

ADG Class.....3

Packing Group.....II



362 Petroleum Spirit B.R.60-80°C.

UNIVAR

Description: Clear, colourless, volatile liquid.

Density.....about 0.67g/mL.
B.R.(90% min.).....60 - 80 °C

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.0013

S cpds (as CS₂)..... 0.0003

H₂O..... 0.015

Pack Size: 2.5L, 20L

Petroleum Spirit B.R. 80-110°C

CAS 8032-32-4

U.N Number.....1268

ADG Class.....3

Packing Group.....II



363 Petroleum Spirit B.R. 80-110 °C

UNIVAR

Description: Clear, colourless, volatile liquid.

Density.....about 0.69g/mL.
B.R.(90% min.).....80 - 110°C

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.0013

S cpds (as CS₂)..... 0.0003

H₂O..... 0.015

Pack Size: 2.5L, 20L

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

2401 pH Sticks, 0-14 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions
 Gradation: 0-1-2-3-4-5-6-7-8-9-10-11-12-13-14

Pack Size: 100

7870 pH Sticks 0-6 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions
 Gradation: 0-0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0

Pack Size: 100

7873 pH Sticks 2-9 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions
 Gradation: 2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0

Pack Size: 100

7871 pH Sticks 6-10 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions
 Gradation: 6.0-6.4-6.7-7.0-7.3-7.6-7.9-8.2-8.4-8.6-8.8-9.1-9.5-10.0

Pack Size: 100

7872 pH Sticks 7-14 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions
 Gradation: 7.0-7.5-8.0-8.5-9.0-9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0-13.5-14.0

Pack Size: 100

1,10 -Phenanthroline-Ferrous Complex Solution (See Ferroin Soln 0 .025M Page 204)

1,10-Phenanthroline Hydrate

CAS 5144-89-8
 $C_{12}H_8N_2 \cdot H_2O = 198.23$

U.N Number.....2811
 ADG Class.....6.1
 Packing Group.....III



365 1,10-Phenanthroline Hydrate UNIVAR

Reagent for Fe. Redox indicator.
Description: white to off-white crystals or crystalline powder.

Maximum limit of impurities(%)	
Suitability as redox indicator.	To pass test
Suitability for determining Fe.	To pass test
Transition EMF (@ pH=0).	+1.08 V
Transition EMF (@ pH=7).	+ 1.12 V
Colour change: Oxidized (faint blue) to reduced red)	

Conforms to ACS

Pack Size: 5g, 100g

O-Phenanthroline Hydrate (See 1-10 -Phenanthroline Hydrate Page 327)

Phenazone (See Antipyrine Page 69)

Phenethyl Alcohol

CAS 60-12-8
 $C_6H_5CH_2CH_2OH = 122.17$

1012 Phenethyl Alcohol

OP

Assay.....99.0% min.
 Density.....1.0200
 Dielectric constant @ 25°C.....9.93
 R.I. (n₂₀^o/D).....1.5310 - 1.5330

Pack size: 100g

Phenol

CAS 108-95-2
 $C_6H_5OH = 94.11$

U.N Number.....1671
 ADG Class.....6.1
 Packing Group.....II



366 Phenol

UNIVAR

Description: colourless hygroscopic crystals becoming pink on exposure to light or moisture.
 F.P.(dry basis).....40°C

Maximum limit of impurities(%)

Insol.....	0.005	Cu.....	0.000005
Non-vol.....	0.02	Tarry matter.....	no reaction
Acidity or alkalinity.....	0.04 mmol H or OH	Ba.....	0.00006
Cl.....	0.0005	Ca.....	0.0001
Al.....	0.0005	Sr.....	0.000002
Mg.....	0.0005	Co.....	0.000002
Zn.....	0.0005	Mn.....	0.000002
Fe.....	0.00015	Mo.....	0.000002
Pb.....	0.000005	Ni.....	0.000002
Cd.....	0.000005	K.....	0.001
Cr.....	0.000005	Na.....	0.001

Store below 4°C (refrigerate)

Pack Size: 500g, 5kg

1159 Phenol crystals

UNILAB

Colourless or faintly pink or faintly yellowish crystals or crystalline masses.

Assay.....99.0 - 100.5%
 F.P.....39.5°C min.

Maximum limit of impurities(%)

Acidity.....	To pass test	ROE.....	0.05
Clarity & colour of sol.....	To pass test		

Store below 4°C (refrigerate)

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

Phenol Red

CAS 143-74-8
 $C_{19}H_{14}O_5S = 354.37$

2300 Phenol Red LABCHEM

pH indicator.
 Visual transition colour
 pH (0.0) pink.....To pass test
 pH (2.0) and 6.8 yellow.....To pass test
 pH (8.2) red.....To pass test

Pack Size: 5g, 100g

7880 Phenol Red 1% Solution LABCHEM

Appearance: Intense red solution
 Free Alkalinity: Colour change red to orange @ 18.5mL ± 2mL
 Absorbance (0.05% @ 559nm).....0.80 – 0.92

Pack Size: 20L

Phenolphthalein

CAS 77-09-8
 $(HOC_6H_4)_2CC_6H_4COO = 318.33$

2656 Phenolphthalein UNILAB

A white or yellowish-white, crystalline or amorphous powder; odourless or almost odourless
 Assay(dried subst.).....98.0 - 102.0%
 Melting point.....258 – 263°C

Maximum limit of impurities(%)		
Heavy metals (as Pb).....	0.0020	L.O.D..... 1.0
Fluoran. ....	.To pass test	Sulphated ash..... 0.1

Chemical and physical parameters conform to BP

Pack Size: 100g

368 Phenolphthalein LABCHEM

Assay.....min 98%

Pack Size: 25g, 100g, 500g, 5kg, 25kg

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Phenolphthalein Solution

CAS 64-17-5

U.N Number.....1993

ADG Class.....3

Packing Group.....II



754 Phenolphthalein Solution

LABCHEM

pH indicator solution.

1.0% in methylated spirit.

pH 8.0 (colourless).....To pass test

pH 8.2 (pale pink).....To pass test

pH 8.6 (pink).....To pass test

pH 10.0 (red)..... To pass test

Pack Size: 100mL, 500mL

2-Phenoxyethanol

CAS 122-99-6

$C_6H_5OCH_2CH_2OH = 138.17$

586 2-Phenoxyethanol

LABCHEM

Density at (20°C).....about 1.07g/mL

Description: Mobile, colourless liquid. The product is sensitive to iron.

Assay by GLC.....99.0%

Pack Size: 500mL, 20L

Phenylacetonitrile (See Benzyl Cyanide Page 87)

N-Phenylacetamide (See Acetanilide Page 20)

Phenylacetic Acid

CAS 103-82-2

$C_6H_5CH_2COOH = 136.15$

1160 Phenylacetic Acid

UNILAB

Assay.....99% min.

M.P.75-78°C

Pack Size: 500g

DL-Phenylalanine

CAS 150-30-1

$C_9H_{11}NO_2 = 165.2$

3092 DL-Phenylalanine

UNILAB

Appearance: White crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

H.M (as Pb)..... 0.0005

Pack size: 25g

L-Phenylalanine

CAS 63-91-2
 $C_9H_{11}NO_2 = 165.2$

3430 L-Phenylalanine

UNIVAR

Appearance: White crystalline powder
 Assay.....99.0% min.
 Specific Rotation.....-33.0 to -35.2°

Maximum limit of impurities(%)
 H.M (as Pb)..... 0.002
 As..... 0.0003
 L.O.D..... 0.3

Pb..... 0.001
 R.O.I..... 0.1

Pack size: 25g

N-Phenylanthralinic Acid

CAS 91-40-7
Synonyms: DPC; Diphenylamine-2-Carboxylic acid
 $C_{13}H_{11}NO_2 = 213.24$

2526 N-Phenylanthralinic Acid (Redox indicator colourless to pinkish violet)

LABCHEM

Assay (T).....99% min.
 M.P.....182 – 185°C

Maximum limit of impurities(%)
 Sulphated ash..... 0.05

Pack Size: 10g

Phenyl Bromide (See Bromobenzene Page 98)

Phenylcarbinol (See Benzyl Alcohol Page 86)

Phenyl Chloride (See Chlorobenzene Page 136)

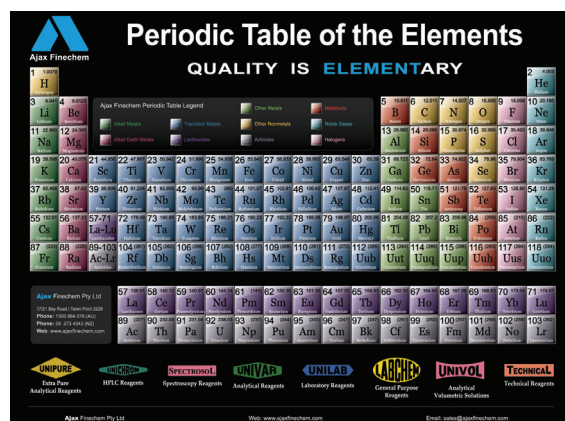
Phenyl Cyanide (See Benzonitrile Page 84)

Ajax Finechem Periodic Table

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m-Phenylenediamine Dihydrochloride

CAS 541-69-5
 $C_6H_8N_2 \cdot 2HCl = 181.07$

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



3094 m-Phenylenediamine Dihydrochloride

LABCHEM

Assay (AT).....99.0% min.

Pack Size: 100g

p-Phenylenediamine

CAS 106-50-3
Synonyms: 1,4-Diaminobenzene; 1,4-Benzenediamine
 $C_6H_4(NH_2)_2 = 108.14$

U.N Number.....1673
ADG Class.....6.1
Packing Group.....III



1161 p-Phenylenediamine

UNILAB

Assay.....97% min.
M.P.139 – 141°C

Maximum limit of impurities(%)
Sulphated ash..... 0.05

Pack Size: 250g

Phenylhydrazine

CAS 100-63-0
 $C_6H_8N_2 = 108.14$

U.N Number.....2527
ADG Class.....6.1
Packing Group.....II



1514 Phenylhydrazine (Reagent for aldehyde, ketones and sugar, For the detection of molybdenum)

UNILAB

Assay (HClO₄ Titration).....98% min.
M.P.19 – 20°C

Maximum limit of impurities(%)
Sulphated ash..... 0.005

Pack Size: 100mL

Phenylhydrazine Hydrochloride (See Phenylhydrazinium Chloride Page 333)

Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards. Discover More: www.ajaxfinechem.com/Unipure

Phenyhydrazinium Chloride

CAS 59-88-1
 $C_6H_5NHNH_2 \cdot HCl = 144.61$

U.N Number.....2527
 ADG Class.....6.1
 Packing Group.....III



1538 Phenyhydrazinium Chloride

LABCHEM

Reagent for aldehydes & ketones.
 Assay (iodate titration).....99.0% min.

Maximum limit of impurities(%)
 Sulphated ash..... 0.1

Pack Size: 250g

Phenyl Methane (See Toluene Page 454)

Phenyl Disodium Orthophosphate

CAS 3279-54-7
 $C_6H_5Na_2PO_4 \cdot 2H_2O = 254.09$

1285 Phenyl Disodium Orthophosphate

LABCHEM

Assay.....98% min.
 Maximum limit of impurities(%)
 L.O.D.15
 Free Phenol..... 0.02

Suitable for detmn of phosphatase

To pass test

Store below 4°C (refrigerate)

Pack Size: 100g

Phenyl Mercury Nitrate (Basic)

CAS 8003-05-2
 $C_{12}H_{11}Hg_2NO_4 = 634.41$

U.N Number.....1895
 ADG Class.....6.1
 Packing Group.....II



3095 Phenyl Mercury Nitrate (Basic) For Synthesis

LABCHEM

Assay (ex Hg).....99% min.
 M.P. (decomposition).....180 – 190°C

Pack Size: 25g, 100g

Phenyl Salicylate

CAS 118-55-8
 $HOC_6H_4COOC_6H_5 = 214.22$

2332 Phenyl Salicylate

LABCHEM

Appearance: White crystals.
 MP.....about 43°C

Pack Size: 100g

Phloroglucinol

CAS 108-73-6
C₆H₆O₃ = 126.1

1162 Phloroglucinol

UNIVAR

Appearance: White crystalline powder
Assay.....99.0% min.
Melting Point.....219 - 222°C

Maximum limit of impurities(%)
R.O.I..... 0.05

Pack size: 25g, 100g

Phloxine B

CAS 18472-87-2
Synonyms: Acid red 92; Cyanosine
C₂₀H₂Br₄Cl₄Na₂O₅ = 829.64

3173 Phloxine B For Microscopy (Microbial, protozoa, algal staining & eosinophile counting) C.I. 45410

LABCHEM

Absorption (in 50% ethanol).....546 – 550nm
Dye content.....80% min.

Pack Size: 25g

Phosphomolybdic Acid (See dodeca-Molybdophosphoric acid Page 297)

Meta-Phosphoric Acid

CAS 37267-86-0

U.N Number.....3260
ADG Class.....8
Packing Group.....III



3096 Meta-Phosphoric Acid (Glacial sticks)

UNILAB

HPO₃ (approx.).....60%
NaPO₃ (approx.).....40%

Maximum limit of impurities(%)
Cl..... 0.005 Fe..... 0.002
SO₄..... 0.02 Pb..... 0.002

Pack Size: 500g

Phthalic Acid Dibutyl Ester (See Di-N-Butyl Phthalate Page 110)

Phosphoric Anhydride (See Phosphoric Oxide Page 335)

Phosphoric Oxide (Phosphorus Pentoxide)

CAS 1314-56-3
P₂O₅ = 141.95

U.N Number.....1807
ADG Class.....8
Packing Group.....II



324 Phosphoric Oxide (Phosphorus Pentoxide)

UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

As.....0.01

H.M. (as Pb).....0.02

Fe.....0.005

Cl.....0.005

Pack Size: 250g, 5kg

Phosphorus Pentachloride

CAS 10026-13-8
Synonyms: Phosphorus (V) chloride
PCl₅ = 208.24

U.N Number.....1806
ADG Class.....8
Packing Group.....II



3097 Phosphorus Pentachloride For Synthesis

LABCHEM

Assay (argentometry).....>99%

Decomposes with water

Corrosive, irritant

Pack Size: 500g

Phosphorus Pentoxide (See Phosphoric Oxide Page 335)

Phosphorus, Red, Amorphous

CAS 7723-14-0
P = 30.97

U.N Number.....1338
ADG Class.....4.1
Packing Group.....III



1164 Phosphorus, Red, Amorphous

LABCHEM

Assay.....97% min.

Maximum limit of impurities(%)

Fe.....0.2

Pack Size: 500g, 10kg

Laboratory Reagents

UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

Phosphorus Trichloride

CAS 7719-12-2
PCl₃ = 137.33

U.N Number.....1809
ADG Class.....6.1
SUB.....8
Packing Group.....I



374 Phosphorus Trichloride UNILAB

Density.....about 1.57g/mL
Assay.....99.0% min.

Maximum limit of impurities(%)

Cu.....	0.0001	Fe.....	0.0001
Ni.....	0.0001	Pb.....	0.0001

Pack Size: 500mL

Phosphoryl Chloride

CAS 10025-87-3
POCl₃ = 153.33

U.N Number.....1810
ADG Class.....8
Packing Group.....II



1167 Phosphoryl Chloride UNILAB

Density.....about 1.67g/mL
Assay.....99% min.

Pack Size: 500mL

Phosphotungstic Acid (See Dodeca-Tungstophosphoric Acid Page 472)

Phthalic Acid

CAS 88-99-3
C₈H₆O₄ = 166.1

3150 Phthalic Acid UNIVAR

Appearance: White crystalline powder
Assay.....99.5% min.

Maximum limit of impurities(%)

Fe.....	0.001	Cl.....	0.001
H.M. (as Pb).....	0.001	SO ₄	0.005

Pack size: 250g

Phthalic Anhydride

CAS 85-44-9
C₈H₄O₃ = 148.12

375 Phthalic Anhydride UNILAB

Appearance: White crystalline powder, M.P. 129°C -132°C
Assay.....98.0% min.

Pack Size: 500g

Picric Acid

CAS 88-89-1
 $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{OH} = 229.11$

U.N Number.....1344
 ADG Class.....4.1
 Packing Group.....I



3099 Picric Acid

UNIVAR

All data related to water-free substance.

Assay.....98.0% min.
 M.P.119 - 122°C

Maximum limit of impurities(%)

Insoluble in toluene.....	0.1	Cl.....	0.005
Sulph. ash.....	0.1	SO ₄	0.5

Pack Size: 100g, 500g

Piperazine-N-N'-Bis(2-Ethanesulfonic Acid) (See Pipes Page 337)

Piperidine

CAS 110-89-4
 $\text{C}_5\text{H}_{11}\text{N} = 85.15$

U.N Number.....2401
 ADG Class.....8
 SUB.....3
 Packing Group.....I



3101 Piperidine

UNIVAR

Assay (GC).....99% min.

Maximum limit of impurities(%)

H.M. (as Pb).....	0.0001	Pyridine.....	0.3
Fe.....	0.0001	N.V.....	0.01
Picoline.....	0.1	H ₂ O.....	0.3

Pack Size: 100 mL, 500 mL

Pipes, Biological Buffer

CAS 5625-37-6
 $\text{C}_8\text{H}_{18}\text{N}_2\text{O}_6\text{S}_2 = 302.37$

3434 Pipes, Biological Buffer

UNIVAR

Description: White powder

Assay.....99.0% min.
 pKa.....6.6 – 7.0

Maximum limit of impurities(%)

Moisture.....1.0

Pack size: 1KG

Platinic Chloride (See Chloroplatinic Acid Page 141)

Platinum Wire

CAS 7440-06-4
Pt = 195.09

1170 Platinum Wire 0.375mm diameter LABCHEM

Assay.....99.9% min.

Maximum limit of impurities(%)

Au.	0.0009	Pd.	0.0009
Ag.	0.0009	Rh.	0.0009
Cu.	0.0009		

Pack Size: 25cm

Platinum (IV)Oxide Hydrate

CAS 52785-06-5
PtO₂xH₂O = 227.09

U.N Number.....1479
ADG Class.....5.1
Packing Group.....II



3102 Platinum (IV)Oxide Hydrate (Adam's Catalyst) LABCHEM

Assay of Pt.....80%

Pack Size: 1g

Polyethylene Glycol 200

CAS 25322-68-3
Synonym: PEG 200
H(OCH₂CH₂)_nOH = 190-200

1682 Polyethylene Glycol 200 LABCHEM

Hydroxyl number.....535 – 590
Density @ 20°C.....1.124 – 1.126

Pack Size: 500 mL

Polyethylene Glycol 4000

CAS 25322-68-3
HO(CH₂CH₂O)_nH (n approx. 80)

1683 Polyethylene Glycol 4000 TECHNICAL

Apparent MW= 3600-4400 .
Colour.....30 Hazen
pH (5%).....soln 5.0 - 7.0
Viscosity (@ 99°C).....130 – 180 cs

Maximum limit of impurities(%)

Ash.....0.05
Acidity (HAc).....0.05

Pack Size: 500g

Polyethylene Glycol 6000

CAS 25322-68-3
 HO (CH₂CH₂O)_nH (n approx.120).

5720 Polyethylene Glycol 6000 TECHNICAL

Apparent MW(5800 - 6800)
 Colour.....50 Hazen max.

Maximum limit of impurities(%)
 Acidity (HAc)..... 0.05

Pack Size: 500g, 5kg

Polysorbate 20 (See Ecoteric T20 Page 190)

Polysorbate 80 (See Ecoteric T80 Page 190)

Polyvinyl Pyrrolidone (PVP)

CAS 9003-39-8
 (C₆H₉NO)_n = approx. 40000

553 Polyvinyl Pyrrolidone (PVP) LABCHEM

Viscosity @ 25°C (5% aqu. Soln).....about 2.4 cP

Maximum limit of impurities(%)
 Residual monomer content..... 0.8
 H₂O..... 5

Sulphated ash..... 0.02

Pack Size: 100g

Polyvinyl Alcohol BF17W

CAS 9002-89-5

4877 Polyvinyl Alcohol BF17W TECHNICAL

Fully hydrolysed grade
 Viscosity.....25 – 30cps
 Hydrolysis (mole%).....95.0 – 97.0
 pH.....5 – 7
 Volatile matter.....5.0% max.
 Ash.....1.0% max.

Pack Size: 500g

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

Ponceau S

CAS 6226-79-5

$C_{22}H_{12}N_4Na_4O_{13}S_4 = 760.56$

3254 Ponceau S For Electrophoresis C.I. 27195 (For the staining of albumins and globulins) *LABCHEM*

Dye content (titanometric).....80% min.
Absorption (in water).....517 – 523 nm
Suitability for microscopy To pass test

Maximum limit of impurities(%)
L.O.D. @ 110°C......10

Pack Size: 25g

Popop, Scintillation Grade

CAS 1806-34-4

$C_{24}H_{16}N_2O_2 = 364.4$

720 Popop, Scintillation Grade *LABCHEM*

Description: Yellow to yellow-green solid
Assay.....97.0% min.
Melting point.....243 - 246°C

Pack size: 25g

PPO Scintillation Grade

CAS 92-71-7

Synonyms: 2,5-Diphenyloxazole

$C_{15}H_{11}NO = 221.26$

443 PPO Scintillation Grade *LABCHEM*

Assay.....99% min.
M.P.72 – 74°C

Pack Size: 25g

Potassium 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



2645 Potassium 1000ppm Single Element ICP Standard *UNIPURE*

A 1000 ppm Potassium standard, ready for use.
K in 0.5% Nitric acid.

Pack Size: 100mL

Potassium AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2603 Potassium AAS Standard

SPECTROSOL

A 1000 ppm Potassium standard, ready for use.
 Each ml contains 1.00+/- 0.005mg of K in 0.5% Nitric acid.

Pack Size: 500mL

Traceable to NIST

Potassium Acetate

CAS 127-08-2
 $\text{CH}_3\text{COOK} = 98.14$

3930 Potassium Acetate, Anhydrous

UNIVAR

Description: White to colourless crystalline powder
 Assay.....99.0% min.

Maximum limit of impurities(%)

Mg. 0.002
 Ca. 0.005
 Fe. 0.0005

H.M. (as Pb)..... 0.0005
 Cl. 0.003
 SO_4 0.001

Conforms to ACS

Pack size: 500g, 5Kg

352 Potassium Acetate

UNILAB

Assay(after drying).....99.0% min.

Maximum limit of impurities(%)

L.O.D. 1
 H.M (as Pb)..... 0.005

Cl. 0.005
 SO_4 0.005

Pack Size: 500g

Potassium Aluminium Sulphate (See Aluminium Potassium Sulphate) Page 40)

Potassium Alum (See Aluminium Potassium Sulphate Page 40)

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
 Discover more: www.ajaxfinechem.com/Labchem

Potassium Antimonate

CAS 1333-78-4
 $\text{KSbO}_3 \cdot 3\text{H}_2\text{O} = 262.91$

U.N Number.....1549
 ADG Class.....6.1
 Packing Group.....III



1171 Potassium Antimonate

UNIVAR

Description: white to cream coloured crystalline powder.
 Reagent for Na
 Suitable for the detection of Na
 Assay.....99.0% min

Pack Size: 100g

Potassium Antimony Tartrate (See Antimony Potassium (+) Tartrate Page 68)

Potassium Bicarbonate (See Potassium Hydrogen Carbonate Page 351)

Potassium Bichromate (See Potassium Dichromate Page 348)

Potassium Biphosphate Monobasic (See Potassium Dihydrogen Ortho-Phosphate Page 349)

Potassium Biphthalate (See Potassium Hydrogen Phthalate Page 352)

Potassium Bi-Tartrate (See Potassium Hydrogen Tartrate Page 354)

Potassium Bromate

CAS 7758-01-2
 $\text{KBrO}_3 = 167.00$

U.N Number.....1484
 ADG Class.....5.1
 Packing Group.....II



1802 Potassium Bromate, Certified Reference Standard

UNIPURE

Assay (Iodom.) (dried at 130°C).....99.95 – 100.05%
 pH (5% Soln).....5.0 – 9.0

Maximum limit of impurities(%)

Insoluble matter in H_2O 0.005
 Nitrogen Compounds (as N)..... 0.001
 Br..... 0.02
 SO_4 0.005
 Heavy Metals (as Pb)..... 0.0005
 Ca..... 0.005
 Cd..... 0.0005
 Co..... 0.0005

Cu..... 0.0005
 Fe..... 0.0005
 Mg..... 0.001
 Mn..... 0.0005
 Na..... 0.01
 Ni..... 0.0005
 Pb..... 0.0005
 Zn..... 0.0005

Pack Size: 100g

378

Potassium Bromate

UNIVAR

Description: white crystalline powder.

Assay.....99.8% min.
pH (5% soln. @ 25°C).....5.0 – 9.0

Maximum limit of impurities(%)

Insol.....	0.005		
Br	To pass test	H.M. (as Pb).....	0.0005
N cpds (as N).....	0.001	Na.....	0.01
SO ₄	0.005	Cl.....	0.05
Fe.....	0.002	L.O.D.....	0.1

Conforms to ACS

Pack Size: 500g

353

Potassium Bromate

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Bromide.....	0.05	H.M (as Pb).....	0.002
SO ₄	0.005	Fe.....	0.002

Pack Size: 500g

Potassium Bromide

CAS 7758-02-3

KBr = 119.00

379

Potassium Bromide

UNIVAR

Description: colourless crystals or crystalline powder.

Assay.....99.0% min.
pH (5% soln. @ 25°C).....5.8 – 8.8

Maximum limit of impurities(%)

Insol.....	0.005	Na.....	0.02
BrO ₃	0.001	Ca.....	0.002
Cl.....	0.2	Mg.....	0.001
I.....	0.001	IO ₃	0.001
N cpds (as N).....	0.005	Ca.....	0.002
SO ₄	0.005	Mg.....	0.001
Ba.....	0.002	HM (as Pb).....	0.0005
Fe.....	0.0005		

Conforms to ACS

Pack Size: 500g

354

Potassium Bromide

UNILAB

Description: colourless crystals or a white, crystalline powder; odourless.

Assay (after drying).....98.0 - 100.5%

Maximum limit of impurities(%)

Clarity and colour of soln.....	To pass test	SO ₄	0.01
L.O.D.....	1.0	H.M.(as Pb).....	0.001
Acidity or alkalinity.....	To pass test	Fe.....	0.002
BrO ₃	To pass test	Mg & alk-earth metals (as Ca).....	0.02
I.....	To pass test	Cl.....	0.6

Chemical and physical parameters conform to BP

Pack Size: 500g

Potassium Carbonate, Anhydrous

CAS 584-08-7
K₂CO₃ = 138.21

380 Potassium Carbonate, Anhydrous UNIVAR

Description: white powder.
Assay(after drying @ 285°C).....99.5 – 100.5%

Maximum limit of impurities(%)

Insol.....	0.01	NH ₄ OH ppt.....	0.01
L.O.D. (@ 285°C).....	1.0	Ca&Mg ppt.....	0.01
Cl.....	0.003	As.....	0.0001
N cpds (as N).....	0.001	Pb.....	0.001
PO ₄	0.001	Fe.....	0.0005
SiO ₂	0.005	H.M. (as Pb).....	0.0005
S cpds (as SO ₄).....	0.004	Na.....	0.02

Conforms to ACS

Pack Size: 500g

381 Potassium Carbonate Anhydrous UNILAB

Assay(after drying @ 285°C).....99.0% min.

Maximum limit of impurities(%)

L.O.D. (@ 285 °C).....	2.5	SO ₄	0.02
Cl.....	0.03	Fe.....	0.001

Pack Size: 500g, 5kg, 25kg

Potassium Chlorate

CAS 3811-04-9
KClO₃ = 122.55

U.N Number.....1485
ADG Class.....5.1
Packing Group.....II



382 Potassium Chlorate UNIVAR

Description: colourless crystals.
Assay.....99.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.002
BrO ₃	0.015	Mg.....	0.002
Cl.....	0.001	Fe.....	0.0003
N cpds (as N).....	0.001	H.M. (as Pb).....	0.0005
SO ₄	0.002	Na.....	0.01

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

1172 Potassium Chlorate UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	H.M. (as Pb).....	0.001
SO ₄	0.06		

Pack Size: 500g, 5kg

1390 Potassium Chlorate

TECHNICAL

Pack Size: 500g

Potassium Chloride

CAS 7447-40-7
KCl = 74.55

383 Potassium Chloride

UNIVAR

Description: colourless crystals or crystalline powder.
Assay (after ignition @ 500°C).....99.8% min.

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.001
Br.....	0.01	Mg.....	0.001
ClO ₃ & NO ₃ (as NO ₃).....	0.003	H.M.(as Pb).....	0.0005
I.....	0.002	Fe.....	0.0002
N cpds (as N).....	0.001	Cu.....	0.0002
PO ₄	0.0005	Pb.....	0.0002
SO ₄	0.001	Na.....	0.005
Ba.....	0.001	pH of 5% solution 25°C.....	5.4-8.6

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 25kg

384 Potassium Chloride

UNILAB

Description: colourless crystals or a white crystalline powder; odourless.
Assay(dried substance).....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity & colour of soln.	To pass test	Ba	To pass test
Acidity or alkalinity	To pass test	H.M.(as Pb).....	0.0010
L.O.D.@ 105 deg.C.....	1.0	Fe.....	0.0020
Al.....	0.0001	Mg & alk.-earth metals (as Ca).....	0.0200
I	To pass test	Na.....	0.1
SO ₄	0.0300	Br.....	0.1

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

943 Potassium Chloride

LABCHEM

Assay.....98.0% min.

Pack Size: 500g

1391 Potassium Chloride

TECHNICAL

Assay.....98.6% min.

Maximum limit of impurities(%)

Br.....	0.2	NaCl.....	1.0
SO ₄	0.01	Insol.....	0.05
Ca.....	0.02		

Pack Size: 500g

564 Potassium Chloride 0.001 M Solution UNIVOL

Molarity.....0.000995 - 0.001005mol/L

Pack Size: 20L

565 Potassium Chloride 0.01 M Solution UNIVOL

Molarity.....0.00995 - 0.01005mol/L

Pack Size: 20L

568 Potassium Chloride 0.1 M Solution UNIVOL

Molarity.....0.0995 - 0.1005mol/L

Pack Size: 20L

970 Potassium Chloride 3M Solution LABCHEM

Description: Clear colourless liquid
 Concentration:.....2.9 – 3.1 mol/L

Filling solution for potentiometer electrodes

Store between 15°C and 25°C

Pack size: 250mL

Potassium Chromate

CAS 7789-00-6
 $K_2CrO_4 = 194.19$

U.N Number.....3288
 ADG Class.....6.1
 Packing Group.....II



385 Potassium Chromate UNIVAR

Description: bright yellow crystalline powder.
 Assay.....99.5% min.
 pH (5% soln. @ 25°C).....8.6 – 9.8

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.005
Cl.....	0.001	Na.....	0.02
SO ₄	0.005		

Conforms to ACS

Pack Size: 500g

1173 Potassium Chromate UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	SO ₄	0.2
---------	------	-----------------------	-----

Pack Size: 500g

1174 Potassium Chromate TECHNICAL

Assay.....about 98%

Pack Size: 500g

Tri-Potassium Citrate

CAS 866-84-2
 $K_3C_6H_5O_7 \cdot H_2O = 324.42$

386

Tri-Potassium Citrate

UNIVAR

Description: colourless crystals or crystalline powder. Hygroscopic.

Assay.....99.0% min.

pH (5% soln.).....8.0 – 9.0

Maximum limit of impurities(%)

Insol..... 0.003

Cl..... 0.001

C₂O₄..... 0.01

SO₄..... 0.005

As..... 0.00004

Cu..... 0.00005

Fe..... 0.001

Na..... 0.1

NH₄..... 0.001

Pb..... 0.0005

Readily carbonisable subs. To pass test

Red. subs. To pass test

Pack Size: 500g

1175

Tri-Potassium Citrate

UNILAB

Description: transparent crystals or a white granular powder; odourless; hygroscopic.

Assay (C₆H₅K₃O₇).....99.0 - 101.0%

H₂O.....4.0 – 7.0%

Maximum limit of impurities(%)

Clarity and colour of soln. To pass test

Acidity or alkalinity..... 2.0

Cl..... 0.0050

SO₄..... 0.0150

H.M. (as Pb)..... 0.0010

C₂O₄..... 0.0300

Readily carbonisable subs. To pass test

Na..... 0.3

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Potassium Citrate (See tri-Potassium Citrate Page 347)

Potassium Cupri-Tartrate Solution (See Fehlings Soln No 1 Page 203)

Potassium Cyanide

CAS 151-50-8
 KCN = 65.12

U.N Number.....1680

ADG Class.....6.1

Packing Group.....I



2494

Potassium Cyanide

UNIVAR

Description: colourless crystals or crystalline powder.

Assay.....96.0% min.

Maximum limit of impurities(%)

Cl..... 0.5

PO₄..... 0.005

S..... 0.003

SCN..... 0.02

SO₄..... 0.04

Fe..... 0.03

Na..... 0.5

Pb..... 0.0002

Conforms to ACS

Have pure breathing oxygen available

Refer MSDS

Pack Size: 250g, 5kg

819 Potassium Cyanide UNILAB

Assay.....96.0% min.

Maximum limit of impurities(%)

SO ₄	0.05	Pb.....	0.002
H.M. (as Pb).....	0.002	Fe.....	0.03
Na.....	1.0	Cl.....	0.5

Have pure breathing oxygen available
Refer MSDS

Pack Size: 250g, 5kg

Potassium Dichromate

CAS 7778-50-9
K₂Cr₂O₇ = 294.19

U.N Number.....3288
ADG Class.....6.1
Packing Group.....I



1803 Potassium Dichromate, Certified Reference Standard UNIPURE

Assay (Iodom.) (dried at 130°C) 99.95 – 100.05%
pH (5% Soln).....3.7 – 3.9

Maximum limit of impurities(%)

Insoluble matter in H ₂ O.....	0.003	Cu.....	0.001
Suitability to COD determination (according to UNE 77-004-89)	To pass test	Fe.....	0.001
Cl.....	0.001	Mg.....	0.0005
SO ₄	0.01	Mn.....	0.0005
Ca.....	0.002	Na.....	0.02
Cd.....	0.0005	Ni.....	0.0005
Co.....	0.0005	Pb.....	0.001
		Zn.....	0.0005

Pack Size: 100g

388 Potassium Dichromate UNIVAR

Description: orange-red crystals or crystalline powder.
Assay.....99.8% min.

Maximum limit of impurities(%)

Insol.....	0.005	Na.....	0.01
L.O.D. (105°C).....	0.05	Cu.....	0.001
Cl.....	0.001	Fe.....	0.001
SO ₄	0.005	Pb.....	0.005
Ca.....	0.002		

Conforms to ACS

Pack Size: 500g, 5kg

389 Potassium Dichromate UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	Na.....	0.5
SO ₄	0.02	Ca.....	0.005

Pack Size: 500g, 5kg

390 Potassium Dichromate Technical

Pack Size: 500g, 3kg

1359 Potassium Dichromate 1/60 MOL Concentrate, Ampoule OP

Description: plastic ampoule containing clear yellow-reddish liquid
 1/60 mole (4.903g $K_2Cr_2O_7$) to prepare 1L of 0.1N solution
 Molarity.....0.0998 – 1.002

Pack size: Ampoule

Potassium Dihydrogen Orthophosphate

CAS 7778-77-0
 $KH_2PO_4 = 136.09$

391 Potassium Dihydrogen Orthophosphate UNIVAR

Description: white crystalline powder.
 Assay.....99.0 - 101.0%
 pH (5% soln. @ 25°C).....4.2 – 4.5

Maximum limit of impurities(%)

Insol.....	0.01	Mg.....	0.002
L.O.D. (@ 130 DEGC).....	0.2	Ca.....	0.01
Cl.....	0.001	Na.....	0.01
F.....	0.001	Cu.....	0.0005
H.M.(as Pb).....	0.001	Pb.....	0.0005
N cpds (as N).....	0.005	As.....	0.0002
SO ₄	0.005	Reducing substances	To pass test
Fe.....	0.002	Appearance of solution	To pass test

Chemical and physical parameters conform to FCC and EP

Pack Size: 500g, 2kg, 5kg, 25kg

392 Potassium Dihydrogen Orthophosphate UNILAB

pH (5% soln.@ 25°C).....about 4.4
 Assay(after drying).....99.0% min.

Maximum limit of impurities(%)

L.O.D. (over H ₂ SO ₄).....	0.5	SO ₄	0.05
Cl.....	0.02		

Pack Size: 500g, 5kg, 25kg

Potassium Ferricyanide

CAS 13746-66-2
 $K_3Fe(CN)_6 = 329.25$

393 Potassium Ferricyanide UNIVAR

Description: red crystals.
 Assay.....99.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Co.....	0.005
Cl.....	0.01	Cu.....	0.001
SO ₄	0.01	Na.....	0.04
Ferrocyanide.....	0.05	Ni.....	0.001
Ca.....	0.0005	Pb.....	0.002
Cd.....	0.002	Zn.....	0.002

Conforms to ACS

Pack Size: 100g, 500g, 20kg

394 Potassium Ferricyanide UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Ferrocyanide.....	0.1		
Cl.....	0.1	SO ₄	0.05

Pack Size: 500g, 5kg

1176 Potassium Ferricyanide TECHNICAL

Pack Size: 500g

Potassium Ferrocyanide

CAS 13943-58-3
K₄Fe(CN)₆·3H₂O = 422.39

395 Potassium Ferrocyanide UNIVAR

Description: yellow crystals or crystalline powder.
Assay.....98.5 – 102.0%

Maximum limit of impurities(%)

Insol.....	0.005		
Cl.....	0.01	Cd.....	0.0005
SO ₄	0.005	Cu.....	0.002
Pb.....	0.002	Na.....	0.02

Conforms to ACS

Pack Size: 500g, 5kg

1177 Potassium Ferrocyanide UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	SO ₄	0.05
---------	------	-----------------------	------

Pack Size: 500g, 5Kg

Potassium Fluoride

CAS 7789-23-3
KF = 58.10

U.N Number.....1812
ADG Class.....6.1
Packing Group.....III



1079 Potassium Fluoride UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

L.O.I (500°C,15min).....	0.5	Cl.....	0.01
Fe.....	0.005	SO ₄	0.05

Pack Size: 500g, 5kg, 10kg

Potassium Hexacyanoferrate (See Potassium Ferricyanide Page 349)

Potassium Hexacyanoferrate (II)-3 Hydrate (See Potassium Ferrocyanide Page 350)

Potassium Hydrogen Carbonate

CAS 298-14-6
KHCO₃ = 100.12

397 Potassium Hydrogen Carbonate UNIVAR

Description: white powder.

Assay.....99.7 – 101.0%

Maximum limit of impurities(%)

Insol.....	0.01	Fe.....	0.0005
Cl.....	0.001	H.M. (as Pb).....	0.0005
PO ₄	0.0005	Na.....	0.03
S cpds (as SO ₄).....	0.003	NH ₄	0.0005
Ca.....	0.002	As.....	0.0003
Mg.....	0.001		

Pack Size: 500g, 5kg

1178 Potassium Hydrogen Carbonate UNILAB

Assay.....99.0% min.

pH (1% soln.).....9.6 max.

Maximum limit of impurities(%)

Cl.....	0.01	R ₂ O ₃ ppt.....	0.05
Ca.....	0.05	H.M. (as Pb).....	0.001
Mg.....	0.05		

Pack Size: 500g

Potassium Hydrogen Diiodate, Certified Reference Standard

CAS 13455-24-8
KH(IO₃)₂ = 389.92

U.N Number.....1479

ADG Class.....5.1

Packing Group.....II



1804 Potassium Hydrogen Diiodate, Certified Reference Standard UNIPURE

Assay (Acidim.) (dried at 105°C).....99.95 – 100.05%

Assay (Iodom.) (dried at 105°C).....99.9 – 100.1%

Maximum limit of impurities(%)

Insoluble matter in H ₂ O.....	0.005	Cr.....	0.0005
Nitrogen cpds (as N).....	0.002	Cu.....	0.0005
BrO ₃ , Br, ClO ₃ , Cl (as Cl).....	0.02	Fe.....	0.001
SO ₄	0.005	Mg.....	0.0005
I.....	0.001	Mn.....	0.0005
H.M. (as Pb).....	0.001	Na.....	0.005
Ca.....	0.002	Ni.....	0.0005
Cd.....	0.0005	Pb.....	0.0005
Co.....	0.0005	Zn.....	0.0005

Pack Size: 100g

Di-Potassium Hydrogen Orthophosphate

CAS 7758-11-4
 $K_2HPO_4 = 174.18$

2221 Di-Potassium Hydrogen Orthophosphate

UNIVAR

Description: white powder.

Assay(after drying).....99.0 - 101.0%
 pH (5% soln. @ 25°C).....8.5 – 9.6

Maximum limit of impurities(%)

Insol.....	0.01	Cu.....	0.0005
L.O.D.....	1.0	Pb.....	0.0005
Cl.....	0.003	Mg.....	0.0005
N cpds (as N).....	0.001	H.M.(as Pb).....	0.0005
F.....	0.001	Na.....	0.15
SO ₄	0.005	As.....	0.0003
Ca.....	0.005	Identification	To pass test
Fe.....	0.0005		

Pack Size: 500g, 5kg, 25kg

398 DI-Potassium Hydrogen Orthophosphate

UNILAB

pH(5% soln.).....about 8.8
 Assay(after drying).....99.0% min.

Maximum limit of impurities(%)

L.O.D.....	2.5	H.M.(as Pb).....	0.005
Cl.....	0.01	Fe.....	0.005
SO ₄	0.05		

Pack Size: 500g, 5kg, 25kg

Potassium Hydrogen Phthalate

CAS 877-24-7
 $C_8H_5KO_4 = 204.23$

1805 Potassium Hydrogen Phthalate, Certified Reference Standard

UNIPURE

Assay (Acidim) (dried at 105°C).....99.95 – 100.05%
 Identity IR to pass test
 pH sol. 0.05mol/L to 25±0.2°C.....4.00 – 4.02

Maximum limit of impurities(%)

Insoluble matter in H ₂ O.....	0.003	Cr.....	0.001
Chloride cpds (as Cl).....	0.003	Cu.....	0.0005
Nitrogen cpds (as N).....	0.001	Fe.....	0.0005
Sulphur cpds (as S).....	0.002	Mg.....	0.001
Cl.....	0.002	Mn.....	0.0005
H.M. (as Pb).....	0.0005	Na.....	0.005
Ca.....	0.001	Ni.....	0.0005
Cd.....	0.0005	Pb.....	0.0005
Co.....	0.0005	Zn.....	0.0005

Pack Size: 100g

399 Potassium Hydrogen Phthalate UNIVAR

Description: colourless crystals or crystalline powder.
 pH(0.05M @25°C).....4.00 - 4.02
 Assay(after drying @ 120°C).....99.8 – 100.2%

Maximum limit of impurities(%)		
Insol.....	0.005	Fe..... 0.0005
Cl.....	0.003	H.M. (as Pb)..... 0.0005
S.....	0.002	Na..... 0.005

Pack Size: 100g, 500g, 10kg

1181 Potassium Hydrogen Phthalate UNILAB

pH(0.05M @25°C).....about 4.0
 Assay.....99.5% min.

Maximum limit of impurities(%)		
Cl.....	0.01	SO ₄ 0.06

Pack Size: 500g, 5kg

Potassium Hydrogen Sulphate

CAS 7646-93-7
 KHSO₄ = 136.17

U.N Number.....2509
 ADG Class.....8
 Packing Group.....II



400 Potassium Hydrogen Sulphate UNIVAR

Description: colourless crystals.
 Assay.....99.0 - 102.0%

Maximum limit of impurities(%)		
Insol.....	0.01	Fe..... 0.002
Cl.....	0.002	H.M. (as Pb)..... 0.001
PO ₄	0.001	Na..... 0.01
As.....	0.0005	H ₂ O..... 2.5
Ca.....	0.005	

Pack Size: 500g, 5kg

401 Potassium Hydrogen Sulphate UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)		
Cl.....	0.02	H.M.(as Pb), Fe..... 0.005

Pack Size: 500g

Analytical Reagents



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Potassium Hydrogen Tartrate

CAS 868-14-4
KHC₄H₄O₆ = 188.18

402 Potassium Hydrogen Tartrate

UNIVAR

Description: white crystalline powder.

Assay (after drying @ 110°C).....99.5% min.
pH (0.5% soln. @ 25°C).....3.5 – 3.8

Maximum limit of impurities(%)

Insoluble matter in H ₂ O.....	0.01	Pb.....	0.001
L.O.D. (@110°C).....	0.05	Ni.....	0.001
Cl.....	0.001	Ca.....	0.005
SO ₄	0.01	Cu.....	0.001
As.....	0.0001	HM (as Pb).....	0.001
Fe.....	0.001	Ammonium (NH ₄).....	0.005

Pack Size: 500g

403 Potassium Hydrogen Tartrate

UNILAB

Description: white crystalline powder.

Assay (after drying @ 110°C).....99.0% min.
pH (0.5% soln. @ 25°C).....3.5 – 4.0

Maximum limit of impurities(%)

L.O.D. (@110°C).....	1.0	SO ₄	0.02
Cl.....	0.01	Pb.....	0.005

Pack Size: 500g

Potassium Hydroxide Pellets

CAS 1310-58-3
KOH = 56.11

U.N Number.....1813
ADG Class.....8
Packing Group.....II



405 Potassium Hydroxide Pellets

UNIVAR

Description: white or grey, deliquescent pellets.

Assay.....85.0% min.

Maximum limit of impurities(%)

K ₂ CO ₃	2.0	Pb.....	0.0005
Cl.....	0.01	Ni.....	0.0005
N cpds (as N).....	0.001	PO ₄	0.0005
Na.....	0.05	H.M. (as Ag).....	0.001
SO ₄	0.003	Al.....	0.001
NH ₄ OH ppt.....	0.02	Ca.....	0.001
Cu.....	0.0005	Mg.....	0.002
Fe.....	0.0005		

Conforms to ACS

Pack Size: 500g, 1kg, 2.5kg, 5kg, 20kg

406 Potassium Hydroxide, Pellets UNILAB

Description: white sticks, pellets or fused masses; dry, hard, brittle and showing a crystalline fracture; very deliquescent. Strongly alkaline and corrosive. Rapidly absorbs carbon dioxide.

Assay.....85.0 - 100.5%

Maximum limit of impurities(%)

Appearance of solution	To pass test	Sulphate.....	0.005
K ₂ CO ₃	2.0	H.M.(as Pb).....	0.001
Cl.....	0.005	Fe.....	0.001
Phosphate.....	0.002	Na.....	1.0

Chemical and physical parameters conform to BP

Pack Size: 500g, 2.5kg, 20kg

1072 Potassium Hydroxide, flake UNILAB

Description: white deliquescent flakes.

Assay.....90.0% min.

Maximum limit of impurities(%)

K ₂ CO ₃	2.5	Fe.....	0.001
Cl.....	0.05	H.M. (as Pb).....	0.005
SO ₄	0.01		

Pack Size: 25kg

1183 Potassium Hydroxide 90% (Caustic Potash) Technical

Pack Size: 500g

Potassium Hydroxide 0.100M In Methanol

CAS 1310-58-3

U.N Number.....1992
 ADG Class.....3
 SUB.....6.1
 Packing Group.....II



705 Potassium Hydroxide 0.100M In Methanol UNIVOL

Non aqueous titrant for volumetric analysis of weak acids etc.

Molarity.....0.0995 - 0.1005mol/L

Pack Size: 1L, 6 x1L, 2.5L, 20L

Potassium Hydroxide 0.1 MOL Concentrate, Ampoule

CAS 1310-58-3
 KOH = 56.11

U.N Number.....1814
 ADG Class.....8
 Packing Group.....II



1378 Potassium Hydroxide 0.1 MOL Concentrate, Ampoule OP

Description: plastic ampoule containing clear colourless liquid

0.1 mole (5.611g KOH) to prepare 1L of 0.1N solution

Molarity..... 1.000 ± 0.002

Pack size: Ampoule

1365 Potassium Hydroxide 0.5 MOL Concentrate, Ampoule OP

Description: plastic ampoule containing clear colourless liquid
 0.5 mole (28.054g KOH) to prepare 1L of 0.5N solution
 Molarity.....1.000 ± 0.002

Pack size: Ampoule

1382 Potassium Hydroxide 1.0 MOL Concentrate, Ampoule OP

Description: plastic ampoule containing clear colourless liquid
 1 mole (56.109g KOH) to prepare 1L of 1N solution
 Molarity.....1.000 ± 0.002

Pack size: Ampoule

Potassium Iodate

CAS 7758-05-6
 KIO₃ = 214.00

U.N Number.....1479
 ADG Class.....5.1
 Packing Group.....II



1806 Potassium Iodate, Certified Reference Standard UNIPURE

Assay (Iodom.) (dried at 130°C).....99.95 – 100.05%
 pH (5% Soln).....5.0 – 8.0

Maximum limit of impurities(%)

Insoluble matter in H ₂ O.....	0.005	Co.....	0.0005
Nitrogen Compounds (as N).....	0.002	Cu.....	0.0005
Bromide and Chloride (as Cl).....	0.01	Fe.....	0.001
SO ₄	0.005	Mg.....	0.001
I.....	0.001	Mn.....	0.0005
H.M. (as Pb).....	0.0005	Na.....	0.005
As.....	0.0001	Ni.....	0.0005
Ca.....	0.001	Pb.....	0.0005
Cd.....	0.0005	Zn.....	0.0005

Pack Size: 100g

407 Potassium Iodate UNIVAR

Description: white crystalline powder.

Assay (after drying at 130°C).....99.4 - 100.4%
 pH (5% soln. @ 25°C).....5.0 – 8.0

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.001
Cl & Br (as Cl).....	0.01	H.M. (as Pb).....	0.0005
I.....	0.001	Na.....	0.005
N cpds (as N).....	0.005	Chlorate	To pass test
SO ₄	0.005	LOD.....	0.5

Conforms to ACS

Pack Size: 500g, 5kg

408 Potassium Iodate UNILAB

Assay.....99.5% min.

Maximum limit of impurities(%)

Cl.....	0.1		
I.....	0.05	SO ₄	0.05

Pack Size: 100g, 500g

Potassium Iodide

CAS 7681-11-0
KI = 166.00

409 Potassium Iodide UNIVAR

Description: colourless crystals or a white crystalline powder; odourless.
Assay (after drying @ 150°C).....99.0% min
pH (5% soln. @ 25°C).....6.0 – 9.2

Maximum limit of impurities(%)

Insol.....	0.005	SO ₄	0.005
L.O.D. (@150°C).....	0.2	Ca.....	0.005
Cl & Br (as Cl).....	0.01	Mg.....	0.005
IO ₃	0.0003	H.M. (as Pb).....	0.0005
N cpds (as N).....	0.001	Cu.....	0.0002
PO ₄	0.001	Fe.....	0.0003
Ba.....	0.002	Pb.....	0.0002
As.....	0.00002	Na.....	0.005

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

410 Potassium Iodide UNILAB

Description: colourless crystals or a white powder; odourless.
Assay (after drying).....99.0 - 100.5%

Maximum limit of impurities(%)

Colour and clarity of soln.	To pass test		
Alkalinity	To pass test	SO ₄	0.0150
L.O.D.....	1.0	Thiosulphate & Ba	To pass test
H.M.(as Pb).....	0.0010	As.....	0.0003
Fe.....	0.0020	NO ₃	To pass test
IO ₃	To pass test	NO ₂ & NH ₄	To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg, 50kg

2396 Potassium Iodide LABCHEM

Assay.....98% min.

Pack Size: 500g, 5kg

Potassium Metabisulphite

CAS 16731-55-8
 $K_2S_2O_5 = 222.33$

1184 Potassium Metabisulphite UNIVAR

Description: colourless crystals, with a strong odour of SO_2 .
 Assay.....96.0% min.

Maximum limit of impurities(%)

Insols.....	0.005		
Cl.....	0.005	Cu.....	0.001
Ni.....	0.001	Fe.....	0.001
Pb.....	0.001	PO_4	0.0002
As.....	0.0001	Thiosulphate(S_2O_3).....	0.05

Pack Size: 500g, 5kg

411 Potassium Metabisulphite UNILAB

Assay(as SO_2).....51.8 - 57.6%

Maximum limit of impurities(%)

Cl.....	0.1		
H.M.....	0.005	Fe (as Fe).....	0.005

Pack Size: 5kg, 25kg

Potassium Nitrate

CAS 7757-79-1
 $KNO_3=101.1$

U.N Number.....1486
 ADG Class.....5.1
 Packing Group.....III



412 Potassium Nitrate UNIVAR

Description: white crystalline powder

Assay.....99.0% min.
 pH (5% soln. @ 25°C).....4.5 - 8.5

Maximum limit of impurities(%)

Insol.....	0.005		
Cl.....	0.002	Mg.....	0.002
IO_3	0.0005	R_2O_3 ppt.....	0.01
NO_2	0.001	Fe.....	0.0003
PO_4	0.0005	H.M. (as Pb).....	0.0005
SO_4	0.003	Na.....	0.005
Ca.....	0.005	IO_3 & NO_2	To pass test

Conforms to ACS

Pack Size: 500g, 1kg, 2kg, 5kg, 25kg

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

791 Potassium Nitrate UNILAB

Description: colourless crystals, or a white crystalline powder.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Appearance of solution	To pass test	Cl.....	0.002
Reducible substances	To pass test	SO ₄	0.015
H.M. (as Pb).....	0.001	Ca.....	0.005
Na.....	0.1	Fe.....	0.001
NH ₄ cpds	To pass test	L.O.D.....	0.5

Pack Size: 500g, 5kg, 25kg

949 Potassium Nitrate LABCHEM

Assay (Dry basis).....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	Fe.....	0.05
SO ₄	0.01		

Pack Size: 500g

Potassium Nitrite

CAS 7758-09-0
KNO₂ = 85.10

U.N Number.....1488
ADG Class.....5.1
Packing Group.....II



1073 Potassium Nitrite UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

Cl.....	0.01	As.....	0.0001
SO ₄	0.02	Fe.....	0.001
H.M.(as Pb).....	0.002	Pb.....	0.0005

Chemical and physical parameters conform to FCC

Pack Size: 500g, 25kg

Tri-Potassium Orthophosphate

CAS 7778-53-2
K₃PO₄·H₂O = 230.29

1392 Tri-Potassium Orthophosphate LABCHEM

Assay.....95% min.

Maximum limit of impurities(%)

L.O.I. (@800°C).....	.13	Cl.....	0.005
Fe.....	0.002	SO ₄	0.02
H.M. (as Pb).....	0.002		

Pack Size: 500g

Potassium Oxalate

CAS 583-52-8
(COOK)₂.H₂O = 184.23

413 Potassium Oxalate UNIVAR

Description: colourless crystals or crystalline powder.
Assay.....98.5 - 101.0%

Maximum limit of impurities(%)

Insol.....	0.01		
Neutrality	To pass test	H.M. (as Pb).....	0.002
Cl.....	0.002	Na.....	0.02
SO ₄	0.01	NH ₄	0.002
Fe.....	0.001	Subs. darkened by hot H ₂ SO ₄	To pass test

Conforms to ACS

Pack Size: 500g, 5kg

1186 Potassium Oxalate UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.01		
SO ₄	0.04	Fe.....	0.005

Pack Size: 500g

Potassium Perchlorate

CAS 7778-74-7
KClO₄ = 138.55

U.N Number.....1489
ADG Class.....5.1
Packing Group.....II



1074 Potassium Perchlorate UNIVAR

Assay.....99.0 - 100.5%
pH (5% soln.).....6 - 8

Maximum limit of impurities(%)

Insols.....	0.005		
Cl.....	0.003	Ca.....	0.005
SO ₄	0.001	Fe.....	0.0005
H.M.(as Pb).....	0.0005	Na.....	0.02

Pack Size: 500G

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.
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Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Potassium Periodate

CAS 7790-21-8
KIO₄ = 230.0

U.N Number.....1479
ADG Class.....5.1
Packing Group.....I



630

Potassium Periodate

UNIVAR

Description: Colourless crystalline powder
Assay.....99.5% min.

Maximum limit of impurities(%)

Cl..... 0.01
SO₄..... 0.005

Mn..... 0.0001

Pack size: 100g, 500g

Potassium Permanganate

CAS 7722-64-7
KMnO₄ = 158.03

U.N Number.....1490
ADG Class.....5.1
Packing Group.....II



414

Potassium Permanganate

UNIVAR

Description: dark purple crystals with a metallic lustre; odourless. Decomposes on contact with certain organic substances.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol..... 0.2
Cl..... 0.005
ClO₃ (as Cl)..... 0.005
N cpds (as N)..... 0.005
SO₄..... 0.02

As..... 0.0003
Cu..... 0.002
Fe..... 0.002
Pb..... 0.003

Conforms to ACS

Pack Size: 500g, 5kg

415

Potassium Permanganate

UNILAB

Description: dark purple or brownish-black, granular powder or dark purple or almost black crystals having a metallic lustre. It decomposes on contact with certain organic substances.

Assay.....99.0 - 100.5%

Maximum limit of impurities(%)

Colour of soln. To pass test
Cl..... 0.0200

SO₄..... 0.0500
Water-insoluble matter..... 1.0

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

945

Potassium Permanganate

LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.1
SO₄..... 0.1

Pack Size: 500g

634 **Potassium Permanganate, 0.02M Solution** UNIVOL

Molarity.....0.0199 - 0.0201mol/L

Pack Size: 500mL

1361 **Potassium Permanganate 0.02 MOL Concentrate, Ampoule** OP

Description: plastic ampoule containing clear dark violet liquid

0.02 mole (3.161g KMnO₄) to prepare 1L of 0.1N solution

Molarity.....0.0998 - 0.1002

Pack size: Ampoule

Potassium Persulphate

CAS 7727-21-1
K₂S₂O₈ = 270.32

U.N Number.....1492

ADG Class.....5.1

Packing Group.....III



2504 **Potassium Persulphate** UNIVAR

Description: white powder.

Assay.....99% min.

Maximum limit of impurities(%)

Insols.....	0.005	Cd.....	0.0005
Cl.....	0.001	Cu.....	0.0005
Fe.....	0.001	Zn.....	0.003
H.M. (as Pb).....	0.001	Pb.....	0.0005
Mn.....	0.0001	N cpds. (as N).....	0.02

Pack Size: 500g

1188 **Potassium Persulphate** UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

Cl.....0.04

Pack Size: 500g

Potassium Phosphate Dibasic (See di-Potassium Hydrogen Ortho-Phosphate Page 352)

Potassium Phosphate Monobasic (See Potassium Dihydrogen Ortho-Phosphate Page 349)

Potassium Phosphate Tribasic (See tri-Potassium Orthophosphate Page 359)

Potassium Polysulphide

CAS 37199-66-9

U.N Number.....1382

ADG Class.....4.2

Packing Group.....II



2307 **Potassium Polysulphide** LABCHEM

Assay.....40% min

Pack Size: 500g,5kg

Potassium Pyrosulphate

CAS 7790-62-7

355 Potassium Pyrosulphate, powder UNIVAR

Description: white powder.

Assay.....97.5% min.

Maximum limit of impurities(%)

Insolubles.....	0.01	Fe.....	0.0005
Total (N).....	0.002	H.M. (as Pb).....	0.001
Cl.....	0.0005	Mg.....	0.0005
PO ₄	0.001	Na.....	0.01
Ca.....	0.003	Al.....	0.001

Pack Size: 500g, 5kg

1393 Tetra-Potassium Pyrophosphate LABCHEM

Assay.....95% min.

Maximum limit of impurities(%)

H.M (as Pb).....	0.001	SO ₄	0.002
Fe.....	0.002	Cl.....	0.005

Pack Size: 500g

Potassium Pyrosulphite (See Potassium Metabisulphite Page 358)

Potassium Sodium Tartrate

CAS 6381-59-5

KNaC₄H₄O₆·4H₂O = 282.22

416 Potassium Sodium Tartrate UNIVAR

Description: colourless crystals.

Assay.....99.0 - 102.0%

pH (5% soln. @ 25°C).....6.0 – 8.5

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.004
Cl.....	0.001	Fe.....	0.0005
PO ₄	0.002	H.M. (as Pb).....	0.0005
NH ₄	0.002	Cu.....	0.0002
Mg.....	0.002	Pb.....	0.0002
SO ₄	0.005		

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 20kg

1157 Potassium Sodium Tartrate UNILAB

Assay.....98.0 104.0%

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.008
SO ₄	0.05	H.M. (as Pb).....	0.001

Pack Size: 500g, 2kg, 5kg, 25kg

Potassium Sorbate

CAS 24634-61-5
 $C_6H_7KO_2 = 150.2$

2405 Potassium Sorbate

UNIVAR

Description: White rod-shaped granules

Solubility: Soluble in water and alcohol. Insoluble in acetone and alcohol.

Assay (Titrimetry).....99.0% min.

Maximum limit of impurities(%)

Fe..... 0.0005

Cl..... 0.0005

Ca..... 0.0005

Pack size: 500G

Potassium Sulphate

CAS 7778-80-5
 $K_2SO_4 = 174.26$

417 Potassium Sulphate

UNIVAR

Description: white powder.

Assay.....99.0% min.

pH (5%soln, @25 Deg C).....5.5 – 8.5

Maximum limit of impurities(%)

Insol..... 0.01

Cl..... 0.001

N cpds (as N)..... 0.0005

Na..... 0.02

Fe..... 0.0005

H.M. (as Pb)..... 0.0005

Mg..... 0.005

Ca..... 0.01

Conforms to ACS

Pack Size: 500g, 1kg, 3kg, 5kg, 25kg

418 Potassium Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

N cpds (as N)..... 0.002

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 3kg, 5kg, 25kg

Potassium Sulphocyanide (See Potassium Thiocyanate Page 366)

419 Potassium (+)-Tartrate

UNILAB

Assay.....99 – 102%

Maximum limit of impurities(%)

Cl.	0.05	NH ₄	0.001
SO ₄	0.1	Cu.	0.001
Pb.	0.001	Zn.	0.001
As.	0.0003	Oxalic acid.	0.05
Ca.	0.01	H.M. (as Pb).	0.002
Fe.	0.002		

Pack Size: 500g

Potassium Tartrate Acid (See Potassium Hydrogen Tartrate Page 354)

Di Potassium Tartrate (See Potassium (+)-Tartrate Page 365)

Potassium Tellurite

CAS 7790-58-1
K₂TeO₃.xH₂O = 253.79.xH₂O

U.N Number.....3284
ADG Class.....6.1
Packing Group.....II



3106 Potassium Tellurite

LABCHEM

Pack Size: 10kg

Potassium Tetraiodomercurate (II) (See Nessler's Reagent Page 302)

Potassium Tetraoxalate Dihydrate

CAS 6100-20-5
C₄H₃KO₈.2H₂O = 254.20

1189 Potassium Tetraoxalate Dihydrate

UNIVAR

Assay.....99.5% min. (RT)

Maximum limit of impurities(%)

Cl.	0.001	Mg.	0.0005
SO ₄	0.01	Mn.	0.0005
Ca.	0.001	Na.	0.005
Cd.	0.0005	NH ₄	0.005
Co.	0.0005	Ni.	0.0005
Cr.	0.0005	Pb.	0.0005
Cu.	0.0005	Zn.	0.0005
Fe.	0.0005		

Pack Size: 100g

Potassium Thiocyanate

CAS 333-20-0
KSCN = 97.18

421 Potassium Thiocyanate

UNIVAR

Description: colourless or white deliquescent crystals.
Assay.....98.0% min.
pH (5% soln. @ 25°C).....5.3 – 8.7

Maximum limit of impurities(%)

Insol. (in H₂O). 0.005
Cl. 0.005
SO₄. 0.005
Fe. 0.0002

Na. 0.1
NH₄. 0.1
H.M. (as Pb). 0.0005
Iodine consuming subs. to pass test

Pack Size: 500g, 5kg, 25kg

Potassium Thiocyanate

CAS 333-20-0

422 Potassium Thiocyanate

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl. 0.01
SO₄. 0.025

Fe. 0.0005

Pack Size: 500g, 5kg, 25kg

Potassium Titanium Oxalate Dihydrate

CAS 14402-67-6
K₂TiO(C₂O₄)₂·2H₂O = 354.17

106 Potassium Titanium Oxalate Dihydrate

UNIVAR

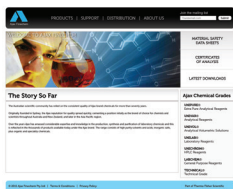
Assay.....98.5% min.
Reaction (pH).....2.8 – 3.4

Maximum limit of impurities(%)

Insoluble matter. 0.005
Cl. 0.001
N. 0.005
SO₄. 0.02

Cu. 0.005
Fe. 0.002
Pb. 0.005

Pack Size: 100g



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L-Proline

CAS 147-85-3
 $C_5H_9O_2 = 115.1$

3107

L-Proline

UNIVAR

Description: White crystalline powder

Assay.....99.0% min.
 Specific rotation.....-84.0 to -86.0°

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.002
 As..... 0.0003
 L.O.D..... 0.3

Pb..... 0.001
 R.O.I..... 0.1

Pack size: 25g

Propanal (See Propionaldehyde Page 370)

Propan-1-ol (n-Propanol)

CAS 57-55-6
 $CH_3CH(OH)CH_2OH = 76.10$

427

Propan-1-ol (n-Propanol)

UNILAB

Assay.....99.5% min.
 Distillation Range.....185 – 189°
 SG @ 25°C.....1.035 – 1.037 g/mL

Maximum limit of impurities(%)

Sulph. ash..... 0.007
 Acidity To pass USP
 H_2O 0.2
 Chloride..... 0.007

SO_4 0.006
 H.M (as Pb)..... 0.0005
 As..... 0.0003

Organic volatile impurities.To pass USP

Chemical and physical parameters conform to USP

Pack Size: 2.5L, 20L, 210kg, 215kg

Propan-1-ol (n-Propanol)

CAS 71-23-8
 $C_2H_5CH_2OH = 60.10$

U.N Number.....1274
 ADG Class.....3
 Packing Group.....II



424

Propan-1-ol (n-Propanol)

UNILAB

For quantitative and qualitative analysis.

B.R.(95% min.).....96 - 98 °C
 Density.....0.803 – 0.806 g/mL

Maximum limit of impurities(%)

Non-vol..... 0.01

Pack Size: 500mL, 2.5L, 20L

Propan-2-ol (Isopropanol)

CAS 67-63-0
(CH₃)₂CHOH = 60.10

U.N Number.....1219
ADG Class.....3
Packing Group.....II



2323 Propan-2-ol (Isopropanol)

UNICHROM

Description: colourless liquid.

R.I.=1.378
Viscosity @ 20°C.....2.49cP
Assay(GLC).....>99.7%

Maximum limit of impurities(%)

Non-vol..... 0.001
Acidity..... 0.01 mmol H
H₂O (by K.F.)..... 0.2

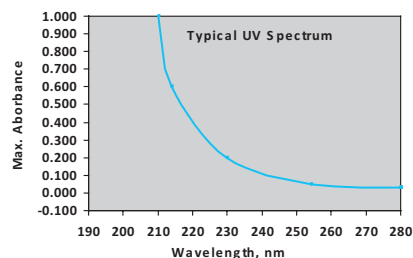
U.V. Absorbance:

λ(nm)	210	214	254	280
Max. abs.	1.00	0.60	0.07	0.03

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L



593 Propan-2-ol (Isopropanol)

SPECTROSOL

Description: colourless liquid.

For U.V. spectroscopy.

Colour (APHA).....= 10 max.
Assay.....99.5% min.

Maximum limit of impurities(%)

R.A.E..... 0.001
Aldehydes&ketones(as(CH₃)₂CO)..... 0.005
Water..... 0.2

Conforms to ACS

Pack Size: 500mL, 2.5L

Titratable acid or bases..... 0.01 mmol H or OH
Sol.in water.....To pass test

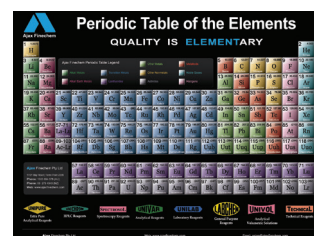
U.V. Absorbance:

λ(nm)	210	220	230	245	260	275	300	300-400
Max. abs	1.0	0.40	0.20	0.08	0.04	0.03	0.02	0.01

Ajax Periodic Table

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425 Propan-2-ol (Isopropanol)

UNIVAR

Description: clear , colourless liquid with a characteristic odour.
For qualitative and quantitative analysis.

Assay.....	99.5% min.
Colour (APHA).....	10 max.
Refractive Index.....	1.376-1.379
Relative Density (@ 20°C).....	0.785-0.789

Maximum limit of impurities(%)

Related substances.....	0.3
R.A.E.....	0.001
Titrateable acid or base.....	0.01 mmol H or OH
Sol. (in H ₂ O).....	To pass test
Peroxides.....	To pass test
Na.....	0.0002
H ₂ O.....	0.2
Benzene.....	0.0002
Al.....	0.00001
Mg.....	0.00001
K.....	0.00001
Ba.....	0.000005

Cd.....	0.000005
Pb.....	0.000005
Ca.....	0.000005
Cr.....	0.000002
Co.....	0.000002
Cu.....	0.000002
Mn.....	0.000002
Ni.....	0.000002
Sr.....	0.000002
Zn.....	0.000002
Fe.....	0.000002
Carbonyl Cpds.....	0.002

U.V. Absorbance:

λ(nm)	230	250	270	290	310
Max. abs	0.3	0.1	0.03	0.02	0.01

Chemical and Physical parameters conform to ACS & BP

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

426 Propan-2-ol (Isopropanol)

UNILAB

Density.....	about 0.78g/mL
R.I.....	about 1.378
B.R.(95% min.).....	81 - 83°C

Maximum limit of impurities(%)

Non-vol.....	0.01
Titrateable acid or base.....	0.03 mmol H or OH

Aldehydes & ketones (as (CH₃)₂CO)..... 0.05

Pack Size: 500mL, 2.5L, 20L, 200L

946 Propan-2-ol (Isopropanol)

LABCHEM

B.R. (95% maximum).....	80-84°C
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Maximum limit of impurities(%)

Non-volatile Cpds.....	0.005
------------------------	-------

Pack Size: 500mL

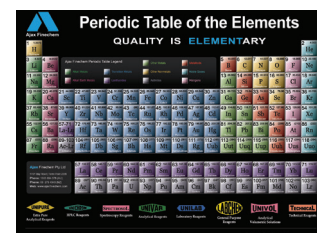
N-Propanol (See Propan-1-ol Page 367)

2-Propanone (See Acetone Page 23)

4-Propenylanisole ((See trans-Anethole Page 62)

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Propionaldehyde

CAS 123-38-6
Synonym: Propanal
 $C_3H_6O = 58.08$

U.N Number.....1275
ADG Class.....3
Packing Group.....II



714 Propionaldehyde LABCHEM

Assay (GC).....>98%
Density @ 20°C.....0.798 – 0.803

Maximum limit of impurities(%)
H₂O..... 2

Pack Size: 500 mL

Propionic Acid

CAS 79-09-4
 $C_2H_5COOH = 74.08$

U.N Number.....1848
ADG Class.....8
Packing Group.....III



693 Propionic Acid UNILAB

Density.....about 0.99g/mL
Assay.....99.5% min.

Maximum limit of impurities(%)
Water..... 0.1

Pack Size: 500mL, 2.5L, 20L

Iso-Propyl Acetate

CAS 108-21-4
 $CH_3COOCH(CH_3)_2 = 102.13$

U.N Number.....1220
ADG Class.....3
Packing Group.....II



2403 Iso-Propyl Acetate UNILAB

Density.....about 0.87g/mL
Assay.....97.0% min.

Maximum limit of impurities(%)
Non-vol..... 0.01 Acidity (as CH₃COOH)..... 0.03

Pack Size: 500ML

2-Propyl Acetate (See Iso-Propyl Acetate Page 370)

Pumice Stone

2446 Pumice Stone 5-10 MM

LABCHEM

Pack Size: 500g

PVP (See Polyvinyl Pyrrolidone Page 339)

Pyridine

CAS 110-86-1
C₅H₅N = 79.10

U.N Number.....1282
ADG Class.....3
Packing Group.....II



430 Pyridine

UNIVAR

Description: clear liquid with a characteristic odour.
Assay.....99.0% min.

Maximum limit of impurities(%)

R.A.E..... 0.002
Sol. (in H₂O)..... To pass test
Cl..... 0.001
SO₄..... 0.001

Cu..... 0.0005
NH₃..... 0.002
Reducing substances..... To pass test
H₂O..... 0.1

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L

431 Pyridine

UNILAB

Density.....about 0.98g/mL
R.I.....about 1.510
Assay.....99% min.

Maximum limit of impurities(%)

Non-vol..... 0.01

H₂O..... 0.5

Pack Size: 500mL, 2.5L, 20L

Pyridoxine Hydrochloride

CAS 58-56-0

Synonyms: Adermine hydrochloride; Vitamin B6

C₈H₁₁NO₃.HCl = 205.64

3111 Pyridoxine Hydrochloride For Biochemistry

LABCHEM

Assay.....99.5% min.
M.P.....202 - 206°C

Maximum limit of impurities(%)

L.O.D..... 0.2

Pack Size: 10g

1-(2-Pyridylazo)-2-Naphthol

CAS 85-85-8
Synonyms: PAN
 $C_{15}H_{11}N_3O = 249.27$

3112

1-(2-Pyridylazo)-2-Naphthol Metal indicator (Reagent for complexometric titration, Reagent for complexometric determination of vanadium)

LABCHEM

Assay.....99%
M.P.137 – 140°C

Pack Size: 5g

4-(2-Pyridylazo)-Resorcinol

CAS 16593-81-0
Synonyms: PAR indicator Colorimetric reagent for cobalt, lead and uranium
 $C_{11}H_8N_3Na_2 \cdot H_2O = 255.21$

3113

4-(2-Pyridylazo)-Resorcinol Monosodium salt Hydrate

LABCHEM

Assay.....99% min.

Pack Size: 1g

Pyrogallol, Crystals

CAS 87-66-1
 $C_6H_3(OH)_3 = 126.11$

1191

Pyrogallol, Crystals

UNIVAR

Description: dense, white crystals.

M.R. (2°C range).....131 - 135°C

Maximum limit of impurities(%)

R.A.I. 0.005

Cl. 0.001

SO₄..... 0.005

H.M. (as Pb)..... 0.0005

Fe..... 0.001

Protect from light

Conforms to ACS

Pack Size: 100g

Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



Pyronine Y

CAS 92-32-0
 $C_{17}H_{19}N_2OCl = 302.8$

3257 Pyronine Y (C.I. 45005)

LABCHEM

Description: lustrous green crystals
 Absorption maximum (in 50% Ethanol).....546nm

Maximum limit of impurities(%)
 L.O.D..... 4.5

Pack size: 25g

1-Pyrrolidinedithiocarboxylic Acid (See Ammonium Pyrrolidine Dithiocarbamate Page 59)

Pyruvic Acid Sodium Salt (See Sodium Pyruvate Page 422)

Quinhydrone

CAS 106-34-3
 $C_6H_4O_2 \cdot C_6H_4(OH)_2 = 218.21$

U.N Number.....2811
 ADG Class.....6.1
 Packing Group.....III



1192 Quinhydrone

UNIVAR

Description: lustrous dark green crystalline powder.
 Suitable for pH determination.

M.P.168-172°C
 1,4 Benzoquinone.....48-52%
 Hydroquinone.....48-52%

Maximum limit of impurities(%)
 Sulph. ash..... 0.2
 Iron..... 0.001

Sulphate..... 0.02

Pack Size: 100g

Quinol

CAS 123-31-9
 $C_6H_4(OH)_2 = 110.11$

261 Quinol

UNILAB

M.P.171°C

Maximum limit of impurities(%)
 Sulph. ash..... 0.1
 Fe..... 0.001

H.M. (as Pb)..... 0.001
 H_2O 1.0

Pack Size: 500g, 5kg

Quinoline

CAS 91-22-5
C₉H₇N = 129.16

U.N Number.....2656
ADG Class.....6.1
Packing Group.....III



1194 Quinoline

UNILAB

Description:Hydroscopic liquid. Darkens on storage in ordinary stoppered bottle. Penetrating odour, not as offensive as pyridine. Protect from light and moisture.

Assay.....96% min.
Density (@ 20°C).....about 1.09g/mL

Pack Size: 500mL

8-Quinolinol (See 8-Hydroxyquinoline Page 235)

Quinone (See P-Benzoquinone Page 84)

Rankin Indicator Solution For Sulphur Dioxide

U.N Number.....1170
ADG Class.....3
Packing Group.....III



1868 Rankin Indicator Solution For Sulphur Dioxide

LABCHEM

Methylene Blue and Methyl Red in Ethanol (45%)

Pack Size: 100mL

Rapid Test Sticks

2421 Rapid Ammonium Test Sticks

AJAX

For semi-quantitative determination of Ammonium in solutions.

Range:.....10-400mg/L NH₄⁺
Gradation:.....0-10-25-50-100-200-400 mg/L NH₄⁺
Colour Change:.....Yellow to orange

Pack Size: 100

2424 Rapid Chromate Test Sticks

AJAX

For semi-quantitative determination of Chromate in solutions.

Range:.....3-100mg/L CrO₄²⁻
Gradation:.....0-3-10-30-100 mg/L CrO₄²⁻
Colour Change:.....white to violet

Pack Size: 100

2425 Rapid Copper Test Sticks

AJAX

For semi-quantitative determination of Copper in solutions.

Range:.....10-300mg/L Cu⁺/Cu₂⁺
Gradation:.....0-10-30-100-300 mg/L Cu⁺/Cu₂⁺
Colour Change:.....white to red-violet

Pack Size: 100

2426 Rapid Cyanide Test Sticks AJAX

For semi-quantitative determination of Cyanide in solutions.

Range:.....1-30mg/L CN⁻

Gradation:.....0-1-3-10-30 mg/L CN⁻

Colour Change:.....white to red-violet

Pack Size: 100

2423 Rapid Molybdenum Test Sticks AJAX

For semi-quantitative determination of Molybdenum in solutions.

Range:.....5-250mg/L Mo₆⁺

Gradation:.....0-5-20-100-250 mg/L Mo₆⁺

Colour Change:.....white to green

Pack Size: 100

2432 Rapid Nitrate/Nitrite Test Sticks AJAX

For semi-quantitative determination of Sulphite in solutions.

Range:.....10-5000mg/L NO₃⁻

Gradation:.....0-10-25-50-100-250-500mg/L NO₃⁻

Range:.....1-80mg/L NO₂⁻

Gradation:.....0-1-5-10-20-40-80 mg/L NO₃⁻

Colour Change:.....white to red-violet

Pack Size: 100

2418 Rapid Nitrite 3000 Test Sticks AJAX

For semi-quantitative determination of high concentrations of Nitrite in solutions.

Range.....0.1-3g/L NO₂⁻

Gradation:.....0-0.1-0.3-0.6-1-2-3g/L NO₂⁻

Colour Change:.....Yellow to red

Pack Size: 100

2419 Rapid Nitrite Test Sticks AJAX

For semi-quantitative determination of Nitrite in solutions.

Range.....1-80mg/L NO₂⁻

Gradation:.....0-1-5-10-20-40-80mg/L NO₂⁻

Colour Change:.....white to red-violet

Pack Size: 100

2429 Rapid Peroxide 100 Test Sticks AJAX

For semi-quantitative determination of Hydrogen Peroxide (H₂O₂) and peroxides in solutions.

Range:.....1-100mg/L H₂O₂

Gradation:.....0-1-3-10-30-100 mg/L H₂O₂

Colour Change:.....white to blue

Pack Size: 100

2420 Rapid Sulphite Test Sticks AJAX

For semi-quantitative determination of Sulphite in solutions.

Range:.....10-1000mg/L SO₃⁻

Gradation:.....0-10-25-50-100-250-500-1000 mg/L SO₃⁻

Colour Change:.....white to salmon

Pack Size: 100

2422 Rapid Zinc Test Sticks

AJAX

For semi-quantitative determination of Zinc (Zn²⁺) in solutions.

Range:.....2-100mg/L Zn²⁺

Gradation:.....0-2-5-10-25-50 mg/L Zn²⁺

Colour Change:.....orange to red

Pack Size: 100

Red Lead (See Lead Oxide Red Lead Page 255)

Resorcinol

CAS 108-46-3
C₆H₄(OH)₂ = 110.10

U.N Number.....2876

ADG Class.....6.1

Packing Group.....III



1196 Resorcinol

UNIVAR

Description: colourless crystals or crystalline powder; becoming red on exposure to air and light.

Assay.....99.0% min.

M.P.109 – 111°C

Maximum limit of impurities(%)

L.O.D.1

Sulph. ash.0.02

Free acid (as H₂SO₄).....0.005

Free alkali (as NH₃).....0.002

H.M (as Pb).....0.004

Cl.....0.008

SO₄.....0.02

Pyrocatechol.....To pass test

Pack Size: 100g

1197 Resorcinol

UNILAB

Description: colourless or slightly pinkish-grey crystals or crystalline powder; odour, characteristic. Turns red on exposure to light and air.

Assay (after drying).....98.5 - 101.0%

M.P.109-112°C

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test

Pyrocatechol.....To pass test

L.O.D.1.0

Sulphated ash.....0.1

Acidity/Alkalinity.....To pass test

Pack Size: 100g, 500g

Rochelle Salt (See Potassium Sodium Tartrate Page 363)

Rhodamine B (CI 45170)

CAS 81-88-9
C₂₈H₃₁N₂O₃Cl = 479.03

2336 Rhodamine B (CI 45170)

LABCHEM

Reagent for antimony, gallium, gold and tungsten.

Pack Size: 25g

Rose Bengal

CAS 632-69-9
 $C_{20}H_2Cl_4I_4Na_2O_5 = 1017.6$

3258 Rose Bengal

LABCHEM

Description: Bright pink coloured crystalline powder
 Solubility: Soluble in water.
 Dye content.....about 90%

Pack size: 25g

Rubeanic Acid (See Dithio-Oxamide Page 188)

Rubidium Chloride

CAS 7791-11-9
 RbCl = 120.92

3118 Rubidium Chloride

OP

Pack Size: 10g

Rubin S (See Fuchsin Acid Page 210)

Rubine Acid (See Fuchsin Acid Page 210)

Ruthenium Trichloride

CAS 13815-94-6
 $RuCl_3 \cdot 3H_2O = 207.43$

U.N Number.....3260
 ADG Class.....8
 Packing Group.....II



3120 Ruthenium Trichloride (Used as catalyst in ruthenium tetraoxide catalysed oxidations)

LABCHEM

Ru Content.....39% min.

Pack Size: 1g

Saltpetre (See Potassium Nitrate Page 358)

Safranin O (CI 50240)

CAS 477-73-6

3260 Safranin O (CI 50240)

OP

Stain for microscopy. Redox indicator.
 Transition EMF (@ pH=0).....+0.24 V
 Transition EMF (@ pH=7).....-0.29 V
 Colour change:
 Oxidized (purple) to reduced (colourless) @pH=0
 Oxidized (brown) to reduced (colourless) @pH=7

Pack Size: 25g

1847 **Safranin Stain Solution** LABCHEM

Safranin 1% aqueous solution

Pack Size: 1L, 5L

Safsolvent, For Histopathology

CAS 5989-27-5

2537 **Safsolvent, For Histopathology** LABCHEM

A safer alternative to xylene, for removing embedding media etc.

Density @ 20°C.....0.838 - 0.844g/mL

R.I @ 20°C.....1.471 - 1.474

Pack Size: 5L, 20L, 200L

Salicin For Microbiology

CAS 138-52-3

$C_{13}H_{18}O_7 = 286.28$

3121 **Salicin** LABCHEM

Assay.....99% min.

Microbiological test.....To pass test

Pack Size: 10g

Salicylaldoxime

CAS 94-67-7

$C_7H_7NO_2 = 137.14$

442 **Salicylaldoxime (Reagent For Copper And Palladium)** LABCHEM

Assay.....98% min.

M.P.57 - 59°C

Pack Size: 25g

Salicylanilide

CAS 87-17-2

$HOC_6H_4CONHC_6H_5 = 213.24$

429 **Salicylanilide** TECHNICAL

Pack Size: 500g

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

Salicylic Acid

CAS 69-72-7
 $\text{HOC}_6\text{H}_4\text{COOH} = 138.12$

1198 Salicylic Acid UNIVAR

Description: fine colourless crystals.

Assay.....99.5% min.
 M.P.158.0 - 161.0°C

Maximum limit of impurities(%)

R.A.I..... 0.01
 Cl..... 0.001
 SO₄..... 0.003
 Fe..... 0.0002

H.M. (as Pb)..... 0.0005
 Subs. darkened by H₂SO₄..... To pass test
 Colour & Clarity..... To pass test

Conforms to ACS

Pack Size: 500g, 5kg

435 Salicylic Acid UNILAB

Description: colourless acicular crystals or white crystalline powder; odourless.

Assay.....99.5 - 100.5%
 M.P.158-161°C
 L.O.D.0.5% max.

Maximum limit of impurities(%)

Clarity and colour of soln. To pass test
 Sulph. ash..... 0.1
 Cl..... 0.010

SO₄..... 0.020
 H.M. (as Pb)..... 0.0020

Pack Size: 500g, 5kg, 25kg

Salicylic Acid Sodium Salt (See Sodium Salicylate Page 422)

Salicylsulphonic Acid (See Sulphosalicylic Acid Page 438)

Salol (See Phenyl Salicylate Page 333)

Salt Common (See Sodium Chloride Page 398)

Sand

1199 Sand, Acid Washed UNILAB

Maximum limit of impurities(%)

HCl soluble matter..... 0.2
 Loss on ignition @ 800 Deg C..... 0.2
 Chloride (Cl)..... 0.015

Pack Size: 1kg, 3kg, 5kg, 25kg

Saponin White

CAS 8047-15-2

764 Saponin White

UNILAB

Description: Natural origin.

Pack Size: 100g

Scarlet R (CI 26105)

CAS 85-83-6

3261 Scarlet R (CI 26105)

OP

Stain for microscopy.
Lipoprotein stain.

Pack Size: 25g

Schiff's Reagent

1848 Schiff's Reagent

LABCHEM

Contains Fuchsin Basic 0.5%

Pack Size: 500mL

Sebacoyl Chloride

CAS 111-19-3
 $\text{COCl}(\text{CH}_2)_8\text{COCl} = 239.14$

U.N Number.....1760
ADG Class.....8
Packing Group.....II



2371 Sebacoyl Chloride

LABCHEM

Density.....about 1.12g/mL
Assay.....90% min.
Store below 4°C (refrigerate)

Pack Size: 100mL

2487 Sebacoyl Chloride

Technical

Density.....about 1.12g/mL
Store below 4°C (refrigerate)

Pack Size: 100mL

Selenious Acid (See Selenous Acid Page 382)

Selenium 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....II



2664 Selenium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Selenium standard, ready for use.
 Se in 10% Nitric acid.

Pack Size: 100mL

Selenium AAS Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....II



2594 Selenium AAS Standard

SPECTROSOL

A 1000 ppm Selenium standard, ready for use.
 Each ml contains 1.00+/-0.005mg of Se in 10% Nitric acid.

Pack Size: 500mL

Selenium Powder

CAS 7782-49-2
 Se = 78.96

U.N Number.....3283
 ADG Class.....6.1
 Packing Group.....III



761 Selenium Powder

UNIVAR

Description: dark red to black powder.
 Assay.....99.5% min.

Maximum limit of impurities(%)

R.A.I.	0.5	
Insol (in Nitric Acid).....	0.05	
N cpds (as N).....	0.01	
S cpds (as S).....	0.05	

Cu.....	0.01
Fe.....	0.05
Pb.....	0.05

Pack Size: 25g, 100g

1590 Selenium Powder

UNILAB

Assay.....99.0% min.

Pack Size: 100g

Selenium Metal Pellets 99.999%

CAS 7782-49-2
Se = 78.96

U.N Number.....3077
ADG Class.....9
Packing Group.....III



441 Selenium Metal Pellets 99.999% (Electronic grade)

LABCHEM

Pack Size: 100g

Selenium Dioxide

CAS 7446-08-4
SeO₂ = 110.96

U.N Number.....3283
ADG Class.....6.1
Packing Group.....I



1200 Selenium Dioxide

UNILAB

Assay(after drying).....97.0% min

Pack Size: 100g

Selenous Acid

CAS 7783-00-8
H₂SeO₃ = 128.97

U.N Number.....2630
ADG Class.....6
Packing Group.....I



436 Selenous Acid

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

SO₄.....0.1

Pack Size: 100 g

Semicarbazide Hydrochloride

CAS 563-41-7
CH₆CIN₃O = 111.53

437 Semicarbazide Hydrochloride (For Detection Of Aldehydes And Ketones)

UNIVAR

Assay.....99.5% min.

M.P. (decomposition).....174 – 178°C

Maximum limit of impurities(%)

Substances insoluble.....0.02

Hydrazine (N₂H₄).....0.01

Alcohol (GC).....0.01

Sulphated ash.....0.02

Pack Size: 100g

L-Serine

CAS 56-45-1
 $C_3H_7NO_3 = 105.1$

2033 L-Serine UNIVAR

Description: white crystalline powder

Assay.....99.0% min.

Specific rotation.....+13.5 to 16°

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.002

As..... 0.0003

L.O.D..... 0.3

Pb..... 0.001

R.O.I..... 0.1

Pack size: 25g

Sextone (See Cyclohexanone Page 163)

Silica Gel

CAS 63231-67-4

3694 Silica Gel (Grade 923) LABCHEM

Typical bead size.....0.074 – 0.149mm

Description: Grade 923, 75-150 micron, is a white powder consisting of synthetic amorphous silica and is normally 100 - 200mesh.

Application: Grade 923 meets ASTM D1319 specifications for hydrocarbon analysis and meets ASTM D2549 specification for aromatics analysis.

Suitable for column chromatography.

Pack Size: 1Kg

1454 Silica Gel 230-400 Mesh (40-63 Microns) LABCHEM

Typical bead size.....0.038 - 0.068mm

Pore Size.....about 60Å

Pore volume.....about 0.75mL/g

Specific Surface BET.....about 450m²/g

Suitable for column Chromatography

Pack Size: 1Kg, 2.5Kg, 5Kg, 25Kg

1455 Silica Gel Grade 60-200 Mesh LABCHEM

Typical bead size.....0.06-0.1mm

Grade Davison 923. testing of petroleum products. Suitable for column chromatography.

Pack Size: 500g

1453 Silica Gel Grade 12, 28-200mesh LABCHEM

Suitable for chromatography.

Manufactured by W.R. Grace & Co. U.S.A.

Typical bead size.....0.075 - 0.60mm

Pack Size: 500g, 2kg

840 Silica Gel, 4-6 Mesh, Self-Indicating LABCHEM

Typical bead size.....3-5mm
Self indicating properties: Blue = active Pink = exhausted

Pack Size: 500g, 3kg, 5kg

1511 Silica Gel, 5-10 Mesh, Self Indicating Blue LABCHEM

Typical bead size.....2-4mm
Self indicating properties: Blue = active Pink = exhausted

Pack Size: 500g, 3kg, 5kg, 12.5kg

1510 Silica Gel, 5-10 MESH, Self Indicating, Blue LABCHEM

Self indicating properties: Blue = active Pink = exhausted

Pack Size: 500g, 3kg, 5kg, 12.5kg

8745 Silica Gel, Self-Indicating, Orange LABCHEM

Contains an organic indicator that changes colour from orange to dark blue-green after absorbing moisture.
Typical bead size.....2-5mm

Pack Size: 500g, 1Kg, 3kg, 5kg, and 25Kg

1456 Silica Gel, Self Indicating Sachets LABCHEM

Useful for preservation of moisture-sensitive products. Blue beads turn pink when exhausted.
10g sachets

Pack Size: 500g

Silica

CAS 7631-86-9
SiO₂ = 60.09

438 Silica Pure Precipitated LABCHEM

Appearance: Almost white powder
Assay.....98% min.
Density approx.....0.2g/mL
Particle size - residue on 18 nm.....10-50%
pH (5%).....5-7

Maximum limit of impurities(%)
L.O.D.@ 105°C.....4-7 L.O.I.@ 1000°C......5

Pack Size: 500g

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

Silicon 1000ppm Single Element ICP Standard

U.N Number.....1760
 ADG Class.....8
 Packing Group.....III



2665 Silicon 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Silicon standard, ready for use.
 Si in distilled water.

Pack Size: 100mL

2622 Silicon AAS Standard SPECTROSOL

A 1000 ppm Silicon standard, ready for use.
 Each mL contains 1.00+/-0.005 mg of Si

Pack Size: 500mL

1407 Silicone Oil, 200Fluid, 100CS LABCHEM

Water clear Dimethylsiloxane polymeric fluid.
 Uses: mechanical fluid, lubricant, damping and insulating agent, mould release, cosmetics, antifoams, polishes etc.
 Service range.....- 40 – 204°C

Pack Size: 20 Kg

1403 Silicone Oli, 200Fluid, 350CS LABCHEM

Water clear Dimethylsiloxane polymeric fluid.
 Uses: mechanical fluid, lubricant, damping and insulating agent, mould release, cosmetics, antifoams, polishes etc.
 Service range.....- 40 – 204°C

Pack Size: 500mL

Silicone Antifoaming Agent (See Antifoam Silicone Liquid Page 67)

Silicone Glass Treatment Solution (See Coatasil Glass Treatment Soln Page 148)

Silver 1000ppm Single Element ICP Standard

U.N Number.....3193
 ADG Class.....5.1
 Packing Group.....III



2647 Silver 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Silver standard, ready for use.
 Ag in 0.5% Nitric acid.

Pack Size: 100mL

2623 Silver AAS Standard SPECTROSOL

A 1000 ppm Silver standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ag in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

Silver Acetate

CAS 563-63-3
CH₃COOAg = 166.91

U.N Number.....3077
ADG Class.....9
Packing Group.....III



440 Silver Acetate

UNILAB

Assay.....98% min.

Pack Size: 100g

Silver Carbonate

CAS 534-16-7
Ag₂CO₃ = 275.75

439 Silver Carbonate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Cl.....0.005
NO₃.....0.05
As.....0.0001

Pb.....0.003
Fe.....0.002
L.O.D. @ 105°C.....0.2

Pack Size: 25g

Silver Chloride

CAS 7783-90-6
AgCl = 143.32

445 Silver Chloride

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

Fe.....0.003
Cu.....0.003

Pb.....0.003
Ni.....0.003

Pack Size: 25g

Silver Diethyl Dithiocarbamate

CAS 1470-61-7
Synonyms: DECT; Diethyldithiocarbamic acid silver salt
C₅H₁₀NS₂Ag = 256.14

3124 Silver Diethyl Dithiocarbamate (Reagent for the spectrophotometric determination of As and Sb)

LABCHEM

Solution in pyridine
Sensitivity as reagent for As

To pass test
To pass test

Pack Size: 5g

Silver Iodide

CAS 7783-96-2
AgI = 234.77

448

Silver Iodide

LABCHEM

Assay.....99.8% min.

Maximum limit of impurities(%)

Cd.....	0.001	Al.....	0.0005
Mn.....	0.001	Si.....	0.001
Mg.....	0.001	Fe.....	0.005
Sn.....	0.0005	Cu.....	0.005

Protect from light

Pack Size: 25g, 100g, 5kg

Silver Nitrate

CAS 7761-88-8
AgNO₃ = 169.87

U.N Number.....1493
ADG Class.....5.1
Packing Group.....II



1807

Silver Nitrate, Certified Reference Standard

UNIPURE

Assay (Arg.)(after drying with H₂SO₄)...99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in H ₂ O.....	0.003	Ca.....	0.001
Insoluble matter in C ₂ H ₅ OH	To pass test	Cu.....	0.0002
Non-precipit. subst. by HCl.....	0.01	Fe.....	0.0002
Acidity	To pass test	Mg.....	0.001
Cl.....	0.0005	K.....	0.01
SO ₄	0.002	Na.....	0.002
Bi.....	0.0005	Pb.....	0.001

Pack Size: 100g

449

Silver Nitrate

UNIVAR

Description: colourless crystals which become grey or black if exposed to light.

Assay.....99.0% min

Maximum limit of impurities(%)

Clarity of solution	To pass test		
Free acid	To pass test	Cu.....	0.0002
Subs. not ppt. by HCl.....	0.01	Fe.....	0.0002
Cl.....	0.0005	Pb.....	0.001
SO ₄	0.002		

Conforms to ACS

Protect from light.

Pack Size: 25g, 100g, 250g, 500g

631 Silver Nitrate UNILAB

Description: colourless, transparent crystals or white, crystalline powder; odourless.
 Assay.....99.0 - 100.5%

Maximum limit of impurities(%)
 Acidity or alkalinity..... To pass test
 Clarity and colour of soln.....To pass test
 Foreign salts..... 0.3
 Al.....To pass test
 Pb..... To pass test
 Cu..... To pass test
 Bi.....To pass test

Chemical and physical parameters conform to BP
 Protect from light

Pack Size: 25g, 100g, 250g, 500g

948 Silver Nitrate LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)
 Foreign salts..... 0.5

Protect from light

Pack Size: 25g, 100g

Silver Nitrate 0.0282M Solution

U.N Number.....3139
 ADG Class.....5.1
 Packing Group.....III



2397 Silver Nitrate 0.0282M Solution UNIVOL

Molarity (normality).....0.0279 - 0.0285

Pack Size: 2.5L

2399 Silver Nitrate 0.05M Solution UNIVOL

Molarity (normality)..... 0.0497 - 0.0503M

Pack Size: 5L

640 Silver Nitrate 0.100M Solution UNIVOL

For the volumetric quantitative determination of halides.
 Molarity (normality).....0.0995 - 0.1005 mol/L

Pack Size: 500mL, 2.5L

1376 Silver Nitrate 0.1MOL Concentrate, Ampoule OP

Description: plastic ampoule containing clear colourless liquid
 0.1 mole (16.987g AgNO₃) to prepare 1L of 0.1N solution
 Molarity.....0.0998 - 0.1002 mol/L

Pack size: Ampoule

Silver Nitrite

CAS 7783-99-5
AgNO₂ = 153.88

U.N Number.....1479
ADG Class.....5.1
Packing Group.....II



718

Silver Nitrite

LABCHEM

Pack Size: 25g

Silver Oxide

CAS 20667-12-3
Ag₂O = 231.74

U.N Number.....1479
ADG Class.....5.1
Packing Group.....III



451

Silver Oxide

LABCHEM

Pack Size: 25g

Silver Sulphate

CAS 10294-26-5
Ag₂SO₄ = 311.80

2450

Silver Sulphate

UNIVAR

Description: white crystalline powder, darkening on exposure to light.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol..... 0.02
NO₃..... 0.1

Fe..... 0.001
Subs. not precipitated by HCl..... 0.03

Pack Size: 25g, 100g, 1kg

1202

Silver Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.04

Fe..... 0.005

Pack Size: 25g, 100g

Soda Ash (See Sodium Carbonate Anhydrous Page 395)

1206

Soda Lime Self Indicating 4-8 Mesh

LABCHEM

Colour change: off-white(active)-violet (exhausted).

For removal of carbon dioxide when installed in columns/canisters to protect products from CO₂ absorption.

Pack Size: 500g, 5kg

Sodium 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....III



2648 Sodium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Sodium standard, ready for use.
 Na in 0.5% Nitric acid.

Pack Size: 100mL

2600 Sodium AAS Standard

SPECTROSOL

A 1000 ppm Sodium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Na in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

Sodium, Metal, Lumps

CAS 7440-23-5
 Na = 22.99

U.N Number.....1428
 ADG Class.....4.3
 Packing Group.....I



3126 Sodium, Metal, Lumps

OP

Assay.....about 99.5%

Maximum limit of impurities(%)

Cl.....0.002
 Ca.....0.1

K.....0.01

Pack Size: 100g, 500g

Sodium Acetate, Anhydrous

CAS 127-09-3
 CH_3COONa = 82.03

679 Sodium Acetate, Anhydrous

UNIVAR

Description: white hygroscopic powder.

Assay.....99.0% min.
 pH (5% soln. @ 25°C).....7.0 – 9.2

Maximum limit of impurities(%)

Insol.....0.01
 L.O.D.(@ 120°C).....1.0
 Cl.....0.002
 PO_40.001
 SO_40.003
 Fe.....0.0005
 Cu.....0.0005

Pb.....0.0005
 Mg.....0.001
 H.M. (as Pb).....0.001
 Al.....0.001
 Ca.....0.002
 K.....0.02
 As.....0.0001

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

680

Sodium Acetate, Anhydrous

UNILAB

Assay (after drying @ 120°C).....99.0% min.
 pH (5% soln. @ 25°C).....7.0 – 9.5

Maximum limit of impurities(%)

L.O.D. (@120°C)..... 2.0
 Cl..... 0.02
 SO₄..... 0.03

H.M. & (as Pb)..... 0.005
 Fe..... 0.005

Pack Size: 500g, 5kg, 25kg

Sodium Acetate, Hydrated

CAS 6131-90-4

CH₃COONa.3H₂O = 136.08

456

Sodium Acetate, Hydrated

UNIVAR

Description:colourless crystals or crystalline powder

Assay.....99.0 - 101.0%
 pH (5% soln. @ 25°C).....7.5 – 9.2

Maximum limit of impurities(%)

Insol..... 0.005
 Cl..... 0.001
 Ca..... 0.001
 PO₄..... 0.0005
 SO₄..... 0.002
 Fe..... 0.0005
 Al..... 0.0005

Cu..... 0.0005
 Pb..... 0.0005
 Mg..... 0.0005
 H.M. (as Pb)..... 0.0005
 Subs. reducing KMnO₄ (as O) To pass test
 K..... 0.005

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 10kg, 25kg

457

Sodium Acetate, Hydrated

UNILAB

Assay.....99.0% min.
 pH (5% soln.).....7.5 – 9.2
 L.O.D.....36 – 41%

Maximum limit of impurities(%)

Cl..... 0.005
 SO₄..... 0.02
 Fe..... 0.005
 H.M. (as Pb)..... 0.001

Alkalinity..... 0.05
 As..... 0.0003
 Potassium Compounds To pass test

Chemical and physical parameters conform to FCC

Pack Size: 500g, 5kg, 25kg

Sodium Acid Citrate (See di-Sodium Hydrogen Citrate Page 407)

Sodium Alginate

CAS 9005-38-3

1560 Sodium Alginate

TECHNICAL

Aqueous thickener. Particle size (1400 microns) 98% min.
pH (1%).....5.5 – 8.5
Viscosity.....2700 – 4000 cps
Dry Matter.....85-94%

Pack Size: 250g

Sodium Arsenate,Hydrated

CAS 13464-38-5

$\text{Na}_2\text{HAsO}_4 \cdot 7\text{H}_2\text{O}$ = 312.01

U.N Number.....1685

ADG Class.....6.1

Packing Group.....II



1076 Sodium Arsenate,Hydrated

UNIVAR

Description: white crystals or crystalline powder.
Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.005

As_2O_3 0.01

Cl..... 0.001

NO_3 0.005

SO_4 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.002

Conforms to ACS

Pack Size: 500g

Sodium Arsenite

CAS 7784-46-5

NaAsO_2 = 129.91

U.N Number.....2027

ADG Class.....6.1

Packing Group.....II



1211 Sodium Arsenite

UNILAB

Appearance: Off-white to grey. 10% aqueous solution is turbid.
Assay.....97% min.

Maximum limit of impurities(%)

Insoluble in H_2O 0.01

Cl..... 0.05

Cu..... 0.002

K..... 0.02

Pb..... 0.002

Pack Size: 500g

HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at www.ajaxfinechem.com/Unichrom

Sodium Azide

CAS 26628-22-8
 $\text{NaN}_3 = 65.01$

U.N Number.....1687
 ADG Class.....6.1
 Packing Group.....II



1222 Sodium Azide

LABCHEM

Assay.....99.0% min.
 Total Moisture.....0.2% max.
 Free alkalinity (as NaOH).....0.2% max.

Pack Size: 100g, 500g, 5Kg

Sodium Benzoate

CAS 532-32-1
 $\text{C}_6\text{H}_5\text{COONa} = 144.11$

459 Sodium Benzoate

UNILAB

Description: white, crystalline or granular powder or flakes; slightly hygroscopic.

Assay (after drying).....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity & colour of solution To pass test
 Acidity or alkalinity To pass test
 L.O.D..... 2.0

Halogenated cpds.(ionic Cl)..... 0.02
 Total Chlorine..... 0.03
 H.M. (as Pb)..... 0.001

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

Sodium Bicarbonate (See Sodium Hydrogen Carbonate Page 406)

Sodium Bichromate (See Sodium Dichromate Dihydrate Page 401)

Sodium Bismuthate

CAS 12232-99-4
 $\text{NaBiO}_3 = 279.97$

833 Sodium Bismuthate

UNIVAR

Description: yellow to brown amorphous powder.

Assay.....80% min.

Maximum limit of impurities(%)

Cl..... 0.002
 Mn..... 0.0005

NO_3 0.004

Pack Size: 100g

1223 Sodium Bismuthate

UNILAB

Assay.....80.0% min.

Maximum limit of impurities(%)

Cl..... 0.015

Mn..... 0.002

Pack Size: 500g

Sodium Bisulphate Monohydrate

CAS 10034-88-5

Synonyms: Sodium hydrogen sulphate (Monohydrate)
NaHSO₄·H₂O = 138.07

U.N Number.....3260

ADG Class.....8

Packing Group.....III



444 Sodium Bisulphate Monohydrate

UNIVAR

Assay (acidimetric).....99% min.

Maximum limit of impurities(%)

Cl.....0.001

PO₄.....0.0005

N.....0.001

Pb.....0.0005

Al.....0.001

Ca.....0.001

Fe.....0.0005

K.....0.002

Mg.....0.0005

Pack Size: 500g

Sodium Borate (See Sodium Tetraborate Page 427)

Sodium Borofluoride (See Sodium Fluoborate Page 404)

Sodium Borohydride

CAS 16940-66-2

NaBH₄ = 37.83

U.N Number.....1426

ADG Class.....4.3

Packing Group.....I



2334 Sodium Borohydride

LABCHEM

Description: Reducing Agent - useful for recovery of metals, in dyeing, organic synthesis.

Typical assay.....97% min.

Pack Size: 25g, 100g, 500g, 5kg

2562 Sodium Borohydride Tablets For AAS

LABCHEM

Dimension of tablets approx 11mm diameter & 17.5mm long.

Assay - approx.....97%

Used in AAS hydride determination of arsenic, selenium etc. Traceable to NIST

Pack Size: x 500

Sodium Bromate

CAS 7789-38-0

NaBrO₃ = 150.89

U.N Number.....1494

ADG Class.....5.1

Packing Group.....II



3127 Sodium Bromate

UNILAB

Assay (iodometric).....99% min.

Acidity.....2ml N%

Maximum limit of impurities(%)

Br.....0.02

SO₄.....0.02

Pack Size: 500g

Sodium Bromide

CAS 7647-15-6
NaBr = 102.89

U.N Number.....3077
ADG Class.....9
Packing Group.....III



462

Sodium Bromide

UNILAB

Assay (after drying).....99.5% min.
pH (5%).....6 - 8

Maximum limit of impurities(%)

L.O.D.....0.3
Alkalinity.....0.4 mmol OH
BrO₃.....0.001
Cl.....0.1
SO₄.....0.005
As.....0.0002

Ba.....0.05
Fe.....0.0002
Pb.....0.001
Hg.....0.000002
I.....0.01

Pack Size: 500g, 10kg

Sodium Cacodylate Trihydrate

CAS 6131-99-3
(CH₃)₂AsO₂Na.3H₂O = 214.03

U.N Number.....1688
ADG Class.....6.1
Packing Group.....II



3151

Sodium Cacodylate Trihydrate

LABCHEM

Assay.....97% min.

Pack Size: 25g

Sodium Carbonate, Anhydrous

CAS 497-19-8
Na₂CO₃ = 105.99

1808

Sodium Carbonate Anhydrous, Certified Reference Standard

UNIPURE

Assay (Acidim.) after drying at 120°C...99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in H₂O.....0.005
Reducing substances I₂.....0.005
Nitrogen cpds (as N).....0.001
Sulphur cpds (as SO₄).....0.003
Cl.....0.001
PO₄.....0.001
SiO₂.....0.005
H.M. (as Pb).....0.0005
Al.....0.001

As.....0.0001
Ca.....0.005
Cu.....0.0005
Fe.....0.0005
K.....0.005
Mg.....0.002
Ni.....0.0005
Pb.....0.0005

Pack Size: 100g

463

Sodium Carbonate Anhydrous

UNIVAR

Description: white, hygroscopic slightly granular powder.
Assay(after drying @ 285°C).....99.8% min

Maximum limit of impurities(%)

Insol.....	0.01
L.O.D. (@285 Deg C).....	1.0
Cl.....	0.001
PO ₄	0.001
Al.....	0.001
N cpds (as N).....	0.001
SiO ₂	0.005
Ca.....	0.01
S cpds (as SO ₄).....	0.003
Cu.....	0.0005

Fe.....	0.0005
Pb.....	0.0005
H.M. (as Pb).....	0.0005
As.....	0.0001
Alkali hydroxides & bicarb.	To pass test
Clarity & colour of solution	To pass test
K.....	0.005
Mg.....	0.005
Ammonium Hydroxide Pptes.....	0.01

Conforms to ACS

Pack Size: 500g, 1.5kg, 5kg, 25kg

464

Sodium Carbonate Anhydrous

UNILAB

A white or almost white,slightly granular powder; hygroscopic.
Assay(after drying @ 300°C).....99.5 – 100.5%

Maximum limit of impurities(%)

Clarity & colour of sol.....	To pass test
L.O.D. (@285°C).....	1.0
Cl.....	0.0125
SO ₄	0.025
As.....	0.0005

Fe.....	0.005
H.M. (as Pb).....	0.005
Alkali hydroxide & bicarbonate	To pass test

Pack Size: 500g, 5kg, 25kg

Sodium Carbonate,Decahydrate

CAS 6132-02-1

Na₂CO₃.10H₂O = 286.15

1224

Sodium Carbonate,Decahydrate

UNIVAR

Description: moist, colourless crystals.

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Cl.....	0.001
N cpds (as N).....	0.0005
PO ₄	0.001
SiO ₂	0.001
S cpds (as SO ₄).....	0.002

As.....	0.00005
Fe.....	0.0002
H.M. (as Pb).....	0.0005
K.....	0.005

Store below 25°C

Pack Size: 500g

1225 Sodium Carbonate, Decahydrate

UNILAB

Description: Colourless, transparent crystals or a white, crystalline powder; odourless; efflorescent.
 Assay (as Na₂CO₃)..... 36.7 - 40.0%

Maximum limit of impurities(%)

Clarity & colour of sol.	To pass test	
Alkali hydroxide & bicarbonate	To pass test	Fe..... 0.002
Cl..... 0.005		H.M.(as Pb)..... 0.002
SO ₄ 0.01		As..... 0.0002

Chemical and physical parameters conform to BP
 Store below 25°C

Pack Size: 1kg, 5kg

Sodium Carbonate, Monohydrate

CAS 5968-11-6
 Na₂CO₃.H₂O = 124.01

3616 Sodium Carbonate, Monohydrate

UNIVAR

Description: white crystalline powder
 Assay.....99.5 – 100.5%

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001	
As..... 0.0002	K..... 0.04
Cl..... 0.005	L.O.D..... 12 - 15
Cu..... 0.001	Total Sulphur (as SO ₄)..... 0.005

Pack size: 500g, 5Kg

Sodium Chlorate

CAS 7775-09-9
 NaClO₃ = 106.44

U.N Number.....1495
 ADG Class.....5.1
 Packing Group.....II



1520 Sodium Chlorate

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl..... 0.050	
SO ₄ 0.005	Fe..... 0.0010
H.M. (as Pb)..... 0.002	K..... 0.005
Ca..... 0.005	Total N..... 0.001

Pack Size: 500g, 5kg

Sodium Chloride

CAS 7647-14-5

NaCl = 58.44

1809 Sodium Chloride, Certified Reference Standard

UNIPURE

Assay (Arg.) after drying at 110°C.....99.95 – 100.05%
pH (5% soln.).....5.0 - 8.0

Maximum limit of impurities(%)

Insoluble matter in H₂O..... 0.005
Nitrogen cpds (as N)..... 0.001
Br..... 0.01
Chlorate and nitrate (as NO₃)..... 0.003
Hexacyanoferrate (II) & (III) (Fe(CN₆))..... 0.0001
PO₄..... 0.0005
SO₄..... 0.001
I..... 0.002
H.M. (as Pb)..... 0.0005

As..... 0.00004
Ba..... 0.0005
Ca..... 0.002
Cu..... 0.0002
Fe..... 0.0002
K..... 0.005
Mg..... 0.001
Ni..... 0.0005
Pb..... 0.0002

Pack Size: 100g

465 Sodium Chloride

UNIVAR

Description: colourless crystals or crystalline powder.
Assay(after ignition @ 500°C).....99.9% min.
pH (5% soln. @ 25°C).....5.0 – 9.0

Maximum limit of impurities(%)

Insol..... 0.005
Br..... 0.01
ClO₃ & NO₃ (as NO₃)..... 0.003
I..... 0.002
Ca..... 0.002
Mg..... 0.001
N cpds (as N)..... 0.001
Ba..... 0.001

PO₄..... 0.0005
H.M (as Pb)..... 0.0005
SO₄..... 0.004
Cu..... 0.0002
Fe..... 0.0002
Pb..... 0.0002
K..... 0.005
Loss on ignition..... 1.0

Conforms to ACS

Pack Size: 500g, 2.5kg, 5kg, 10kg, 25kg

466 Sodium Chloride

UNILAB

Description: colourless crystals or white crystalline powder; odourless.
Assay(after drying).....99.0 - 100.5%

Maximum limit of impurities(%)

Appearance of solution To pass test
L.O.D. (105 DegC for 2 hours)..... 0.5
Acidity or alkalinity To pass test
Nitrites To pass test
Br..... 0.01
I To pass test
Ba To pass test
Ferrocyanide To pass test

Mg&alkaline-earth metals as Ca..... 0.01
PO₄..... 0.0025
SO₄..... 0.02
As..... 0.0001
H.M.(as Pb)..... 0.0005
Fe..... 0.0002
Al..... 0.00002
K..... 0.05

Chemical and physical parameters conform to BP and EP

Pack Size: 500g, 2.5kg, 5kg, 10kg, 25kg

950 Sodium Chloride LABCHEM

Assay(after drying).....98.0% min.
 Maximum limit of impurities(%)
 SO₄..... 0.03 H.M.(as Pb)..... 0.001

Pack Size: 500g

1226 Sodium Chloride TECHNICAL

Pack Size: 3kg

Sodium Chlorite 80% Powder

CAS 7758-19-2
 NaClO₂ (about 80%) = 90.44

U.N Number.....1496
 ADG Class.....5.1
 Packing Group.....II



1684 Sodium Chlorite 80% Powder TECHNICAL

Assay (as NaClO₂).....about 80%.

Pack Size: 500g

Sodium Chloroaurate

CAS 15189-51-2
 NaAuCl₄.2H₂O = 397.80

U.N Number.....1759
 ADG Class.....8
 Packing Group.....III



2407 Sodium Chloroaurate LABCHEM

Assay.....99.9% min.

Maximum limit of impurities(%)
 Pt..... 0.001 Al..... 0.001
 Ag..... 0.003 Si..... 0.002
 Cd..... 0.0004 Fe..... 0.001
 Mn..... 0.0001 Cu..... 0.001
 Mg..... 0.0001 Zn..... 0.001

Pack Size: 1g

Sodium Chromate

CAS 7775-11-3
 Na₂CrO₄ = 161.97

U.N Number.....3288
 ADG Class.....6.1
 Packing Group.....III



1394 Sodium Chromate UNILAB

Assay.....99% min.
 pH (5%).....8.5 – 10.0

Maximum limit of impurities(%)
 Cl..... 0.005 Fe..... 0.001
 Ca..... 0.005 SO₄..... 0.01
 Cu..... 0.001

Pack Size: 500g

Sodium Chromate

CAS 7775-11-3
 $\text{Na}_2\text{CrO}_4 = 161.97$

1389 Sodium Chromate Anhydrous

TECHNICAL

Pack Size: 500g

Tri-Sodium Citrate

CAS 68-04-2
 $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O} = 294.10$

467 Tri-Sodium Citrate

UNIVAR

Description: colourless crystals or crystalline powder.
Assay.....99.0% min.
pH (5% soln. @ 25 Deg. C).....7.0 – 9.0
 H_2O (K.F.).....11-13%

Maximum limit of impurities(%)

Cl..... 0.001
 C_2O_4 0.02
 SO_4 0.001
Ca..... 0.005
Cu..... 0.0005
Fe..... 0.0005

Pb..... 0.0005
Zn..... 0.0005
Ammonia..... 0.001
H.M(as Pb)..... 0.0005
Insols..... 0.003

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

468 Tri-Sodium Citrate

UNILAB

Description: white granular crystals or white, crystalline powder; odourless. Slightly deliquescent in moist air.
Assay (as $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7$).....99.0 - 101.0%
 H_2O_411.0 – 13.0%

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test
Acidity or alkalinity..... 2.0 mmol H or OH
Cl..... 0.005
 C_2O_4 0.03

SO_4 0.015
H.M. (as Pb)..... 0.001
Readily carbonisable subs. To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

4248 Tri-Sodium Citrate

TECHNICAL

Description: colourless crystals or crystalline powder.
Assay.....99.0-105.0% min.
pH (5% soln. @ 25 Deg. C).....7.0 – 9.0
 H_2O (K.F.).....11-13%

Maximum limit of impurities(%)

Clarity and Colour of Solution.....to pass test

H.M(as Pb)..... 0.001

Pack Size: 25kg

Sodium Citrate Dibasic (See di-Sodium Hydrogen Citrate Page 407)

Sodium Citrate Tribasic (See tri-Sodium Citrate Page 400)

Sodium Cobaltinitrite

CAS 13600-98-1
 $\text{Na}_3\text{Co}(\text{NO}_2)_6 = 403.94$

U.N Number.....2627
 ADG Class.....5.1
 Packing Group.....II



834

Sodium Cobaltinitrite

UNIVAR

Description: orange-yellow powder.

Assay.....95% min.

Maximum limit of impurities(%)

Insol..... 0.02

Cl..... 0.005

SO_4 0.01

Suitability for K detmn. To Pass test

Conforms to ACS

Pack Size: 100g, 500g

Sodium Cyanide Powder

CAS 143-33-9
 $\text{NaCN} = 49.01$

U.N Number.....1689
 ADG Class.....6.1
 Packing Group.....I



469

Sodium Cyanide Powder

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl..... 0.2

SO_4 0.01

H.M. & Fe (as Fe)..... 0.005

Have pure breathing Oxygen ready.

Refer MSDS

Pack Size: 250g, 5kg

3128

Sodium Deoxycholate

LABCHEM

Assay (ex Na on dried matter).....90% min.

pH (10% aqueous solution).....7 - 10

Pack Size: 25g

Sodium Dichromate, Dihydrate

CAS 7789-12-0
 $\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O} = 298.00$

U.N Number.....3288
 ADG Class.....6.1
 Packing Group.....II



1227

Sodium Dichromate, Dihydrate

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl..... 0.05

SO_4 0.1

V..... 0.003

Pack Size: 500g, 25kg

1228 Sodium Dichromate, Dihydrate

TECHNICAL

Pack Size: 3kg

Sodium-5,5-Diethylbarbiturate (See Barbitone Sodium Page 75)

Sodium Diethyldithiocarbamate

CAS 148-18-5

 $(C_2H_5)_2NCSSNa \cdot 3H_2O = 225.30$ **1229 Sodium Diethyldithiocarbamate**

UNIVAR

Description: colourless crystals or crystalline powder.

Reagent for Cu and many metals.

Na(as Na_2SO_4).....30.5 32.5%

Maximum limit of impurities(%)

Solubility (in H_2O) To pass test Sensitivity to copper To pass test

Conforms to ACS

Pack Size: 25g, 100g

Sodium Dihydrogen Orthophosphate, Dihydrate

CAS 13472-35-0

 $NaH_2PO_4 \cdot 2H_2O = 156.01$ **471 Sodium Dihydrogen Orthophosphate, Dihydrate**

UNIVAR

Description: fine colourless crystals.

Assay.....99.0 - 101.0%

pH (5% soln.).....4.3 - 4.5

Maximum limit of impurities(%)

Insol..... 0.01 K..... 0.005

Cl..... 0.001 As..... 0.0002

Fe..... 0.001 Ca..... 0.002

Mg..... 0.001 Cu..... 0.0001

 SO_4 0.005 Pb..... 0.0001

Pack Size: 500g, 3kg, 5kg, 25kg

472 Sodium Dihydrogen Orthophosphate, Dihydrate

UNILAB

Description: colourless crystals or white, crystalline powder; odourless.

Assay.....98.0 - 100.5%

Acidity (pH, 5% w/v).....4.2 - 4.5

Clarity and colour.....To pass test

Loss on drying.....21.5 - 24.0%

Maximum limit of impurities(%)

Cl..... 0.020 Arsenic(As)..... 0.0002

 SO_4 0.030 HM (as Pb)..... 0.0010

Reducing Substances..... To pass test Iron(Fe)..... 0.0010

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

Sodium Dihydrogen Orthophosphate, Anhydrous

CAS 7558-80-7
 $\text{NaH}_2\text{PO}_4 = 119.98$

3964 Sodium Dihydrogen Orthophosphate, Anhydrous

UNIVAR

Assay.....99.0% min.

Maximum limit of impurities(%)

Insoluble matter 0.01
 Ca 0.005
 Cu 0.0002
 Fe 0.001
 K 0.002

Pb 0.0005
 Mg 0.002
 K 0.01
 SO_4 0.01

Conforms to ACS

Pack size: 500g, 5Kg

Sodium Dihydrogen Orthophosphate Monohydrate

CAS 7558-80-7
 $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O} = 137.99$

4745 Sodium Dihydrogen Orthophosphate Monohydrate

UNILAB

Assay.....98.0 – 100.5%.
 Identity (according to BP).....To pass test
 pH (5% solution).....4.2 – 4.5

Maximum limit of impurities(%)

Appearance and colour of solution.....To pass test
 Insoluble matter in H_2O 0.005
 Loss on drying at 130°C 11.5 – 13.5
 Organic volatile impurities.....To pass test
 Reducing substances to KMnO_4 To pass test
 Cl 0.014

SO_4 0.03
 Al, Ca and related elements.....To pass test
 Heavy Metals (as Pb) 0.001
 As 0.0002
 Fe 0.001

Chemical and physical parameters conform to BP and USP

Pack Size: 25Kg

Sodium Dioxide (See Sodium Peroxide Page 420)

Sodium Diphenylamine-4-Sulphonate

CAS 6152-67-6
 $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_4\text{SO}_3\text{Na} = 271.27$

3130 Sodium Diphenylamine-4-Sulphonate

OP

Transition EMF (@ pH=0).....+0.84 V
 Colour change: Oxidized (red-violet) to reduced (colourless)

Pack Size: 25g

Sodium Dithionite

CAS 7775-14-6
Na₂S₂O₄ + H₂O

U.N Number.....1384
ADG Class.....4.2
Packing Group.....II



481 Sodium Dithionite

TECHNICAL

Description: White powder.

Assay.....80% min.
Bulk Density.....(1.15-1.25Kg/L)
pH (5% Solution).....6 – 8

Pack Size: 500g

Sodium Dodecyl Sulphate (See Sodium Lauryl Sulphate Page 414)

Sodium Fluoborate

CAS 13755-29-8
NaBF₄ = 109.79

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



2400 Sodium Fluoborate

TECHNICAL

Assay.....about 97%

Maximum limit of impurities(%)

Fe.....	0.005	Cl.....	0.1
H.M. (as Pb).....	0.005	SO ₄	0.1

Pack Size: 250g

Sodium Fluoroborate (See Sodium Fluoborate Page 404)

Sodium Fluoride

CAS 7681-49-4
NaF = 41.99

U.N Number.....1690
ADG Class.....6.1
Packing Group.....III



1230 Sodium Fluoride

UNIVAR

Description: white crystalline powder.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol.....	0.02	SO ₄	0.01
L.O.D. (@150DegC).....	0.3	SO ₃	0.005
Titrateable acid.....	0.03 meq/g	Fe.....	0.001
Titrateable base.....	0.01 meq/g	H.M. (as Pb).....	0.001
Cl.....	0.001	Cu.....	0.0005
Na ₂ SiF ₆	0.1	K.....	0.01

Conforms to ACS

Pack Size: 500g, 5kg

1231 Sodium Fluoride UNILAB

Assay.....	98% min.	
Maximum limit of impurities(%)		
Cl.....	0.01	
SO ₄	0.5	Fe..... 0.02
H.M.(as Pb).....	0.01	Sodium hexafluorosilicate.....1

Pack Size: 500g, 5kg, 25kg

217 Sodium Fluoride (PCA) TECHNICAL

Assay.....	96% approx.
Maximum limit of impurities(%)	
Na ₂ SiF ₆ approx.....	1.5

Pack Size: 500g

Sodium Formaldehyde Sulphoxylate

CAS 6035-47-8
CH₃NaO₃S = 118.1

1233 Sodium Formaldehyde Sulphoxylate (Used as reducing agent) LABCHEM

Assay (iodometric, on anhydrous..... Substances)	85%	
Maximum limit of impurities(%)		
Sulphated ash (on anhydrous..... Substances)	51 – 66%	H ₂ O..... 8 – 15%

Pack Size: 500g

Sodium Formate

CAS 141-53-7
HCOONa = 68.01

2349 Sodium Formate UNIVAR

Description: Colourless crystals or crystalline powder		
Assay.....	99.0% min.	
Maximum limit of impurities(%)		
Insols.....	0.005	Ca..... 0.005
Cl.....	0.002	Fe..... 0.0005
SO ₄	0.002	H.M. (as Pb)..... 0.0005

Pack Size: 500g

1232 Sodium Formate UNILAB

Description: Colourless crystals or crystalline powder		
Assay.....	98.0% min.	
Maximum limit of impurities(%)		
Cl.....	0.005	H.M. (as Pb)..... 0.001
SO ₄	0.005	Fe..... 0.001

Pack Size: 500g

Sodium Gluconate

CAS 527-07-1
 $\text{CH}_2\text{OH}(\text{CHOH})_4\text{COONa} = 218.15$

734 Sodium Gluconate TECHNICAL

Assay.....approx 99.5%

Maximum limit of impurities(%)

As. 0.0003

H.M. (as Pb)..... 0.0020

Pb. 0.0010

Pack Size: 500g

Sodium Hexametaphosphate (See Sodium Polymetaphosphate Page 421)

Sodium Hexanitrocobaltate (See Sodium Cobaltinitrite Page 401)

Sodium Hydrogen Carbonate

CAS 144-55-8
 $\text{NaHCO}_3 = 84.01$

475 Sodium Hydrogen Carbonate UNIVAR

Description: Soft white crystalline powder.

Assay.....99.7 - 100.3%

Maximum limit of impurities(%)

Insol..... 0.015

Cl. 0.003

PO_4 0.001

Fe..... 0.001

S cpds (as SO_4)..... 0.003

K. 0.005

Mg..... 0.005

H.M. (as Pb)..... 0.0005

NH_4 0.0005

Cu..... 0.0005

Pb..... 0.0005

Ca..... 0.02

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

476 Sodium Hydrogen Carbonate UNILAB

Description: White, crystalline powder; odourless. Changes progressively into sodium carbonate when heated in the dry state or in solution.

Assay.....99.0 - 101.0%

pH (5% soln.).....8.6 max.

Maximum limit of impurities(%)

Clarity and colour of soln. To pass test

Cl. 0.015

SO_4 0.015

As. 0.0002

Ca. 0.01

H.M. (as Pb)..... 0.001

NH_4 0.002

Fe. 0.002

Chemical and physical parameters conform to BP

Pack Size: 1kg, 5kg, 25kg

Di-Sodium Hydrogen Citrate

477

Di-Sodium Hydrogen Citrate

UNILAB

Description: White powder; odourless or almost odourless.

Assay.....98.0 - 104.0%

Maximum limit of impurities(%)

Cl..... 0.0330

SO₄..... 0.12

As..... 0.0002

H.M. (as Pb)..... 0.0020

Oxalate..... 0.0150

Readily carbonisable subs. To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Di-Sodium Hydrogen Orthophosphate, Anhydrous

CAS 7558-79-4

Na₂HPO₄ = 141.96

621

Di-Sodium Hydrogen Orthophosphate Anhydrous

UNIVAR

Description: White powder. Suitable for buffer solutions.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol..... 0.01

L.O.D.@ 105°C..... 0.2

Cl..... 0.002

N cpds (as N)..... 0.002

K..... 0.02

SO₄..... 0.005

F..... 0.005

Cu..... 0.001

Pb..... 0.001

As..... 0.0003

H.M (as Pb)..... 0.001

Fe..... 0.002

Conforms to ACS and FCC

Pack Size: 500g, 5kg, 25kg

1234

Di-Sodium Hydrogen Orthophosphate Anhydrous

UNILAB

Assay.....99.0% min.

pH (5% soln. @ 25°C).....8.7 - 9.3

Maximum limit of impurities(%)

L.O.D..... 1.0

Cl..... 0.04

SO₄..... 0.05

H.M. & Fe (as Fe)..... 0.01

Pack Size: 500g, 5kg, 25kg

458

Di-Sodium Hydrogen Orthophosphate Anhydrous

TECHNICAL

Assay.....98.0% min.

Maximum limit of impurities(%)

As..... 0.0003

F..... 0.005

HM (as Pb)..... 0.001

Insol Sub..... 0.2

LOD (ANHYD)..... 5.0

Pack Size: 500g, 25kg

Di-Sodium Hydrogen Phosphate, Dihydrate

CAS 10028-24-7
 $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O} = 178.0$

3965 Di-Sodium Hydrogen Phosphate, Dihydrate UNIVAR

Description: White hygroscopic granular powder
 Assay.....99.5% min.

Maximum limit of impurities(%)

Fe.....	0.001	Insoluble matter.....	0.01
H.M (as Pb).....	0.001	SO ₄	0.005
Cl.....	0.001		

Pack size: 500g, 5Kg

3966 Di-Sodium Hydrogen Phosphate, Dihydrate UNILAB

Description: White crystalline powder
 Assay.....99.0% min.

Maximum limit of impurities(%)

Fe.....	0.002	Cl.....	0.01
Pb.....	0.002	SO ₄	0.01

Pack size: 500g, 5Kg

Di-Sodium Hydrogen Orthophosphate Dodecahydrate

CAS 10039-32-4
 $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O} = 358.15$

478 Di-Sodium Hydrogen Orthophosphate Dodecahydrate UNIVAR

Description: Colourless, efflorescent crystals.
 Assay.....99.0 - 101.0%
 pH (5% soln. @ 25°C).....8.7 - 9.3

Maximum limit of impurities(%)

Insol.....	0.003	H.M. (as Pb).....	0.0005
Cl.....	0.002	As.....	0.0002
N cpds (as N).....	0.0015	Monosodium phosphate	To pass test
SO ₄	0.005	Reducing subs.	To pass test
Fe.....	0.001		

Store below 25°C

Pack Size: 500g, 5kg, 25kg

358 Di-Sodium Hydrogen Orthophosphate Dodecahydrate UNILAB

Assay(after drying @ 130°C).....98 - 103%
 H₂O (@ 130°C).....57 - 61%
 pH (2% soln.).....8.7 - 9.4

Maximum limit of impurities(%)

Cl.....	0.002	H.M.(as Pb).....	0.002
SO ₄	0.01	Fe.....	0.002

Store below 25°C

Pack Size: 500g, 5kg, 25kg

Sodium Hydrogen Selenite

CAS 7782-82-3
 $\text{NaHSeO}_3 = 150.96$

U.N Number.....2630
 ADG Class.....6.1
 Packing Group.....I



2365 Sodium Hydrogen Selenite

LABCHEM

Assay.....97% min.
 pH (2%).....4-7

Pack Size: 25g, 500g

Sodium Hydrogen Sulphate

CAS 7681-38-1
 $\text{NaHSO}_4 = 120.06$

U.N Number.....3260
 ADG Class.....8
 Packing Group.....III



1540 Sodium Hydrogen Sulphate

TECHNICAL

Assay.....95% min.
 Acidity.....38-40%

Pack Size: 500g

Sodium Hydrogen Sulphate (Monohydrate) (See Sodium Bisulphate Monohydrate Page 394)

Sodium Hydrogen-L-Tartrate, Anhydrous

CAS 526-94-3
 $\text{C}_4\text{H}_5\text{NaO}_6 = 172.04$

1238 Sodium Hydrogen-L-Tartrate, Anhydrous

LABCHEM

Description: White crystalline powder
 Assay.....98% min.

Pack size: 500g



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Sodium Hydroxide

CAS 1310-73-2
NaOH = 40.00

U.N Number.....1823
ADG Class.....8
Packing Group.....II



482 Sodium Hydroxide Pellets

UNIVAR

Description: White deliquescent pellets.

Assay.....97.0% min.

Maximum limit of impurities(%)

Na ₂ CO ₃	1.0	SO ₄	0.003
Cl.....	0.005	H.M. (as Ag).....	0.002
N cpds (as N).....	0.001	Ca.....	0.002
PO ₄	0.001	Hg.....	0.00001
Fe.....	0.0005	K.....	0.02
Ni.....	0.0005	Silicate.....	0.003
Pb.....	0.0005	Al.....	0.00005
Cu.....	0.0005	Mg.....	0.002

Conforms to ACS

Pack Size: 500g, 2.5kg, 5kg, 10kg, 20kg

483 Sodium Hydroxide Pellets

UNILAB

Description: White, crystalline masses supplied as sticks, pellets or slabs; deliquescent. Readily absorbs carbon dioxide.

Assay (as NaOH).....97.0 - 100.5%

Maximum limit of impurities(%)

Na ₂ CO ₃	2.0	H.M. (as Pb).....	0.0020
Clarity & colour of solution	To pass test	Fe.....	0.0010
SO ₄	0.0050	Cl.....	0.0050

Chemical and physical parameters conform to BP

Pack Size: 500g, 2.5kg, 5kg, 20kg

951 Sodium Hydroxide Pellets

LABCHEM

Assay (as NaOH).....96.0% min.

Maximum limit of impurities(%)

SO ₄	0.01	H.M. (as Pb).....	0.01
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Pack Size: 500g

2534 Sodium Hydroxide, Mini Pearls

UNIVAR

Description: White deliquescent mini pearls.

Assay.....97.0% min.

Maximum limit of impurities(%)

Na ₂ CO ₃	1.5	Fe.....	0.002
Cl.....	0.015	Hg.....	0.00001
N cpds (as N).....	0.001	Heavy metals (as Ag).....	0.002
PO ₄	0.05	K.....	0.1
SO ₄	0.006	Ni.....	0.001
NH ₄ OH ppt.....	0.02		

Pack Size: 500g, 2.5kg, 5kg, 25kg

2535 Sodium Hydroxide, Mini Pearls UNILAB

Description: White, crystalline masses supplied as mini pearls; Readily absorbs carbon dioxide. deliquescent .
 Total alkali (as NaOH).....97.5 - 100.5%

Maximum limit of impurities(%)		Clarity & colour of soln.....To pass test
Na ₂ CO ₃	2.0	Fe..... 0.001
Cl.....	0.02	H.M. (as Pb)..... 0.002
SO ₄	0.005	

Pack Size: 500g, 5kg, 2.5kg, 25kg

301 Sodium Hydroxide, Mini Pearls TECHNICAL

Assay (typical).....98% min.
 Na₂CO₃ (typical).....0.4 - 0.6

Pack Size: 2kg

548 Sodium Hydroxide 60% w/v Solution TECHNICAL

Appearance: Clear colourless solution
 Density (@ 20°C).....1.435 - 1.452 g/mL
 Assay.....59-62% w/v

Pack Size: 2.5L

1719 Sodium Hydroxide 40% w/v Solution TECHNICAL

Appearance: Clear to Slightly hazy Liquid with no sediment
 Assay.....40 + 1% w/v @ 20°C

Pack Size: 200L

1720 Sodium Hydroxide 50% w/w Solution TECHNICAL

Appearance: Clear to Slightly hazy Liquid with no sediment
 Density.....about 1.5 g/mL
 Assay.....48-51% W/W

Pack Size: 200L

Sodium Hydroxide

CAS 1310-73-2

U.N Number.....1824
 ADG Class.....8
 Packing Group.....III



636 Sodium Hydroxide 1.000M Solution UNIVOL

Molarity.....0.995 - 1.005mol/L

Pack Size: 1L, 6 x1L, 2.5L, 20L

2539 Sodium Hydroxide 0.333 M Solution UNIVOL

The 0.333N volumetric solution is a ready-to-use titrant for the wine industry. Each mL of Cat No. 2539 is equivalent to 25mg (+/-0.5%) of tataric acid.

Molarity.....0.331 - 0.335mol/L

Pack Size: 2.5L

1387 Sodium Hydroxide 1.00 M Concentrate, Ampoule OP

Description: Plastic ampoule containing clear colourless liquid
1 mole (40.00g NaOH) to prepare 1L of 1N solution
Molarity.....0.0998 - 0.1002 mol/L

Pack size: Ampoule

1386 Sodium Hydroxide 0.100 M Concentrate, Ampoule OP

Description: Plastic ampoule containing clear colourless liquid
0.1 mole (4.000g NaOH) to prepare 1L of 0.1N solution
Molarity.....0.0998 - 0.1002 mol/L

Pack size: Ampoule

637 Sodium Hydroxide 0.100M Solution UNIVOL

Molarity.....0.0995 - 0.1005mol/L

Pack Size: 1L, 6x1L, 2.5L, 20L

2538 Sodium Hydroxide 0.05M Solution UNIVOL

Molarity.....0.0497 - 0.0503M

Pack Size: 5L

Sodium Hypochlorite Solution

CAS 7681-52-9

U.N Number.....1791
ADG Class.....8
Packing Group.....III



485 Sodium Hypochlorite Solution 12.5% w/v TECHNICAL

Theoretical decay in available chlorine at 24°C
After 2 weeks.....11.9%
After 8 weeks.....9.5%
After 12 weeks.....8.4%

Pack Size: 5L

4799 Sodium Hypochlorite 5% w/v Solution LABCHEM

Pack Size: 9x250mL, 4x5L

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Sodium Hypophosphite, Monohydrate

CAS 7681-53-0
 $\text{NaH}_2\text{PO}_2 \cdot \text{H}_2\text{O} = 105.99$

1240 Sodium Hypophosphite, Monohydrate LABCHEM

Assay (as $\text{NaH}_2\text{PO}_2 \cdot \text{H}_2\text{O}$).....99 - 105%

Maximum limit of impurities(%)
 H.M (as Pb)..... 0.001 Fe..... 0.001

Pack Size: 500g

Sodium Hyposulphite (See Sodium Thiosulphate Page 428)

Sodium Iodate

CAS 7681-55-2
 $\text{NaIO}_3 = 197.89$

U.N Number.....1479
 ADG Class.....5.1
 Packing Group.....II



3132 Sodium Iodate OP

Assay.....about 99%

Maximum limit of impurities(%)
 ClO_3 0.05 Fe..... 0.001
 SO_4 0.05 H.M.(as Pb)..... 0.002

Pack Size: 100g

Sodium Iodide

CAS 7681-82-5
 $\text{NaI} = 149.89$

486 Sodium Iodide UNILAB

Description: Colourless crystals or white crystalline powder; odourless, hygroscopic.
 Assay (after drying).....99.0 - 100.5%

Maximum limit of impurities(%)
 Clarity and colour of soln. To pass test SO_4 0.015
 L.O.D..... 3.0 S_2O_3 To pass test
 Alkalinity.....0.6 mmol OH Fe..... 0.002
 IO_3 To pass test H.M. (as Pb)..... 0.001

Pack Size: 100g, 500g, 5kg, 50kg

2486 Sodium Iodide LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)
 SO_4 0.015 H.M. (as Pb)..... 0.001
 Fe..... 0.002

Pack Size: 500g, 25kg

Sodium Lactate

CAS 72-17-3
CH₃CH(OH)COONa = 112.06

738 Sodium Lactate

UNILAB

Density.....1.372 - 1.380 @ 20°C
Assay.....69.0 - 71.0% w/w
pH (5% soln.l).....8.0 min.

Pack Size: 500mL, 20L

Sodium Lauryl Sulphate

CAS 151-21-3

U.N Number.....1325
ADG Class.....4.1
Packing Group.....III



1241 Sodium Lauryl Sulphate

TECHNICAL

Description: A mixture of sodium normal primary alkyl sulphates, consisting chiefly of sodium lauryl sulphate.

Pack Size: 500g, 5kg

Sodium Meta-Arsenite (See Sodium Arsenite Page 392)

Sodium Metabisulphite

CAS 7681-57-4
Na₂S₂O₅ = 190.11

487 Sodium Metabisulphite

UNIVAR

Description: White powder with a strong sulphurous odour.
Assay.....97.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Zn.....	0.001
Cl.....	0.05	H.M. (as Pb).....	0.001
S ₂ O ₃	0.05	As.....	0.00005
Cu.....	0.001	Fe.....	0.0005
Pb.....	0.001		

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

Laboratory Reagents

UNILAB

UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

488

Sodium Metabisulphite

UNILAB

Description: Colourless prismatic crystals or white or creamy white powder; odour, sulphurous. Freely soluble in water, slightly soluble in alcohol (96%).

Assay.....95.0 - 100.5%
pH (5% soln. @ 25°C).....3.5 - 5.0

Maximum limit of impurities(%)

Appearance of solution	To pass test	
Thiosulphates	To pass test	H.M(as Pb)..... 0.002
Arsenic..... 0.0005		Iron..... 0.002

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

Sodium Metaperiodate (See Sodium Periodate Page 420)

Sodium Metasilicate, Pentahydrate

CAS 6834-92-0
Na₂SiO₃·5H₂O = 212.14

U.N Number.....3253
ADG Class.....8
Packing Group.....III



707

Sodium Metasilicate, Pentahydrate

TECHNICAL

pH (1% soln).....~12.5
SiO₂ (typical).....27.8 - 29.2%
Na₂O (typical).....28.1 - 29.5%
H₂O.....43.0% min.

Maximum limit of impurities(%)

Fe..... 0.01	Insol..... 0.02
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Pack Size: 500g

Sodium Metavanadate

CAS 13718-26-8
NaVO₃ = 121.93

U.N Number.....3285
ADG Class.....6.1
Packing Group.....III



428

Sodium Metavanadate

UNIVAR

Assay (ex V).....98% min.

Maximum limit of impurities(%)

Cl..... 0.005	
SO ₄ 0.005	Fe..... 0.005
PO ₄ 0.005	Pb..... 0.005

Pack Size: 100g

3134

Sodium Metavanadate

LABCHEM

Description: White crystalline powder

Assay.....98% min.

Pack size: 100g

Sodium Molybdate

CAS 10102-40-6
 $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O} = 241.95$

360 Sodium Molybdate

UNIVAR

Description: White crystalline powder.

Assay.....99.5 - 103.0%
 pH (5% soln. @ 25°C).....7.0 - 10.5

Maximum limit of impurities(%)

Insol.....	0.005	NH ₄	0.001
Cl.....	0.005	Fe.....	0.001
PO ₄	0.0005	H.M. (as Pb).....	0.0005
SO ₄	0.015		

Conforms to ACS

Pack Size: 500g, 5kg

396 Sodium Molybdate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.02	PO ₄	0.005
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Pack Size: 500g

Sodium Nitrate

CAS 7631-99-4
 $\text{NaNO}_3 = 84.99$

U.N Number.....1498
 ADG Class.....5.1
 Packing Group.....III



490 Sodium Nitrate

UNIVAR

Description: Colourless, deliquescent crystals.

Assay.....99.0% min.
 pH (5% soln. @ 25°C).....5.5 - 8.3

Maximum limit of impurities(%)

Insol.....	0.005	SO ₄	0.003
Cl.....	0.001	Ca.....	0.005
IO ₃	0.0005	Mg.....	0.002
NO ₂	0.001	Fe.....	0.0003
PO ₄	0.0005	H.M. (as Pb).....	0.0005

Conforms to ACS

Pack Size: 500g, 5kg

491 Sodium Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	Fe.....	0.002
PO ₄	0.001	H.M. (as Pb).....	0.002
SO ₄	0.01		

Pack Size: 500g, 5kg, 25kg

Sodium Nitrite

CAS 7632-00-0
 $\text{NaNO}_2 = 69.00$

U.N Number.....1500
 ADG Class.....5.1
 SUB.....6.1
 Packing Group.....III



492

Sodium Nitrite

UNIVAR

Assay.....97.0% min.

Maximum limit of impurities(%)

Insol..... 0.01
 Cl..... 0.005
 SO_4 0.01
 Ca..... 0.01

Fe..... 0.001
 H.M. (as Pb)..... 0.001
 K..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

493

Sodium Nitrite

UNILAB

Assay.....97.0 - 100.5%
 L.O.D.....0.25% max.

Maximum limit of impurities(%)

H.M(as Pb)..... 0.002

Pb..... 0.001

Chemical and physical parameters conform to FCC

Pack Size: 500g, 5kg

Sodium Nitroferricyanide (See Sodium Nitroprusside Page 417)

Sodium Nitroprusside

CAS 13755-38-9
 $\text{Na}_2\{\text{Fe}(\text{CN})_5\text{NO}\} \cdot 2\text{H}_2\text{O} = 297.95$

U.N Number.....2811
 ADG Class.....6.1
 Packing Group.....III



494

Sodium Nitroprusside

UNIVAR

Description: Ruby-red crystals or crystalline powder.
 Used as TLC visualization agent.

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.01
 Cl..... 0.02

SO_4 0.01

Conforms to ACS

Pack Size: 100g, 500g

1243 Sodium Nitroprusside UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

SO₄..... 0.02

Pack Size: 500g

Sodium Ortho-Arsenate (See Sodium Arsenate Hyd Page 392)

Tri-Sodium Orthophosphate

CAS 7601-54-9

Na₃PO₄·12H₂O = 380.12

2220 Tri-Sodium Orthophosphate UNIVAR

Description: Moist colourless, crystals which may lose some water of crystallisation during storage.

Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.01

Excess NaOH..... 2.5

Cl..... 0.005

N cpds (as N)..... 0.001

SO₄..... 0.01

As..... 0.0005

Fe..... 0.001

H.M. (as Pb)..... 0.001

Store below 25°C

Pack Size: 500g, 5kg

811 Tri-Sodium Orthophosphate UNILAB

Assay(as Na₃PO₄·12H₂O).....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.1

SO₄..... 0.05

Fe..... 0.004

Store below 25°C

Pack Size: 500g, 25kg

Sodium Oxalate

CAS 62-76-0
(COONa)₂ = 134.00

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



1810 Sodium Oxalate, Certified Reference Standard UNIPURE

Assay (Perm.) after drying at 130°C 99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in H₂O..... 0.005

Darkened substances by H₂SO₄.....To pass test

Neutrality..... To pass test

SO₄..... 0.002

Cl..... 0.002

PO₄..... 0.005

NH₄..... 0.002

H.M. (as Pb)..... 0.002

Cu..... 0.001

Fe..... 0.0005

K..... 0.005

Ni..... 0.001

Pb..... 0.001

Pack Size: 100g

495 Sodium Oxalate UNIVAR

Description: White crystalline powder.

Assay.....99.9% min.

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.001
L.O.D.....	0.01	H.M. (as Pb).....	0.002
Neutrality	To pass test	K.....	0.005
Cl.....	0.002	NH ₄	0.002
SO ₄	0.002	Subs. darkened by hot H ₂ SO ₄	To pass test

Conforms to ACS

Pack Size: 100g, 500g

496 Sodium Oxalate UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	Fe.....	0.005
SO ₄	0.02	H.M. (as Pb).....	0.005

Pack Size: 500G

Sodium Perborate

CAS 10486-00-7
NaBO₃·4H₂O = 153.86

678 Sodium Perborate LABCHEM

Assay.....96.0% min.
Avail O₂.....10.0% min.
pH (1%).....10.2 min.

Pack Size: 500g

Sodium Perchlorate

CAS 7791-07-3
NaClO₄·H₂O = 140.46

U.N Number.....1502
ADG Class.....5.1
Packing Group.....II



1245 Sodium Perchlorate UNIVAR

Assay.....85.0 - 90.0% min.
pH (5%).....6.0 - 8.0

Maximum limit of impurities(%)

Cl.....	0.003	H.M (as Pb).....	0.0005
Ca.....	0.02	K.....	0.05
SO ₄	0.002	Insoluble matter.....	0.005
Fe.....	0.0005		

Conforms to ACS

Pack Size: 500g

Sodium Periodate

CAS 7790-28-5
NaIO₄ = 213.89

U.N Number.....1479
ADG Class.....5.1
Packing Group.....II



695 Sodium Periodate

UNIVAR

Description: White crystals or crystalline powder.
Assay(after drying).....99.8 - 100.3%

Maximum limit of impurities(%)

Insol..... 0.005
Other halogens (as Cl)..... 0.02

Mn..... 0.0003

Conforms to ACS

Pack Size: 100g, 250g, 5kg

1246 Sodium Periodate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Other halogens (as Cl)..... 0.2

Mn..... 0.001

Pack Size: 100g, 5kg

Sodium Peroxide

CAS 1313-60-6
Na₂O₂ = 77.98

U.N Number.....1504
ADG Class.....5.1
Packing Group.....I



497 Sodium Peroxide

UNIVAR

Description: Small pale yellow granules. If mixed with organic matter a fire may result.
Assay.....93.0% min.

Maximum limit of impurities(%)

Cl..... 0.002
N cpds (as N)..... 0.003
PO₄..... 0.0005

SO₄..... 0.001
Fe..... 0.005
H.M. (as Pb)..... 0.002

Conforms to ACS

Pack Size: 500g

Sodium Phosphate Monobasic (See Sodium Dihydrogen Orthophosphate Anhydrous Page 403)

Sodium Phosphate Dibasic (See Di-Sodium Hydrogen Orthophosphate Dodecahydrate Page 408)

Sodium Phosphate Tribasic (See tri-Sodium Orthophosphate Page 418)

Sodium Polymetaphosphate

CAS 10124-56-8
(NaPO₃)_n.Na₂O

474 Sodium Polymetaphosphate

TECHNICAL

Pack Size: 500g

Sodium Potassium Tartrate (See Potassium Sodium Tartrate Page 363)

Sodium Propionate

CAS 137-40-6
CH₃CH₂COONa = 96.06

434 Sodium Propionate

LABCHEM

Assay (after drying).....98%
pH (2% solution).....7.5 – 9.0

Maximum limit of impurities(%)

Cl..... 0.01 SO₄..... 0.02

Pack Size: 500g

Sodium Pyrosulphite (See Sodium Metabisulphite Page 414)

Tetra-Sodium Pyrophosphate

CAS 7722-88-5
Na₄P₂O₇·10H₂O = 446.06

499 Tetra-Sodium Pyrophosphate

UNIVAR

Description: Colourless crystals or crystalline powder.

Assay.....99.0% min.
pH (5% soln. @ 25°C).....9.5 – 10.7

Maximum limit of impurities(%)

Insol.....	0.01	Ca.....	0.01
CO ₃	To pass test	Cu.....	0.0005
Cl.....	0.005	Fe.....	0.0005
NO ₃	0.003	Mg.....	0.01
SO ₄	0.005	Ni.....	0.0005
As.....	0.0003	Pb.....	0.0005

Pack Size: 500g, 5kg

Sodium Pyrophosphate (See Tetra-Sodium Pyrophosphate Page 421)

Sodium Pyruvate

CAS 113-24-6
CH₃COCOONa = 110.05

2387 Sodium Pyruvate LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

H₂O (K.F)..... 0.5 H.M. (as Pb)..... 0.002

Pack Size: 25g

Sodium Salicylate

CAS 54-21-7
C₆H₄(OH)COONa = 160.11

1513 Sodium Salicylate UNILAB

Description: Colourless, small crystals or crystalline flakes, or a white, crystalline powder; odourless or with a faint, characteristic odour.

Assay(after drying).....99.0 - 101.0%

Maximum limit of impurities(%)

Clarity of soln. To pass test

Colour of soln. Pale yellow Cl..... 0.020

Acidity To pass test SO₄..... 0.060

L.O.D..... 0.5 H.M. (as Pb)..... 0.0020

Protect from light

Pack Size: 500g, 10kg

Sodium Selenate, Anhydrous

CAS 13410-01-0
Na₂SeO₄ = 188.94

U.N Number.....2630

ADG Class.....6.1

Packing Group.....I



2507 Sodium Selenate, Anhydrous UNILAB

Assay (Na₂SeO₄).....98.0%

Assay (Na).....23.85%

Maximum limit of impurities(%)

Cl..... 0.01 SO₄..... 0.1

Pack Size: 100G

Sodium Selenite

CAS 10102-18-8
 $\text{Na}_2\text{SeO}_3 = 172.94$

U.N Number.....2630
 ADG Class.....6.1
 Packing Group.....I



501 Sodium Selenite

TECHNICAL

Pack Size: 100g, 5kg

Sodium Selenite Acid (See Sodium Hydrogen Selenite Page 409)

Sodium Silicate Solution

CAS 1344-09-8

U.N Number.....3266
 ADG Class.....8
 Packing Group.....III



502 Sodium Silicate Solution Extra Pure (Water glass)

TECHNICAL

Assay of Na_2O7.5 – 8.5%
 Assay of SiO_225 – 28%
 pH Neutral
 Free Alkali To pass test

Pack Size: 2.5L GL

Sodium Silicofluoride

CAS 16893-85-9
 $\text{Na}_2\text{SiF}_6 = 188.06$

U.N Number.....2674
 ADG Class.....6.1
 Packing Group.....III



433 Sodium Silicofluoride

UNILAB

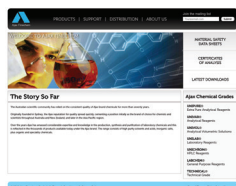
Assay.....98%

Maximum limit of impurities(%)

SO_4 0.2
 PO_4 0.2

Free acidity..... 0.2
 Moisture..... 1%

Pack Size: 1Kg



Your Window to Ajax Finechem

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Sodium Sulphate

CAS 7757-82-6
Na₂SO₄ = 142.04

137 Sodium Sulphate, Anhydrous, Granular UNIVAR

Description: Hygroscopic colourless crystalline granules.

Assay (after ign. @ 800°C).....99% min.
pH (5% soln. @ 25°C).....5.2 – 9.2
Particle size (0.25mm).....80% min.

Maximum limit of impurities(%)

Insol.	0.01	As.	0.0001
L.O.I. (@800 Deg.C).....	0.5	Fe.	0.0002
Cl.	0.001	Cu.	0.0002
Mg.	0.001	Pb.	0.0002
N cpds (as N).....	0.0005	Se.	0.003
H.M (as Pb).....	0.0005	L.O.D. (anhydrous).....	1.0
Ca.	0.01	PO ₄	0.001
K.	0.01		

Conforms to ACS & FCC

Pack Size: 500g, 3kg, 5kg, 25kg

146 Sodium Sulphate, Anhydrous, Granular UNILAB

Assay (after ign. @ 800°C).....99.0% min.
pH (5% soln. @ 25°C).....5.2 – 9.2

Maximum limit of impurities(%)

L.O.I. (@800°C).....	1.0	Fe.	0.002
N cpds (as N).....	0.005	H.M. (as Pb).....	0.005
Cl.	0.01		

Pack Size: 500g, 3kg, 5kg, 25kg

503 Sodium Sulphate, Anhydrous Powder UNIVAR

Description: Hygroscopic white powder.

Assay.....99.0% min.
pH (5% soln. @ 25°C).....5.2 – 9.2

Maximum limit of impurities(%)

Insol.	0.01	Ca.	0.01
L.O.I. (@800°C).....	0.5	Mg.	0.005
Cl.	0.001	Fe.	0.001
N cpds (as N).....	0.0005	K.	0.01
PO ₄	0.001	H.M. (as Pb).....	0.0005
As.	0.0001		

Conforms to ACS

Pack Size: 500g, 3kg, 5kg, 25kg

504 Sodium Sulphate, Anhydrous Powder UNILAB

Assay (after ignition @ 800°).....99.0% min.
pH (5% soln. @ 25°C).....5.2 – 9.2

Maximum limit of impurities(%)

L.O.I. (@800°C).....	1.0	Fe.	0.002
N cpds (as N).....	0.005	H.M. (as Pb).....	0.005
Cl.	0.01		

Pack Size: 500g, 5kg

506 Sodium Sulphate, Hydrated

UNIVAR

Colourless, transparent crystals or a white crystalline powder; odourless.

Assay (dried basis).....99.0 - 100.5%
L.O.D.52.0 – 57.0%

Maximum limit of impurities(%)

Insol..... 0.005
Cl..... 0.001
N cpds (as N)..... 0.0002
As..... 0.0001
Ca..... 0.01

Mg..... 0.01
R₂O₃..... 0.01
Acidity or alkalinity..... To pass test
Clarity & colour of solution..... To pass test

Chemical and physical parameters conform to BP

Store below 25°C

Pack Size: 500g, 5kg

Sodium Sulphide

CAS 1313-82-2
Na₂S.9H₂O = 240.18

U.N Number.....1849
ADG Class.....8
Packing Group.....II



508 Sodium Sulphide, Hydrated

UNIVAR

Description: Colourless or slightly yellow crystals.

Assay.....98.0 - 103.0%

Maximum limit of impurities(%)

SO₃ & S₂O₃ (as SO₄)..... 0.1
NH₄..... 0.005

Fe.....To pass test

Store below 4°C (refrigerate)
Conforms to ACS

Pack Size: 250g, 5kg, 25kg

658 Sodium Sulphide, Hydrated

UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

SO₃ & S₂O₃ (as SO₂)..... 1.5

Pack Size: 250g, 5kg

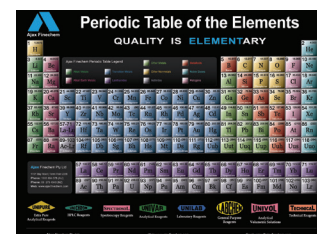
706 Sodium Sulphide, Hydrated, 60% Flake

TECHNICAL

Pack Size: 500g

Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at www.ajaxfinechem.com/Marketing or email your request to sales@ajaxfinechem.com



Sodium Sulphite, Anhydrous

CAS 7757-83-7
 $\text{Na}_2\text{SO}_3 = 126.04$

509 Sodium Sulphite, Anhydrous UNIVAR

Description: white crystalline powder.

Assay.....98.0% min.

Maximum limit of impurities(%)

Insol.....	0.005		
Free acid	To pass test	Zn.....	0.001
Titrateable free base.....	0.03 meq/g	H.M. (as Pb).....	0.001
Cl.....	0.02	Ca.....	0.01
As.....	0.00005	K.....	0.05
Fe.....	0.001	Cu.....	0.0005
Mg.....	0.001	Pb.....	0.0005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

510 Sodium Sulphite, Anhydrous UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

Cl.....	0.04		
Fe.....	0.004	H.M. (as Pb).....	0.005

Pack Size: 500g, 5kg, 25kg

Sodium Sulphocyanide (See Sodium Thiocyanate Page 428)

Sodium Tartrate

CAS 6106-24-7
 $\text{C}_4\text{H}_4\text{Na}_2\text{O}_6 \cdot 2\text{H}_2\text{O} = 230.08$

1811 Sodium Tartrate Dihydrate, Certified Reference Standard UNIPURE

Assay (Perchl. Ac.).....99.95 – 100.05%
 pH (5% soln.).....7.0 – 9.0

Maximum limit of impurities(%)

Insoluble matter in H_2O	0.005	As.....	0.00005
L.O.D at 105°C.....	$15.66 \pm 0.05\%$	Ca.....	0.005
SO_4	0.002	Cu.....	0.0005
Cl.....	0.0005	Fe.....	0.0005
PO_4	0.0005	K.....	0.002
NH_4	0.003	Ni.....	0.0005
H.M. (as Pb).....	0.0005	Pb.....	0.0005

Pack Size: 100g

513 Sodium Tartrate UNIVAR

Suitable for standardisation of Karl Fischer reagent.

Description: white crystalline powder.

Assay.....99.0 - 101.0%
 L.O.D. (@ 150°C).....15.61 – 15.71%
 pH (5% soln. @ 25°C).....7.0 – 9.0

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.01
Cl.....	0.0005	Fe.....	0.001
PO ₄	0.0005	H.M. (as Pb).....	0.0005
SO ₄	0.005	NH ₄	0.003

Conforms to ACS

Pack Size: 500g, 5kg

514 Sodium Tartrate UNILAB

Assay.....99.0% min.
 pH (5% soln. @25°C).....about 8.0

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.01
SO ₄	0.05	H.M. (as Pb).....	0.002

Pack Size: 5kg

Sodium Tetraborate

CAS 1303-96-4
Na2B4O7.10H2O = 381.37

460 Sodium Tetraborate UNIVAR

Description: Colourless crystals or white crystalline powder; efflorescent in dry air.

Assay.....99.5 - 103.0%
 pH (0.01mol/L @ 25°C).....9.15-9.20

Maximum limit of impurities(%)

Clarity & colour of soln.	To pass B.P.	As.....	0.0005
Insolubles.....	0.005	Ca.....	0.005
Cl.....	0.001	Fe.....	0.0005
PO ₄	0.001	H.M. (as Pb).....	0.001
SO ₄	0.005	NH ₄	0.001

Chemical and Physical parameters conform to BP
 Conforms to ACS

Pack Size: 500g, 5kg, 25kg

461 Sodium Tetraborate, Powder UNILAB

Assay.....98.0% min.
 pH (5% soln. @ 25°C).....9.0-9.6

Maximum limit of impurities(%)

Cl.....	0.02	Fe.....	0.008
SO ₄	0.05	H.M. (as Pb).....	0.002

Pack Size: 500g, 5kg, 25kg

Sodium Thiocyanate

CAS 540-72-7
NaSCN = 81.07

659 Sodium Thiocyanate UNIVAR

Description: Colourless, deliquescent crystals.
Assay.....98.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Sulphide (as S).....	0.001
Cl.....	0.02	Fe.....	0.0002
CO ₃ (as Na ₂ CO ₃).....	0.2	H.M. (as Pb).....	0.0005
SO ₄	0.01	NH ₄	0.002

Pack Size: 500g

516 Sodium Thiocyanate UNILAB

Assay (after drying).....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	SO ₄	0.1
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Pack Size: 500g

Sodium Thioglycollate

CAS 367-51-1
HSCH₂COONa = 114.10

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



2390 Sodium Thioglycollate UNILAB

White powder.
Assay.....85% min.
Store below 4°C

Pack Size: 100g

Sodium Thiosulphate

CAS 7772-98-7
Na₂S₂O₃·5H₂O = 248.18

517 Sodium Thiosulphate UNIVAR

Description: Colourless crystals.
Assay.....99.5 - 101.0%
pH (5% soln. @ 25°C).....6.0 - 8.4

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.0005
N cpds (as N).....	0.002	Pb.....	0.0005
Sulphide (S).....	0.0001	Mg.....	0.001
SO ₄ & SO ₃ (as SO ₄).....	0.1	K.....	0.001
Cu.....	0.0005	Ca.....	0.002

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 25kg

- 518** **Sodium Thiosulphate** UNILAB
 Assay.....98.0% min.
 Maximum limit of impurities(%)
 SO₄..... 0.5
 Pack Size: 500g, 5kg, 25kg
- 953** **Sodium Thiosulphate** LABCHEM
 Assay.....97.0% min.
 Maximum limit of impurities(%)
 SO₄..... 1.0
 Pack Size: 500g
- 505** **Sodium Thiosulphate, Anhydrous** TECHNICAL
 Assay.....97% min.
 Pack Size: 500g
- 638** **Sodium Thiosulphate 0.100 M Solution** UNIVOL
 Stabilized with sodium azide 0.01%. Used in iodometric analysis. For end-point detection, we recommend VITEX indicator.
 Molarity.....0.09950 - 0.1005 mol/L
 Pack Size: 1L, 6x1L
- 1388** **Sodium Thiosulphate 0.100 M Concentrate, Ampoule** OP
 Description: plastic ampoule containing clear colourless liquid
 0.1 mole (24.818g Na₂S₂O₃·5H₂O) to prepare 1L of 0.1N solution
 Molarity.....0.0998 - 0.1002 mol/L
 Pack size: Ampoule
- 1397** **Sodium Thiosulphate 0.200 M Solution** UNIVOL
 Stabilized with sodium azide 0.01%. Used in iodometric analysis. For end-point detection, we recommend VITEX indicator.
 Molarity.....0.1995 - 0.2005 mol/L
 Pack Size: 20L

Sodium Toluene-P-Sulphonchloroamide (See Chloramine T Page 134)

Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



Sodium Tungstate

CAS 10213-10-2
Na₂WO₄·2H₂O = 329.86

520 Sodium Tungstate

UNIVAR

Description: Colourless crystals or white crystalline powder.
Assay(after ignition).....99.0 - 101.0%

Maximum limit of impurities(%)

Insol.....	0.01		
Titrateable free base.....	0.02 meq/g	SO ₄	0.01
Mo.....	0.001	Fe.....	0.001
Cl.....	0.005	H.M(as Pb).....	0.001
As.....	0.0005	Nitrogen compounds(as N).....	0.001

Conforms to ACS

Pack Size: 100g, 500g, 5kg

521 Sodium Tungstate

UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

Cl.....	0.05	H.M.(as Pb), Fe.....	0.005
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Pack Size: 100g

Sodium Wolframate (See Sodium Tungstate Page 430)

Solid Green (See Malachite Green (CI 42000) Page 268)

Solochrome Black (See Eriochrome Black T Page 191)

Soluble Blue (See Methyl Blue Page 287)

Solvent Blue 3 (See Aniline Blue Spirit Soluble C.I.42775 Page 63)

Solvent Ether (See Anaesthetic Ether Page 175)

Solvent Yellow 94 (See Fluorescein Page 205)

Sorbic Acid

CAS 110-44-1
CH₃CH:CHCH:CHCOOH = 112.13

320 Sorbic Acid

UNILAB

Assay.....99.2% min.
M.P.133 - 135°C

Maximum limit of impurities(%)

Cl.....	0.015	As.....	0.0002
SO ₄	0.02	H.M. (as Pb).....	0.0010
H ₂ O.....	0.4	R.O.I.....	0.05

Pack Size: 100g, 5kg

D-Sorbitol, Powder

CAS 50-70-4
 $\text{CH}_2\text{OH}(\text{CHOH})_4\text{CH}_2\text{OH} = 182.17$

1585 D-Sorbitol, Powder UNILAB

White, crystalline powder.

Assay (anhydrous subst.).....97.0 – 102.0%

Conductivity.....20 microseimens/cm max.

Maximum limit of impurities(%)

Water..... 1.5

Clarity & colour To pass test

Pb..... 0.00005

Ni..... 0.0001

Related products To pass test

Reducing sugars (as glucose eqi.)..... 0.2

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Sorenson's Buffer

1849 Sorenson's Buffer Concentrate Solution LABCHEM

pH.....6.8

20 X Concentrate. Dilute 1 part with 19 parts of water

Pack Size: 1L, 5L

Stannic Chloride (See Tin (IV) Chloride Hydrated Page 451)

Stannic Oxide (See Tin (IV) Oxide Page 452)

Stannous Chloride (See Tin (II) Chloride Dihydrate Page 451)

Stannous Oxide (See Tin (II) Oxide Page 451)

Stannous Sulphate (See Tin (II) Sulphate Page 452)

Starch Soluble

CAS 9005-25-8

526 Starch Soluble UNIVAR

Description: White powder. Iodometric indicator.

Maximum limit of impurities(%)

R.A.I..... 0.4

Acidity..... 0.8 ml N

Sensitivity to iodine.....To pass test

Solubility..... To pass test

Pack Size: 100g, 500g, 5kg

1254 Starch Soluble UNILAB

Iodometric indicator.
Sensitivity to iodine.....To pass test

Maximum limit of impurities(%)
R.A.I..... 0.5

Pack Size: 500g

1547 Starch Maize LABCHEM

Unmodified food grade material.
pH.....6.5 - 7.5

Maximum limit of impurities(%)
H₂O..... 13 Protein..... 0.4

Pack Size: 25kg

1534 Starch Potato LABCHEM

Purified white powder
pH.....6.8

Maximum limit of impurities(%)
H₂O (L.O.D)......21

Pack Size: 500g

Stearic Acid, Powder

CAS 57-11-4
CH₃(CH₂)₁₆COOH = 284.49

1255 Stearic Acid, Powder UNILAB

C12-C14.....4% saturated.
C15-C1641% saturated.
C17-C18.....54% saturated.
C18.....1% unsaturated.

Maximum limit of impurities(%)
Iodine Value..... 1 Max Titre (°C).....54 - 57.5
Acid Value..... 200 - 210 Colour (5 1/4" LOV)..... 6.OY/1.0R

Pack Size: 500g, 25kg

Stearic Acid Butyl Ester (See Butyl Stearate Page 110)

Stearyl Alcohol (See 1-Octadecanol Page 314)

Strontium Carbonate

CAS 1633-05-2
SrCO₃ = 147.63

1516 Strontium Carbonate UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

Cl..... 0.005
SO₄..... 0.01
Ba..... 1
Ca..... 0.07

Fe..... 0.002
H.M. (as Pb)..... 0.002
Total N..... 0.1

Pack Size: 500g, 5kg

Strontium Chloride

CAS 10025-70-4
SrCl₂·6H₂O = 266.62

1257 Strontium Chloride UNIVAR

Description: Colourless crystals

Assay.....99.0% min.
pH (5% soln @ 25°C).....5.0 – 7.0

Maximum limit of impurities(%)

Insols..... 0.003
SO₄..... 0.005
NO₃..... 0.002
Ba..... 0.2
Ca..... 0.05

Fe..... 0.001
K..... 0.01
H.M. (as Pb)..... 0.001
Na..... 0.05

Pack Size: 500g

1258 Strontium Chloride UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

SO₄..... 0.06

H.M. & Fe (as Fe)..... 0.005

Pack Size: 500g

Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

Strontium Nitrate

CAS 10042-76-9
Sr(NO₃)₂ = 211.63

U.N Number.....1507
ADG Class.....5.1
Packing Group.....III



1517 Strontium Nitrate

UNIVAR

Description: White crystalline powder.

Assay.....99.0% min.
pH (5% @ 25°C).....5.0 – 7.0

Maximum limit of impurities(%)

Insol.....	0.01	Ca.....	0.05
L.O.D. (@ 105°C).....	0.1	Mg.....	0.10
Cl.....	0.002	Heavy Metals (as Pb).....	0.0005
SO ₄	0.005	Fe.....	0.0005
Ba.....	0.05	Na.....	0.10

Conforms to ACS

Pack Size: 500g, 5kg

527 Strontium Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	Ba.....	0.5
SO ₄	0.01	H.M. (as Pb).....	0.005

Pack Size: 500g, 5kg

Styrene, Monomer, Stabilized

CAS 100-42-5
C₆H₅CH:CH₂ = 104.15

U.N Number.....2055
ADG Class.....3
Packing Group.....III



473 Styrene, Monomer, Stabilized

UNILAB

Density(@25°C).....about 0.90g/mL
Assay.....99.7%

Store below 4° (refrigerate)

Pack Size: 500mL, 20L

Succinic Acid

CAS 110-15-6
 $(\text{CH}_2\text{COOH})_2 = 118.09$

528

Succinic Acid

UNIVAR

Description: Colourless crystals.

Assay.....99.0% min.

M.P.185 - 191°C

Maximum limit of impurities(%)

Sulph. ash..... 0.02

Cl..... 0.0005

SO₄..... 0.005

Fe..... 0.0005

H.M. (as Pb)..... 0.0005

NH₄..... 0.001

H₂O (K.F)..... 1

Pack Size: 500g, 5kg

Succinic Anhydride

CAS 108-30-5
 $\text{C}_4\text{H}_4\text{O}_3 = 100.07$

1260

Succinic Anhydride For Synthesis (For succinylation of proteins)

LABCHEM

Assay.....99% min.

M.P.117 - 119°C

Pack Size: 100g, 500g

Sucrose

CAS 57-50-1
 $\text{C}_{12}\text{H}_{22}\text{O}_{11} = 342.30$

530

Sucrose

UNIVAR

Description: Colourless crystals or white, crystalline powder. Used in electrophoresis. Added to PAGE buffers to improve the physical stability of gels.

Spec. rotn. (@25°C).....+66.3 +66.8°

Maximum limit of impurities(%)

Insol..... 0.005

L.O.D..... 0.03

R.A.I..... 0.01

Titrateable acid..... 0.0008 meq/g

Cl..... 0.005

SO₄..... 0.005

SO₃ (as SO₄)..... 0.005

Cd..... 0.00002

Fe..... 0.0003

H.M. (as Pb)..... 0.0005

Invert sugar..... 0.05

Ca..... 0.002

Cu..... 0.00002

Ni..... 0.00001

Pb..... 0.0001

Zn..... 0.00005

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 25kg

1784 **Sucrose** UNILAB

Spec. rotn. (@25°C).....+66 to +67°

Maximum limit of impurities(%)

Sulph. ash. 0.02
SO₄..... 0.01

H.M. (as Pb)..... 0.001
Acidity or alkalinity..... 0.25 mmol H or OH

Pack Size: 500g

954 **Sucrose** LABCHEM

Spec. rotn. (@25°C).....+65 to +68°

Maximum limit of impurities(%)

Cl. 0.01

H.M. (as Pb)..... 0.002

Pack Size: 500g

Sudan Black B (C.I. 26150)

CAS 4197-25-5
C₂₉H₂₄N₆ = 456.6

3264 **Sudan Black B (C.I. 26150)** LABCHEM

Description: Brownish black crystalline powder with metallic lustre
Absorption maximum (in 95% Ethanol)...596 – 605nm

Maximum limit of impurities(%)

L.O.D..... 5.0

Pack size: 25g

Sudan III (CI 26100)

CAS 85-86-9

3263 **Sudan III (CI 26100)** LABCHEM

Stain for microscopy.

Pack Size: 25g

Sugar Common (See Sucrose Page 435)

Sugar Of Lead (See Lead Acetate Page 252)

General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.
Discover more: www.ajaxfinechem.com/Labchem

Sulphamic Acid

CAS 5329-14-6
 $\text{H}_2\text{NSO}_3\text{H} = 97.09$

U.N Number.....2967
 ADG Class.....8
 Packing Group.....III



531 Sulphamic Acid

UNIVAR

Description: Colourless crystals.

Assay (after drying).....99.5% min.

Maximum limit of impurities(%)

R.O.I.....0.02

Cl.....0.001

SO₄.....0.1

H.M.(as Pb).....0.001

Fe.....0.003

Pack Size: 500g

532 Sulphamic Acid

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Sulph. ash.....0.1

L.O.D.....0.5

Pack Size: 500g, 5kg, 25kg

Sulphanilamide

CAS 63-74-1
 $\text{NH}_2\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2 = 172.21$

2380 Sulphanilamide

LABCHEM

M.P. (approx).....164-166°C

Assay (tit).....98% min.

Pack Size: 100g, 500g

Sulphanilic Acid

CAS 121-57-3
 $\text{NH}_2\text{C}_6\text{H}_4\text{SO}_3\text{H} = 173.19$

674 Sulphanilic Acid

UNIVAR

Reagent for NO₂

Description: White crystals or crystalline powder.

Sensitivity to NO₂ 1 part in 10 million

Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol. (Na₂CO₃ soln.).....0.02

R.A.I.....0.01

Cl.....0.002

NO₂.....0.00005

SO₄.....0.01

H.M (as Pb).....0.001

Conforms to ACS

Pack Size: 100g, 500g

Sulphosalicylic Acid

CAS 5965-83-3

$\text{HOCOC}_6\text{H}_3(\text{OH})\text{SO}_3\text{H}\cdot 2\text{H}_2\text{O} = 254.22$

533 Sulphosalicylic Acid

UNIVAR

Appearance: White crystals. Used as fixative and solvent in electrophoresis. With methyl green, 10% sulphosalicylic acid is used for fixing (staining) and destaining.

Assay.....99 - 101%
M.P.107-111°C

Maximum limit of impurities(%)

Sulph. Ash. 0.1
Cl. 0.002
Fe. 0.002

Salicylic acid 0.2
H.M (as Pb)..... 0.002

Conforms to ACS

Pack Size: 500g

Sulphur

CAS 7704-34-9

S = 32.06

U.N Number.....1350

ADG Class.....4.1

Packing Group.....III



1686 Sulphur, Powder

TECHNICAL

Assay.....99.3% min.

Maximum limit of impurities(%)

Ash 0.5
 H_2O 0.2

Acidity (as H_2SO_4)..... 0.1

Pack Size: 500g

786 Sulphur, Sublimed

TECHNICAL

Assay.....99.5% min.
Polymeric insol.....30% min.

Maximum limit of impurities(%)

Ash 0.2

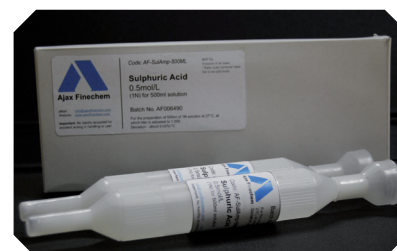
Acidity 0.15

Pack Size: 500g

Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



Sulphuric Acid

CAS 7664-93-9
H₂SO₄ = 98.08

U.N Number.....1830
ADG Class.....8
Packing Group.....II



1401 Sulphuric Acid, Extra Pure

UNIPURE

Assay.....94 - 98%

Maximum limit of impurities (ppb)

Al.....	5	Hg.....	1
Sb.....	1	Mo.....	1
As.....	1	Ni.....	1
Ba.....	1	K.....	1
Be.....	1	Se.....	10
Bi.....	1	Ag.....	1
Cd.....	1	Na.....	5
Ca.....	5	Sr.....	1
Cr.....	1	Th.....	1
Co.....	1	Sn.....	1
Cu.....	1	Ti.....	5
Fe.....	5	U.....	1
Pb.....	1	V.....	1
Li.....	1	Zn.....	1
Mg.....	1	Zr.....	1
Mn.....	1		

Pack size: 500mL, 2.5L

534 Sulphuric Acid

UNIVAR

Description: Clear, oily liquid. Hygroscopic. Free from suspended or insoluble matter.

Density.....about 1.84 g/mL

Assay.....95.0 - 98.0% w/w

Colour (APHA).....10 max.

Maximum limit of impurities(%)

Ignition residue,Na.....	0.0005	Cd.....	0.000005
Cl.....	0.00002	Pb.....	0.000005
NO ₃	0.00005	Mo.....	0.000005
Subs. red KMnO ₄ (as SO ₂).....	0.0002	Ni.....	0.000005
Al.....	0.00001	Co.....	0.000002
Cr.....	0.00001	Cu.....	0.000002
Mg.....	0.00005	Mn.....	0.000002
Zn.....	0.00005	Sr.....	0.000002
K.....	0.00005	Hg.....	0.000005
Ca.....	0.0001	As.....	0.000001
Se.....	0.0001	Fe.....	0.00002
NH ₄	0.0002	Heavy Metals (as Pb).....	0.0001
Ba.....	0.000005		

Conforms to ACS

Pack Size: 500mL, 2.5L, 3.8L, 340kg

955 Sulphuric Acid

LABCHEM

Assay.....94.0% w/w min.

Maximum limit of impurities(%)

Cl.....	0.001	Heavy Metals (as Pb).....	0.001
---------	-------	---------------------------	-------

Pack Size: 500mL, 2.5L GL, 2.5L PL

535 Sulphuric Acid 98% TECHNICAL

Pack Size: 2.5L

1598 Sulphuric Acid, 90% For Milk Testing LABCHEM

S.G. @ 20°C.....1.812 - 1.818g/mL

Pack Size: 2.5L

1599 Sulphuric Acid, 94% For Milk Testing LABCHEM

Assay.....93.0 - 94.5% w/w

Pack Size: 2.5L, 15L

Sulphuric Acid 50% w/w

CAS 7664-93-9
H₂SO₄ = 98.08

U.N Number.....2796
ADG Class.....8
Packing Group.....II



808 Sulphuric Acid 50% w/w UNIVAR

Density.....about 1.40g/mL
Assay.....49 - 51%

Pack Size: 2.5L

Sulphuric Acid 10% w/w

CAS 7664-93-9
H₂SO₄ = 98.08

U.N Number.....2796
ADG Class.....8
Packing Group.....II



2433 Sulphuric Acid 10% w/w UNILAB

Useful for general laboratory reagent purposes.
Description: Clear, colourless liquid
Assay.....9.5 - 10.5% w/w
Density (@ 20°C).....1.062 - 1.072 g/mL

Pack size: 20L

Sulphuric Acid

CAS 7664-93-9
H₂SO₄ = 98.08

1373 Sulphuric Acid 0.05MOL Concentrate 0.1N, Ampoule OP

Description: Plastic ampoule containing clear colourless liquid
0.05 mole (4.904g H₂SO₄) to prepare 1L of 0.1N solution
Molarity.....0.0497 - 0.0503 mol/L

Pack size: Ampoule

1375 Sulphuric Acid 0.5MOL Concentrate 1.0N, Ampoule *OP*

Description: Plastic ampoule containing clear colourless liquid
0.5 mole (49.039g H₂SO₄) to prepare 1L of 1N solution
Molarity.....0.497 - 0.503 mol/L

Pack size: Ampoule

639 Sulphuric Acid 0.1N Solution *UNIVOL*

Normality.....0.0995 – 0.1005 N
Molarity.....0.0497 - 0.0503 mol/L

Pack Size: 2.5L

647 Sulphuric Acid 1.000N Soln *UNIVOL*

Normality.....0.995 - 1.005 N
Molarity.....0.495 - 0.505mol/L

Pack Size: 2.5L

661 Sulphuric Acid 0.020N Soln *UNIVOL*

Normality.....0.020N

Pack Size: 6X1L

Sulphuric Acid Diethyl Ester (See Diethyl Sulphate Page 177)

TALC

CAS 14807-96-6

1284 TALC *TECHNICAL*

Bulk Density (approx).....0.9g/mL

Maximum limit of impurities(%)

L.O.I.(typical).....	5.3	Fe ₂ O ₃ (typical).....	1.0
SiO ₂ (typical).....	61.7	CaO (typical).....	0.4
Al ₂ O ₃ (typical).....	0.8	MgO (typical).....	30.4

Pack Size: 500g

Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

Tannic Acid

CAS 1401-55-4
 $C_{76}H_{52}O_{46} = 1701.22$

536 Tannic Acid UNILAB

Maximum limit of impurities(%)

L.O.D.	12.0	Gum or dextrin.	To pass test
Sulphated ash.....	1.0	Resinous substances.....	To pass test
As.....	0.0003	Organic volatile impurities.....	To pass test
H.M.(as Pb).....	0.004		

Chemical and physical parameters conform to BP and USP

Pack Size: 500g, 5kg

Tannin (See Tannic Acid Page 442)

Tartar Emetic (See Antimony Potassium (+) Tartrate Page 68)

(+)- Tartaric Acid

CAS 87-69-4
 $(CHOHCOOH)_2 = 150.09$

537 (+)- Tartaric Acid UNIVAR

Description: Colourless crystals or crystalline powder.
Assay(after drying).....99.5% min.

Maximum limit of impurities(%)

Insol.....	0.005	PO ₄	0.001
R.A.I.....	0.02	S cpds (as SO ₄).....	0.015
Cl.....	0.001	Fe.....	0.001
C ₂ O ₄	0.1	H.M. (as Pb).....	0.0005

Pack Size: 500g, 5kg, 25kgz

455 (+)-Tartaric Acid UNILAB

Description: Colourless crystals, or white, or almost white, crystalline powder; odourless or almost odourless.

Assay (after drying).....99.5 - 101.5%
Spec. rotn. (20% w/v in H₂O).....12.0 – 12.8°

Maximum limit of impurities(%)

Clarity and colour of soln.	To pass test	Oxalic Acid.....	0.035
Sulph. ash.....	0.1	SO ₄	0.0150
L.O.D.....	0.2	H.M. (as Pb).....	0.0010
Cl.....	0.010	Ca.....	0.02

Pack Size: 500g, 5kg

L(+)-Tartaric Acid Ammonium Salt (See Ammonium (+) Tartrate Page 61)

Tartaric Acid Disodium Salt (See Sodium Tartrate Dihyd Page 426)

Tartrazine (C.I. 19140)

CAS 1934-21-0
 $C_{16}H_9N_4Na_3O_9S_2 = 534.4$

3265 Tartrazine (C.I. 19140)

LABCHEM

Description: Orange-yellow coloured powder
 Assay.....99.0% min.

Maximum limit of impurities(%)

Fe.....	0.001	
As.....	0.0005	
Pb.....	0.001	Cu..... 0.001
Cl.....	0.005	SO ₄ 0.01

Pack size: 25g

TCA (See Trichloroacetic Acid Page 457)

TEA (See Triethanolamine Page 459)

TES, Biological Buffer

CAS 7365-44-8
 $C_6H_{15}NO_6S = 229.5$

3436 TES, Biological Buffer

UNIVAR

Description: White amorphous powder
 Assay.....99.0% min.
 pKa (@20°C).....7.5
 Melting Point.....225°C

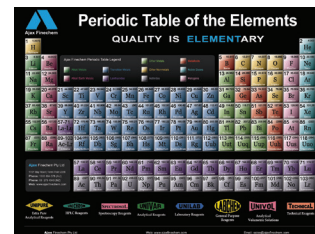
Maximum limit of impurities(%)

Mg.....	0.0005	Cu.....	0.0005
Ca.....	0.001	Cd.....	0.0005
Fe.....	0.0005	SO ₄	0.005
Cl.....	0.2	L.O.D. (110°C).....	0.5
Na.....	0.02	R.O.I (as SO ₄).....	0.2
Mn.....	0.0005		

Pack size: 100g, 1KG

Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at www.ajaxfinechem.com/Marketing or email your request to sales@ajaxfinechem.com



Tellurium (Metal) Powder

CAS 13494-80-9
Te = 127.60

U.N Number.....3288
ADG Class.....6.1
Packing Group.....III



423 Tellurium (Metal) Powder

LABCHEM

Assay.....99.9% min.

Pack Size: 100g

Tert-Butanol (See 2-Methylpropan-2-ol Page 294)

Tert-Butyl Alcohol (See 2-Methylpropan-2-ol Page 294)

2,6-Di-Tert-Butyl-P-Cresol (See Butylated Hydroxy Toluene Page 112)

Sym-Tetrabromoethane

CAS 79-27-6
CHBr₂CHBr₂ = 345.65

U.N Number.....2504
ADG Class.....6.1
Packing Group.....III



802 SYM-Tetrabromoethane

UNILAB

Density @ 20°C.....2.95 - 2.97g/mL
Assay.....98-5%
Colour.....APHA 75 max

Pack Size: 500mL

1,1,2,2-Tetrabromoethane (See Sym-Tetrabromoethane Page 444)

Tetrabutylammonium Hydrogen Sulphate

CAS 32503-27-8
(CH₃CH₂CH₂CH₂)₄ NHSO₄ = 339.54

1352 Tetrabutylammonium Hydrogen Sulphate

UNICHROM

Assay.....99.0% min

Optical Absorbance of 10% in water at:

210nm.....0.05
220nm.....0.04
230nm.....0.03
260nm.....0.02

Pack size: 10g

Tetrachloroethylene

CAS 127-18-4
 $\text{CCl}_2:\text{CCl}_2 = 165.83$

U.N Number.....1897
 ADG Class.....6.1
 Packing Group.....III



1281 Tetrachloroethylene

UNILAB

Density.....about 1.62g/mL
 R.Iabout 1.502
 B.R.(95% min.).....120 – 122°C

Maximum limit of impurities(%)
 Non-vol..... 0.01

Pack Size: 500mL, 2.5L

Tetraethylammonium Bromide

CAS 71-91-0
 $(\text{C}_2\text{H}_5)_4\text{NBr} = 210.16$

2453 Tetraethylammonium Bromide

UNILAB

Assay.....98% min.
 pH (10% soln.).....4.5 – 6.5

Maximum limit of impurities(%)
 Sulph. ash..... 0.05

Pack Size: 100g

Tetrahydrobenzene (See Cyclohexene Page 163)

Tetrahydrofuran

CAS 109-99-9
 $\text{C}_4\text{H}_8\text{O} = 72.11$

U.N Number.....2056
 ADG Class.....3
 Packing Group.....II



2317 Tetrahydrofuran

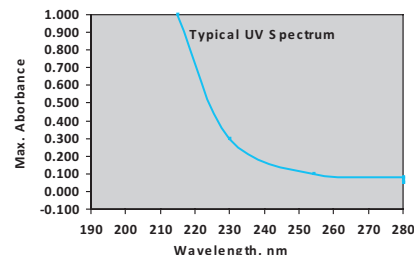
UNICHROM

Description:clear liquid, Stabilized with BHT.
 Assay (GLC).....>99.7%

Maximum limit of impurities(%)
 Non vol..... 0.001
 Acidity.....0.06 mmol H
 H_2O (by K.F.)..... 0.05

U.V. Absorbance:

λ (nm)	215-210	254	280
Max. abs.	1.00	0.30	0.05



Suggested Applications:
 Specially purified grade packed under nitrogen and filtered through 0.45 micron filter for HPLC and GPC.

Pack Size: 2.5L

446

Tetrahydrofuran

SPECTROSOL

Density.....0.889 g/mL
 M.P.-108°C
 B.P.66°C
 Assay (GC).....99.8% min.
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.02
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum

To Pass test

Max. UV. Absorbance:

λ (nm)	250	260	280	300
Absorbance	0.22	0.12	0.022	0.009

540

Tetrahydrofuran

UNILAB

Density.....about 0.89g/mL
 R.I.about 1.407
 Assay (GC).....99.8% min.
 Water.....0.03% max.

Maximum limit of impurities(%)

Peroxides..... 0.005

Pack Size: 500mL, 2.5L, 20L

1,2,3,4-Tetrahydro Naphthalene

CAS 119-64-2

Synonyms:Tetraline; THN

 $C_{10}H_{12}$ = 132.21

U.N Number.....3082

ADG Class.....9

Packing Group.....III



1280

1,2,3,4-Tetrahydro Naphthalene

LABCHEM

Assay.....98% min.
 Density @ 20°C.....0.967 - 0.969

Pack Size: 500 mL

Tetrahydro-1,4-Oxazine (See Morpholine Page 298)

Tetraline (See 1,2,3,4-Tetrahydro Naphthalene Page 446)

Tetramethylammonium Hydroxide 25%

CAS 75-59-2

 $(CH_3)_4NOH$ = 91.15

U.N Number.....1835

ADG Class.....8

Packing Group.....II



2427

Tetramethylammonium Hydroxide 25%

LABCHEM

Aqueous solution
 Assay (acidimetric).....25% min.
 Density.....about 1.03 g/mL

Pack size: 100mL

Tetramethyleneglycol (See 1,4- Butanediol Page 107)

TFA (See Trifluoroacetic Acid Page 460)

Thioglycolic Acid

CAS 68-11-1
HSCH₂COOH = 92.12

U.N Number.....1940
ADG Class.....8
Packing Group.....II



545 Thioglycolic Acid

UNILAB

Reagent for Fe Sensitivity to Fe 1 part in 25 million

Density.....about 1.33g/mL
Assay(ex acid).....95.0% min.

Pack Size: 100mL, 500mL

Thioglycolic Acid Sodium Salt (See Sodium Thioglycollate Page 428)

Thionin

CAS 78338-22-4
Synonym: Lauth's Violet
C₁₄H₁₃N₃O₂S = 287.34

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



420 Thionin For Microscopy C.I. 52000 (For metachromatic stains according to Ehrlich) LABCHEM

Dye content.....85% min.
Absorption (in water).....598 – 660 nm max.

Pack Size: 5g

Thiourea

CAS 62-56-6
CS(NH₂)₂ = 76.12

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



546 Thiourea

UNILAB

Assay (after drying).....98.0% min.

Maximum limit of impurities(%)
Sulph. ash.....0.1

Pack Size: 500g, 5kg

THN (See 1,2,3,4-Tetrahydro Naphthalene Page 446)

DL-Threonine

CAS 80-68-2
 $C_4H_9NO_3 = 119.1$

3904 DL-Threonine UNIVAR

Description: White crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

Ammonium (NH_4)..... 0.01 H.M (as Pb)..... 0.001

Pack size: 25g

L-Threonine

CAS 72-19-5
 $C_4H_9NO_3 = 119.1$

3903 L-Threonine UNIVAR

Description: White crystalline powder

Assay.....99.0% min.

Specific rotation.....-26.0 to -29.0°

Maximum limit of impurities(%)

H.M (as Pb)..... 0.002

As 0.0003

L.O.D..... 0.2

Pb..... 0.001

R.O.I..... 0.1

Pack size: 25g

Thymol

CAS 89-83-8
 $(CH_3)_2CHC_6H_3(CH_3)OH = 150.22$

2328 Thymol LABCHEM

M.P.about 50°C

Pack Size: 100g

Thymol Blue

CAS 76-61-9
 $C_{27}H_{30}O_5S = 466.60$

700 Thymol Blue LABCHEM

Indicator for pH and for non-aqueous titrations.

Maximum limit of impurities(%)

Visual transition interval:

(Acid range)..... 1.2 (red) to 2.8 (yellow)

(Alkaline range)..... 8.0 (yellow) to 9.2 (blue)

Pack Size: 5g

Thymolphthalein

CAS 125-20-2
C₂₈H₃₀O₄ = 430.52

2343 Thymolphthalein LABCHEM

pH indicator.

Maximum limit of impurities(%)

Insol Matter	To pass test	
Clarity of soln	To pass test	Visual transition interval.....pH 8.8 – 10.5

Pack Size: 5g, 1kg

Thymolsulfonephthalein (See Thymol Blue Page 449)

Tin Standard

U.N Number.....3264
ADG Class.....8
Packing Group.....III



2649 Tin 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Tin standard, ready for use.
Sn in 0.5% Hydrochloric acid.

Pack Size: 100mL

2625 Tin Standard SPECTROSOL

A 1000 ppm Tin standard, ready for use.
Each mL contains 1.00+/- 0.005mg of Sn in 10% Hydrochloric acid 32%.

Pack Size: 100mL

Tin

CAS 7440-31-5
Sn = 118.69

745 Tin Granulated LABCHEM

Maximum limit of impurities(%)

Bi.....	0.02	
Cu.....	0.01	Pb..... 0.05
Fe.....	0.02	Sb..... 0.05

Pack Size: 100g

1528 Tin Powder LABCHEM

Pack Size: 500g

Tin(II) Chloride, Hydrated

CAS 7772-99-8
 $\text{SnCl}_2 \cdot 2\text{H}_2\text{O} = 225.63$

U.N Number.....3260
 ADG Class.....8
 Packing Group.....III



523 Tin(II) Chloride, Hydrated

UNIVAR

Description: Colourless crystals.

Assay.....98.0 - 103.0%

Maximum limit of impurities(%)

Sol. (in HCl)

To pass test

SO_4

To pass test

Fe.....0.003

Ca.....0.005

Pb.....0.01

K.....0.005

Na.....0.01

Conforms to ACS

Pack Size: 100g, 500g

524 Tin(II) Chloride, Hydrated

UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

SO_40.02

Pack Size: 500g, 5kg

Tin(IV) Chloride, Hydrated

CAS 10026-06-9
 $\text{SnCl}_4 \cdot 5\text{H}_2\text{O} = 350.58$

U.N Number.....2240
 ADG Class.....8
 Packing Group.....III



1253 Tin(IV) Chloride, Hydrated

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

SO_40.025

Fe.....0.005

Na.....0.01

K.....0.01

Pb.....0.005

Pack Size: 100g, 500g

Tin(II) Oxide

CAS 21651-19-4
 $\text{SnO} = 134.70$

2347 Tin(II) Oxide

LABCHEM

Assay (typical).....95% min.

Maximum limit of impurities(%)

Assay of SnO_25.0

Pack Size: 100g

Tin(IV) Oxide

CAS 18282-10-5

Synonym: Stannic oxide

SnO₂ = 150.71

2394 Tin(IV) Oxide

LABCHEM

Assay of SnO₂.....99.9%

Pack Size: 250g

Tin(II) Sulphate

CAS 7488-55-3

SnSO₄ = 214.75

525 Tin(II) Sulphate

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Insol.....0.1

As.....0.01

Sb.....0.01

Pack Size: 500g

Tin Tetrachloride (See Tin (IV) Chloride Hydrated Page 451)

Tiron

CAS 149-45-1

C₆H₄Na₂O₈S₂ = 314.20

404 Tiron Metal (pM) indicator (Reagent for Fe, Mo and Ti)

LABCHEM

Pack Size: 10g

Tisab II Buffer

2541 Tisab II Buffer

LABCHEM

Total Ionic Strength Adjustment Buffer solution for use with ion selective electrodes. Contains sodium acetate, acetic acid, sodium chloride, CDTA.

pH.....5.0 - 5.5

Pack Size: 500mL, 5L, 20L

Titan Yellow

CAS 1829-00-1

Synonyms: Direct yellow 9; Thiazole yellow

C₂₈H₁₉N₅Na₂O₆S₄ = 695.73

480 Titan Yellow C.I. 19540 (Reagent for magnesium)

LABCHEM

pH.....12.0 (yellow) - 13.0 (red)

Absorption.....402 nm max.

Pack Size: 10g

Titanium(III) Trichloride 20% w/w Solution in 2 N HCl

CAS 7705-07-9
TiCl₃ = 154.26

3165 Titanium(III) Trichloride 20% w/w Solution in 2 N HCl

OP

Pack Size: 250mL

Titanium Dioxide

CAS 13463-67-7
TiO₂ = 79.90

547 Titanium Dioxide

UNILAB

A white or almost white powder; odourless.

Assay.....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity & colour of solution To pass test

L.O.D. (@ 105DegC)..... 0.5

L.O.I. (@ 1000DegC)..... 0.5

Acid-soluble matter..... 0.5

Water-soluble matter..... 0.25

Acidity/alkalinity..... 1.0 mmol H or OH

Sb..... 0.005

As..... 0.0001

Ba To pass test

Fe..... 0.005

Pb..... 0.002

H.M(as Pb)..... 0.002

Organic volatile impurities To pass test

Chemical and physical parameters conform to BP & USP

Pack Size: 500g, 5kg, 25kg

Titanium (IV) Oxide (See Titanium Dioxide Page 453)

1854 TLC Aluminium Plates, Silica Gel 60 F254

AJAX

Contains fluorescent indicator

Plate dimension.....20 cm x 20 cm

Typical specifications:

Particle size.....5 - 17 µm

Mean pore diameter.....60 Å

Specific Pore Volume.....0.75 ml/g

Specific Surface (BET).....about 500 m²/g

Pack Size: 25 Sheets

1855 TLC Aluminium Plates, Silica Gel 60

AJAX

Does not contain fluorescent indicator

Plate dimension.....20 cm x 20 cm

Typical specifications:

Particle size.....5 - 17 µm

Mean pore diameter.....60 Å

Specific Pore Volume.....0.75 ml/g

Specific Surface (BET).....about 500 m²/g

Pack Size: 25 Sheets

1853 **TLC Glass Plates, Silica Gel 60 F254** AJAX

Contains fluorescent indicator
 Plate dimension.....20 cm x 20 cm
 Layer thickness.....0.25mm

Pack Size: 25 sheets

1852 **TLC Glass Plates, Silica Gel 60** AJAX

Does not contain fluorescent indicator
 Plate dimension.....20 cm x 20 cm
 Layer thickness.....0.25mm

Pack Size: 25 Sheets

1858 **TLC Polyester Plates, Silica Gel 60** AJAX

Does not contain fluorescent indicator
 Plate dimension.....20 cm x 20 cm

Typical specifications:
 Particle size.....5 - 17 µm
 Mean pore diameter.....60 Å
 Specific Pore Volume.....0.75 ml/g
 Specific Surface (BET).....about 500 m²/g

Pack Size: 25 Sheets

1859 **TLC Polyester Plates, Silica Gel 60 F254** AJAX

Contains fluorescent indicator
 Plate dimension.....20 cm x 20 cm

Typical specifications:
 Particle size.....5 - 17 µm
 Mean pore diameter.....60 Å
 Specific Pore Volume.....0.75 ml/g
 Specific Surface (BET).....about 500 m²/g

Pack Size: 25 Sheets

Toluene

CAS 108-88-3
C6H5CH3 = 92.14

U.N Number.....1294
 ADG Class.....3
 Packing Group.....II



246 **Toluene** SPECTROSOL

Density.....0.867 g/mL
 M.P.-95°C
 B.P.110.6°C
 Assay (GC).....99.8% min.
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)
 Water (by Coulometry)..... 0.01
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum	To Pass test			
Max. UV. Absorbance:				
λ(nm)	320	330	340	350
Absorbance	0.05	0.022	0.018	0.009

551 **Toluene** UNIVAR

Description: Clear liquid, characteristic odour
 Assay (G.C.).....99.5% min
 Colour (APHA).....10 max.
 R.I.1.4950 – 1.4970

Maximum limit of impurities(%)		
R.A.E.....	0.001	Cu..... 0.000002
S cpds (as S).....	0.003	Mn..... 0.000002
H ₂ O.....	0.03	Ni..... 0.000002
Subs. darkened by H ₂ SO ₄	To pass test	Sr..... 0.000002
Al.....	0.000005	Ca..... 0.00002
Cd.....	0.000005	Fe..... 0.00001
Pb.....	0.000005	Mg..... 0.00001
Ba.....	0.000002	K..... 0.00001
Cr.....	0.000002	Zn..... 0.00001
Co.....	0.000002	Na..... 0.00005

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

552 **Toluene** UNILAB

Density.....about 0.86g/mL
 B.R.(95% min.).....109 – 111°C

Maximum limit of impurities(%)		
Non-vol.....	0.005	S cpds (as S)..... 0.003

Pack Size: 500mL, 2.5L, 20L, 200L

1553 **Toluene** TECHNICAL

Assay.....97% min.
 Density (@ 15°C).....0.865 – 0.875g/mL

Pack Size: 2.5L

Toluene-4-Sulphonic Acid

CAS 104-15-4
 CH₃C₆H₄SO₃H = 172.22

U.N Number.....2585
 ADG Class.....8
 Packing Group.....III



2329 **Toluene-4-Sulphonic Acid** UNILAB

Melting point approx.....102°C.
 Assay.....95% min.

Maximum limit of impurities(%)		
Sulph. ash.....	0.2	Free H ₂ O (K.F)..... 2
Free acid.....	3	

Pack Size: 250g

p-Toluenesulfonyl Chloride

CAS 98-59-9

Synonym: Tosyl chloride
 $C_7H_7ClO_2S = 190.65$

U.N Number.....3261

ADG Class.....8

Packing Group.....II



1279 p-Toluenesulfonyl Chloride For Synthesis

LABCHEM

Assay.....98%

M.P.65 – 68°C

Pack Size: 500g

Toluidine Blue (CI 52040)

CAS 92-31-9

3268 Toluidine Blue (CI 52040)

LABCHEM

Stain for microscopy. Used as a stain for acid mucopolysaccharides, oligodeoxynucleotides, RNA and RNase.

Pack Size: 10g, 25g

p-Toluidine

CAS 106-49-0

Synonyms: 4-Methylaniline; 4-Aminotoluene
 $C_7H_9N = 107.16$

U.N Number.....3451

ADG Class.....6.1

Packing Group.....II



744 p-Toluidine (Reagent for carboxylic and sulphonic acids)

UNIVAR

Pack Size: 500g, 5kg

Assay 99% min.

M.P. 42.0 – 44.0°C

Maximum limit of impurities(%)

Insoluble matter (dil. HCl)..... 0.01

Sulphated ash..... 0.02

p-Nitrotoluene $CH_3C_6H_4NO_2$ 0.001

Toluene ($C_6H_5CH_3$)..... 0.1

m-Toluidine ($CH_3C_6H_4NH_2$)..... 0.3

o-Toluidine ($CH_3C_6H_4NH_2$)..... 0.1

Pack Size: 100g

A-Tolunitrile (See Benzyl Cyanide Page 87)

Toxic Acid (See Maleic Acid Page 268)

Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: www.ajaxfinechem.com/Univar

Trehalose

CAS 6138-23-4
 $C_{12}H_{22}O_{11} \cdot 2H_2O = 378.34$

484 Trehalose For Biochemistry LABCHEM

Assay.....99% min.
 M.P.210 – 215°C

Maximum limit of impurities(%)
 Cl. 0.005 Fe. 0.0005

Pack Size: 5g

Tribromomethane (See Bromoform Page 99)

Tributylamine

CAS 102-82-9
 Synonyms: Tri-n-butylamine
 $C_{12}H_{27}N = 185.36$

U.N Number.....2542
 ADG Class.....6.1
 Packing Group.....II



512 Tributylamine For Synthesis LABCHEM

Assay.....99% min.
 Density @ 20°C.....0.776 – 0.778

Maximum limit of impurities(%)
 H_2O 0.2

Pack Size: 500 mL

Trichloroacetaldehyde Hydrate (See Chloral Hydrate Page 134)

Trichloroacetic Acid

CAS 76-03-9
 $CCl_3COOH = 163.39$

U.N Number.....1839
 ADG Class.....8
 Packing Group.....II



558 Trichloroacetic Acid UNIVAR

Description: Colourless, deliquescent crystals or crystalline masses; odour pungent. Very acidic and corrosive. Used as a fixative and solvent in electrophoresis.

Assay.....99.0% min.

Maximum limit of impurities(%)
 R.A.I..... 0.03 Fe. 0.001
 Cl. 0.001 H.M. (as Pb)..... 0.002
 NO_3 0.002 Subs. darkened by H_2SO_4 To pass test
 PO_4 0.0005 Clarity of Solution To pass test
 SO_4 0.02 Insol. 0.01

Conforms to ACS

Pack Size: 100g, 250g, 5kg

559 Trichloroacetic Acid

UNILAB

Description: Colourless, deliquescent crystals or crystalline masses; odour pungent. Very acidic and corrosive.

Assay.....98.0 - 100.5%

Maximum limit of impurities(%)

Clarity and colour of soln. To pass test

Sulph. ash. 0.1 Cl. 0.010

Pack Size: 250g, 5kg

TrichloroethyleneCAS 79-01-6
CCl₂:CHCl = 131.39

U.N Number.....1710

ADG Class.....6.1

Packing Group.....III

**1266 Trichloroethylene**

UNILAB

Appearance: Clear & colourless liquid

R.I.about 1.477

B.R. (95% min.).....86 – 87°C

Density.....1.460 – 1.465 g/mL

Maximum limit of impurities(%)

Acidity. 0.2 mmol H

Free Cl₂..... 0.001

Pack Size: 2.5L

1265 Trichloroethylene

TECHNICAL

Density.....about 1.46g/mL

Pack Size: 2.5L

Trichloromethane (See Chloroform Page 138)**Trichloromethyl Benzene** (see Benzotrichloride Page 85)**Tricine**CAS 5704-04-1
C₆H₁₃NO₅ = 179.20**3437 Tricine, Biological Buffer**

UNIVAR

Description: White powder

Assay.....99.0% min.

pKa.....7.9 – 8.3

pH (1% in H₂O).....4.0 – 6.0

Maximum limit of impurities(%)

Moisture..... 1.0

Pack size: 100g, 1KG

Tricresyl Phosphate

CAS 1330-78-5

Synonyms: Tritolyl phosphate

 $C_{21}H_{21}O_4P = 368.37$

U.N Number.....2574

ADG Class.....6.1

Packing Group.....II



377

Tricresyl Phosphate

LABCHEM

Wt per ml @ 20°C.....about 1.16g

Pack Size: 500 mL

Triethanolamine

CAS 102-71-6

 $N(CH_2CH_2OH)_3 = 149.19$

787

Triethanolamine

UNILAB

Clear, colourless or pale yellow liquid; odourless or almost odourless; hygroscopic.

Assay (nitrioltriethanol).....99- 103%.

Density.....1.120 – 1.130 g/mL

R.I. @ 20°C.....1.482 – 1.485

Total bases.....19.9 - 22.1 mmol HCl / 3 g

Maximum limit of impurities(%)

Sulph. ash..... 0.1

Pack Size: 500mL, 2.5L, 20L

Triethylamine

CAS 121-44-8

 $(C_2H_5)_3N = 101.19$

U.N Number.....1296

ADG Class.....3

SUB.....8

Packing Group.....II



1024

Triethylamine

UNILAB

Density.....about 0.73g/mL

R.I.about 1.400

Assay.....99.0% min.

Maximum limit of impurities(%)

Non-vol..... 0.01

Pack Size: 500mL, 2.5L

Spectroscopy Materials

SPECTROSOL

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: www.ajaxfinechem.com/Spectrosol

Triethylene Glycol

CAS 112-27-6

Synonyms: Triglycol

$C_{16}H_{14}O_4 = 150.18$

618 Triethylene Glycol For Synthesis

UNILAB

Assay.....98% min.
Density @ 20°C.....1.123 – 1.124
R.I. @ 20°C.....1.4559
Miscible with water in all proport.
Hygroscopic

Maximum limit of impurities(%)

H₂O..... 0.3

Pack Size: 500mL

Trifluoroacetic Acid

CAS 76-05-1

$C_2HF_3O_2 = 114.02$

U.N Number.....2699

ADG Class.....8

Packing Group.....I



2519 Trifluoroacetic Acid – For Peptide Work

LABCHEM

Density.....about 1.50 g/mL.
Specially pure for peptide work.
Assay (tit).....99.5% min.

Maximum limit of impurities(%)

H₂O..... 0.01

Pack Size: 500mL

Triglycol (See Triethylene Glycol Page 460)

3,4,5 Trihydroxybenzoic Acid (See Gallic Acid Monohydrate Page 211)

Triiodomethane (See Iodoform Page 239)

1,2,3-Triketohydrinedene Monohydrate (See Ninhydrin Page 307)

HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at www.ajaxfinechem.com/Unichrom

Trimethylchlorosilane

CAS 75-77-4
(CH₃)₃SiCl = 108.64

U.N Number.....1298
ADG Class.....3
SUB.....8
Packing Group.....II



2456 Trimethylchlorosilane

LABCHEM

Density.....about 0.86g/mL
R.I (approx).....1.387.
Assay (GC).....97% min.
B.R.55 - 57°C

Pack Size: 100mL

3,5,5-Trimethyl-2-Cyclohexen-1-One (See Isophorone Page 245)

2,2,4-Trimethylpentane

CAS 540-84-1
C₈H₁₈ = 114.23

U.N Number.....1262
ADG Class.....3
Packing Group.....II



2516 2,2,4-Trimethylpentane

UNICHROM

Description: Clear liquid; characteristic odour.
R.I1.389 – 1.392
Assay (GC).....>99.5%

Maximum limit of impurities(%)

R.A.E..... 0.001
Water-sol. titratable acid..... 0.03
H₂O..... 0.05

U.V. Absorbance:

λ(nm)	215	254	280
Max. abs.	1.00	0.02	0.01

Suggested Applications:
Specially purified grade filtered through 0.45 micron filter for HPLC and pesticide residue analysis.

Pack Size: 2.5L

592 2,2,4-Trimethylpentane

SPECTROSOL

Description: Clear liquid; characteristic odour.
For U.V. spectroscopy.
Colour (APHA).....10 max.
R.I1.39 – 1.392
Assay (GLC).....99.5% max.

Maximum limit of impurities(%)

R.A.E..... 0.001
Water-sol. titratable acid.....0.03 mmol H
S cpds (as S)..... 0.005

UV Absorbance:

λ (nm)	215	220	230	240	250-400
Max. abs.	1.0	0.4	0.1	0.04	0.015

Conforms to ACS

Pack Size: 500mL, 2.5L

348 **2,2,4-Trimethylpentane** UNIVAR

Description: Clear liquid with a characteristic odour.
 Assay.....99.0% min.
 Colour (APHA).....10 max.

Maximum limit of impurities(%)
 R.A.E..... 0.001
 Water-sol. titratable acid. 0.0003 meq/g S cpds (as S)..... 0.005

Conforms to ACS

Pack Size: 500mL, 2.5L

349 **2,2,4-Trimethylpentane** UNILAB

Density(@25°C).....about 0.69g/mL
 Assay.....98.5% min.

Maximum limit of impurities(%)
 Non-vol. 0.005
 Water. 0.05 Free acid (as CH₃COOH)..... 0.01

Pack Size: 2.5L, 20L

1,3,7 Trimethylxanthine (See Caffeine (Anhydrous) Page 118)

2,4,6-Trinitrophenol (See Picric Acid Page 337)

Tris(2-Hydroxyethyl)Amine (See Triethanolamine Page 459)

Tris (Hydroxymethyl) Methylamine

CAS 77-86-1
 C₄H₁₁NO₃ = 121.14

1812 **Tris (Hydroxymethyl) Aminomethane, Certified Reference Standard** UNIPURE

Assay(Perchl. Ac.)after drying at 105°C.99.95–100.05%
 Identity: IR to pass test
 Melting Range.....169-171°C
 pH of 0.05 mol/l sol.10.2 – 10.6

Maximum limit of impurities(%)
 Insoluble matter in H₂O. 0.005 Cr. 0.0001
 R.O.I. (as SO₄). 0.01 Cu. 0.0002
 ABS at λ290nm 40% sol. in water. 0.2 Fe. 0.0005
 Cl. 0.0005 K. 0.001
 H.M. (as Pb)..... 0.0005 Mg. 0.001
 As. 0.00005 Na. 0.001
 Ca. 0.001 Ni. 0.0005
 Cd. 0.0001 Pb. 0.0002
 Co. 0.0001 Zn. 0.0002

Pack Size: 100g

2311 **Tris(Hydroxymethyl) Methylamine** UNIVAR

Description: White crystals or crystalline powder. Suitable for buffer and enzyme work.

Assay (after drying).....99.8% min.
M.P.168-172°C

Maximum limit of impurities(%)

Insol.....	0.003	As.....	0.0001
Sulph. ash.....	0.01	Cu.....	0.0001
L.O.D.@ 105 Deg.C.....	0.5	Fe.....	0.0001
Cl.....	0.001	Pb.....	0.0002
SO ₄	0.005		

Pack Size: 100g, 500g, 5kg, 25kg

563 **Tris(Hydroxymethyl) Methylamine** UNILAB

Assay after drying.....99.0% min.
pH (5% in water).....10.5 – 11.5
M.P.168 – 172°C

Maximum limit of impurities(%)

L.O.D.1

Pack Size: 500g, 5kg

N-Tris(Hydroxymethyl)Methyl-2-Aminoethane Sulphonic Acid (See TES Page 443)

Triton X100

CAS 9002-93-1

U.N Number.....3082
ADG Class.....9
Packing Group.....III



1552 **Triton X100** LABCHEM

Non-ionic wetting agent.
Density (@25°C).....about 1.07g/mL
Solublizes protein aggregates, allowing better electrophoresis separations.

Pack Size: 500mL, 2.5L, 20L

Tritolyl Phosphate (See Tricresyl Phosphate Page 459)

Tropaelin OO

CAS 554-73-4

2352 **Tropaelin OO (CI 13080)** LABCHEM

pH indicator.

Pack Size: 25g

Trypan Blue

CAS 72-57-1

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



3269 Trypan Blue (CI 23850)

OP

Stain for microscopy.

Pack Size: 10g

DL-Tryptophan

CAS 54-12-6

$C_{11}H_{12}N_2O_2 = 204.2$

751 DL-Tryptophan, Suitable for bacteriology and tissue culture

LABCHEM

Assay (HClO₄ titration).....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Pack Size: 5g

L-Tryptophan

CAS 72-22-3

$C_{11}H_{12}N_2O_2 = 204.2$

3429 L-Tryptophan

UNILAB

Description: White crystalline powder

Assay.....98.0% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

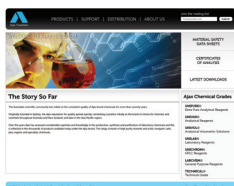
As..... 0.00015

L.O.D..... 0.5

Pack size: 25g

Tween 20 (See Ecoteric T20 Page 190)

Tween 80 (See Ecoteric T80 Page 190)



Your Window to Ajax Finechem

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Silicone Tubing, Tygon

AAA00007

Silicone Tubing, Tygon

TYGON

Description: TYGON B-44-4X FOOD MILK DAIRY TUBING
1/8" ID 1/4" OD 1/16" WALL

Meet FDA, 3-A and NSF criteria.

Roll: 50 feet

Suggested applications:

For aseptic filling, condiment dispensing, dairy processing, vitamin and flavour concentrate systems, soft-serve dispensing.

AAC00002

Silicone Tubing, Tygon

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/16" ID 1/8"
OD 1/32" WALL

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

AAC00006

Silicone Tubing, Tygon

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/8" ID 3/16"
OD 1/32" WALL

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

AAC00007

Silicone Tubing, Tygon

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/8" ID 1/4"
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

AAC00010

Silicone Tubing, Tygon

TYGON

Description: TYGON R-3603 LABORATORY TUBING 5/32" ID 9/32"
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

AAC00012**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 3/16" ID 5/16"
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00016**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 5/16"
OD 1/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00017**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 3/8"
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00018**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 7/16"
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00020**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 5/8"
OD 3/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00023**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 5/16" ID 1/2"
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00025**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 5/16" ID 5/8"
OD 5/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00030**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 3/8" ID 7/8"
OD 1/4" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC00037**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/2" ID 11/13"
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC02037**Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/2" ID 11/16"
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 100 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,
ideal for condensers, desiccators, gas lines and drain lines.

AAC1S1506 **Silicone Tubing, Tygon** **TYGON**

Description: TYGON R-3603 METRIC LABORATORY TUBING 8MM ID 12MM OD 2MM WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 15 M

Suggested applications:

For laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

AAG00012 **Silicone Tubing, Tygon** **TYGON**

Description: TYGON F-4040-A LUBRICANTS & FUEL TUBING 3/16" ID 5/16" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For small engine fuel lines, general automotive, recreational vehicles, lawn and garden equipment, coolant transfer, heating fuels, cutting compounds, polishing equipment, lubrication lines.

AAG00017 **Silicone Tubing, Tygon** **TYGON**

Description: TYGON F-4040-A LUBRICANTS & FUELS TUBING 1/4" ID 3/8" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For small engine fuel lines, general automotive, recreational vehicles, lawn and garden equipment, coolant transfer, heating fuels, cutting compounds, polishing equipment, lubrication lines.

AAG00029 **Silicone Tubing, Tygon** **TYGON**

Description: TYGON F-4040-A LUBRICANTS & FUEL TUBING 3/8" ID 5/8" OD 1/8" WALL.

Roll: 50 feet

Suggested applications:

For small engine fuel lines, general automotive, recreational vehicles, lawn and garden equipment, coolant transfer, heating fuels, cutting compounds, polishing equipment, lubrication lines.

AAX00004 **Silicone Tubing, Tygon** **TYGON**

Description: TYGON S-50-HL SURGICAL TUBING 3/32" ID 5/32" OD 1/32" WALL

Roll: 50 feet

Suggested applications:

For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.

AAX00009	Silicone Tubing, Tygon	TYGON
<p>Description: TYGON S-50-HL SURGICAL TUBING 5/32" ID 7/32" OD 1/32" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
AAX00011	Silicone Tubing, Tygon	TYGON
<p>Description: TYGON S-50-HL SURGICAL TUBING 3/16" ID 1/4" OD 1/32" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
AAX00016	Silicone Tubing, Tygon	TYGON
<p>Description: TYGON S-50-HL SURGICAL TUBING 1/4" ID 5/16" OD 1/32" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
AAX00017	Silicone Tubing, Tygon	TYGON
<p>Description: TYGON S-50-HL SURGICAL TUBING 1/4" ID 3/8" OD 1/16" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
AAX00022	Silicone Tubing, Tygon	TYGON
<p>Description: TYGON S-50-HL SURGICAL TUBING 5/16" ID 7/16" OD 1/16" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		

ABW00017

Silicone Tubing, Tygon

TYGON

Description: TYGON 3350 SANITARY SILICONE TUBING 1/4" ID 3/8" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For pharmaceutical and cosmetic processing, medical devices, cell harvest and media process systems, sterile fill lines, water injection (WFI) transfer, chemistry and blood analyzers, liquid chromatography.

ABX00007

Silicone Tubing, Tygon

TYGON

Description: VERSILIC SPX-50 HIGH STRENGTH SILICONE TUBING 1/18" ID 1/4" OD 1/16" WALL

Roll: 50 feet

Suggested applications:

For veterinary pharmaceuticals, respiratory and anesthesia equipment, sterile filling and processing, analytical instrumentation, cosmetic production, environmental remediation, beverage dispensing, food and dairy processing, appliance manufacturing, electronic equipment.

AED00017

Silicone Tubing, Tygon

TYGON

Description: TYGON 2075 ULTRA CHEMICAL RESISTANT TUBING 1/4" ID 3/8" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For fine specialty chemical production, battery and filling, clean and degreaser transfer system, X-ray processing, paint and solvent production, ink and printing fluid dispensing, hazardous materials handling, power generation sampling and drain lines.

AEM02011

Polyurethane Tubing, Tygon

TYGON

Description: TYGOTHANE C-210-A POLYURETHANE TUBING 3/16" ID 1/4" OD 1/32" WALL.

Roll: 100 feet

Suggested applications:

For food and cosmetic processing, abrasive and viscous transfer, lubrication and degreaser dispensing, pellet and powder transfer, pneumatic and sensory devices, instrumentation control lines, coolant recovery systems.

AEM02012

Polyurethane Tubing, Tygon

TYGON

Description: TYGOTHANE C-210-A POLYURETHANE TUBING 3/16" ID 5/16" OD 1/16" WALL.

Roll: 100 feet

Suggested applications:

For food and cosmetic processing, abrasive and viscous transfer, lubrication and degreaser dispensing, pellet and powder transfer, pneumatic and sensory devices, instrumentation control lines, coolant recovery systems.

AFL00012**Industrial Grade Tubing, Tygon**

TYGON

Description: NORPRENE A-60-G INDUSTRIAL TUBING 3/16" ID 5/16" OD 1/16" WALL (ROLL/50FT) (TYGON)

Roll: 50 feet

Suggested applications:

For soap and disinfectant dispensing, printing ink transfer, caustic dispensing, plating and etching chemicals, waste water sampling, glass and window wash systems, vacuum pumps, cable insulation, abrasion-resistant sleeving.

AFL00023**Industrial Grade Tubing, Tygon**

TYGON

Description: TYGON A-60-G NEOPRENE TUBING INDUSTRIAL GRADE 5/16" ID 1/2" OD 3/32" WALL.

Roll: 50 feet

Suggested applications:

For soap and disinfectant dispensing, printing ink transfer, caustic dispensing, plating and etching chemicals, waste water sampling, glass and window wash systems, vacuum pumps, cable insulation, abrasion-resistant sleeving.

AJD00012**Inert Tubing, Tygon**

TYGON

Description: TYGON SE-200 INERT TUBING 3/16" ID 5/16" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For Chemical processing, pharmaceutical processing and filling, paint and solvent and packaging, adhesive transfer lines, semiconductor processing, photographic processing equipment, beverage dispensing, ink and toner feed lines, fertilizer and pesticide distribution.

AN800007**Pump Tubing, Tygon**

TYGON

Description: TYGON XL-60 TYGOPRENE PUMP TUBING 1/8" ID 1/4" OD 16" WALL.

Roll: 50 feet

Suggested applications:

For ink transfer, soap and detergent delivery, cold or hot beverage transfer and dispensing, food processing, laboratory applications requiring long pump life and/or low extractable, general chemical transfer and processing.

Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.

Visit www.ajaxfinechem.com/Marketing to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

Dodeca-Tungstophosphoric Acid

CAS 12067-99-1
 $H_3PO_4 \cdot 12WO_3 \cdot xH_2O$

566 Dodeca-Tungstophosphoric Acid UNIVAR

Description: White or off-white crystals or crystalline powder.

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.002
Cl.....	0.001	K.....	0.03
NO ₃	0.002	Na.....	0.2
SO ₄	0.01	NH ₄	0.002
Cu.....	0.001	Pb.....	0.002

Pack Size: 100g, 250g

567 Dodeca-Tungstophosphoric Acid TECHNICAL

Pack Size: 100g

DL-Tyrosine

CAS 556-03-6
 $C_9H_{11}NO_3 = 181.2$

3439 DL-Tyrosine UNILAB

Description: White amorphous silky needles
Assay.....99.0% min.

Pack size: 25g

L-Tyrosine

CAS 60-18-4
 $C_9H_{11}NO_3 = 181.2$

3143 L-Tyrosine UNIVAR

Description: White crystalline powder
Assay.....99.0% min.

Maximum limit of impurities(%)

H.M. (as Pb).....	0.0005	SO ₄	0.01
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Pack size: 100g

Universal Indicator Solution

U.N Number.....1993

ADG Class.....3

Packing Group.....II



613 Universal Indicator Solution

LABCHEM

pH indicator solution.

Useful for demonstration purposes in schools etc.

pH 3.....Red

pH 4.....Orange

pH 5.....Orange/Yellow

pH 6.....Yellow/Green

pH 7.....Green

pH 8.....Dark Green

pH 9.....Turquoise

pH 10.....Blue

pH 11.....Dark Blue

Pack Size: 100mL, 500mL, 2.5L

2574 Universal Indicator Colour Charts

AJAX

Colour chart showing the nine colour tints when Ajax Cat 613 is added to buffers at 2% v/v concentration. Supplied in packs of 50.

Pack Size: x 50

Uracil

CAS 66-22-8

 $C_4H_4N_2O_2 = 112.09$

3144 Uracil For Biochemistry

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Ash..... 0.05%

Pack Size: 25g

Uranine (See Fluorescein Sodium Salt Page 206)

Urea

CAS 57-13-6
 $\text{NH}_2\text{CONH}_2 = 60.06$

817 Urea UNIVAR

Description: Slightly hygroscopic white crystals or crystalline powder. In electrophoresis preps., urea is used in conjunction with other reagents to completely solubilize protein aggregates.

Assay.....99.0 - 100.5%
M.P.132 - 135°C

Maximum limit of impurities(%)

Clarity & colour of sol.	To pass test	
Alkalinity	To pass test	Insoluble matter..... 0.01
Ammonium..... 0.05		R.A.I..... 0.01
H.M (as Pb)..... 0.001		Cl..... 0.0005
Biuret..... 0.1		SO ₄ 0.001
L.O.D..... 1.0		Fe..... 0.001

Conforms to ACS & BP

Pack Size: 500g, 5kg, 25kg

572 Urea UNILAB

Assay(after drying).....98% min.
M.P.131 - 135°C

Maximum limit of impurities(%)

Sulph. ash. 0.1

Pack Size: 500g, 5kg, 25kg

Urethane (See Ethyl Carbamate Page 197)

DL-Valine

CAS 516-06-3
 $\text{C}_9\text{H}_{11}\text{NO}_3 = 181.2$

3152 DL-Valine UNIVAR

Description: White Crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Pack size: 25g, 100g

Vanadium 1000ppm Single Element ICP Standard

U.N Number.....3264
 ADG Class.....8
 Packing Group.....II



2667 Vanadium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Vanadium standard, ready for use.
 V in 10% nitric acid. Traceable to NIST

Pack Size: 100mL

2595 Vanadium AAS Standard

SPECTROSOL

A 1000 ppm Vanadium standard, ready for use.
 Each mL contains 1.00 +/- 0.005mg of V in 10% nitric acid. Traceable to NIST

Pack Size: 500mL

Vanadium Pentoxide

CAS 1314-62-1
 $V_2O_5 = 181.88$

U.N Number.....2862
 ADG Class.....6.1
 Packing Group.....III



2395 Vanadium Pentoxide

LABCHEM

Assay.....99.5% min.

Maximum limit of impurities(%)

L.O.I..... 0.5

Fe..... 0.02

H.M. (as Pb)..... 0.02

Cl..... 0.02

SO₄..... 0.05

Pack Size: 100g

Vanadyl Sulphate

CAS 27774-13-6
 $VO_{SO_4} \cdot 5H_2O = 253.08$

3154 Vanadyl Sulphate

LABCHEM

Assay.....96% min.

Maximum limit of impurities(%)

Cl..... 0.004

Fe..... 0.002

Pack Size: 100g

Vanillin

CAS 121-33-5
 $\text{CH}_3\text{OC}_6\text{H}_3(\text{OH})\text{CHO} = 152.15$

574 Vanillin

UNIVAR

Description: White or cream-coloured, crystalline needles or powder, with a characteristic odour of vanilla.

Assay.....99.0% min.

M.P.81 – 83°C

Maximum limit of impurities(%)

Insol. (in alc.)..... 0.01

Sulph. ash..... 0.01

Pack Size: 100g

Villaumite (See Sodium Fluoride Page 404)

Vitamin B (See Nicotinic Acid Page 307)

Vitamin B5 (See Calcium-D-Pantothenate Page 125)

Vitamin B6 (See Pyridoxine Hydrochloride Page 371)

Vitamin C (See L-Ascorbic Acid Page 72)

Vitamin H (See D-Biotin Page 89)

Vitex

620 Vitex Indicator For Iodometry

LABCHEM

0.3g of dry VITEX added to the solution to be titrated gives a deeper blue than starch-iodine.
Sensitivity to iodine passes test.

Pack Size: 100g, 250g, 5kg

Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation

Simply visit: www.ajaxfinechem.com/Unipure



Water

CAS 7732-18-5
H₂O = 18.02

1604 Purified Water

TECHNICAL

Description: Clear Colourless, Odourless liquid
Specific Conductivity 20 umho max

Maximum limit of impurities(%)
UV absorbance (400-200nm). no peaks larger than 0.1 Abs

Pack Size: 2.5L, 20L, 200L

Water Glass (See Sodium Silicate Solution Page 423)

White Lead (See Lead Carbonate Basic Page 253)

White Vitriol (See Zinc Sulphate Page 484)

Wood Sugar (See D(+)-Xylose Page 480)

Wright's Stain Solution

U.N Number.....1230
ADG Class.....3
SUB.....6.1
Packing Group.....II



1851 Wright's Stain Solution

LABCHEM

0.25% in methanol
Pack Size: 1L, 5L

D-Xilopyranose (See D(+)-Xylose Page 480)

Xylene Cyanol

CAS 2650-17-1
C₂₅H₂₇N₂O₇S₂Na = 554.61

257 Xylene Cyanol Ff C.I. 43535

LABCHEM

Redox indicator. In electrophoresis, used as a tracking dye during the separation of nucleic acids. It is used to monitor electrophoresis of low M. W. nucleic acids.

Transition EMF (@ pH = 0).....+ 1.05 V
Colour change: Oxidized (orange) to reduced (green)

Pack Size: 25g

Xylenes

CAS 1330-20-7
 $C_6H_4(CH_3)_2 = 106.17$

U.N Number.....1307
 ADG Class.....3
 Packing Group.....III



576 Xylenes

UNIVAR

Description: Clear liquid which consists of the three isomers and ethylbenzene.

Assay(isomers + EBZ).....98.5% min.
 Colour (APHA).....10 max.

Maximum limit of impurities(%)

Non-vol.....	0.002	Pb.....	0.000002
S cpds (as S).....	0.003	Mn.....	0.000002
Subs. darkened by H_2SO_4	To pass test	Ni.....	0.000002
H_2O (K.F.).....	0.05	Sr.....	0.000002
Al.....	0.00001	Cd.....	0.000005
K.....	0.00001	Mg.....	0.000005
Ba.....	0.000002	Ca.....	0.000005
Cr.....	0.000002	Fe.....	0.000002
Co.....	0.000002	Na.....	0.000002
Cu.....	0.000002	Zn.....	0.000002

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

577 Xylenes

UNILAB

Density.....about 0.86g/mL
 B.R.(95% min.).....136 - 144°C

Maximum limit of impurities(%)

Non-vol.....	0.01	S cpds (as S).....	0.0005
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Pack Size: 2.5L, 10L, 20L

2342 Xylenes

LABCHEM

Description: Clear, colourless liquid with a characteristic odour.

Density @ 20°C.....about 0.86g/mL
 B.R.136 - 144°C

Maximum limit of impurities(%)

Sulphur compounds (as S).....	0.001	Foreign odour.....	To pass test
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Pack Size: 5L, 20L

1554 Xylenes

TECHNICAL

Density (@15°C)0.865 - 0.875g/mL
 B.R.137 - 143°C

Pack Size: 2.5L

5001 Xylenes Solvent for Histopathology

LABCHEM HP

Density.....about 0.86g/mL

Pack Size: 2.5L, 10L, 20L

p-Xylene

CAS 106-42-3

Synonyms: 1,4-Dimethyl benzene

 $C_8H_{10} = 106.17$

U.N Number.....1307

ADG Class.....3

Packing Group.....III

**3147 p-Xylene For Synthesis**

LABCHEM

Assay.....>99%
 Density @ 20°C.....0.860 – 0.862
 R.I. @ 20°C.....1.4958

Pack Size: 500mL

m-Xylene

CAS 108-38-3

Synonym: 1,3-Dimethylbenzene

 $C_8H_{10} = 106.17$

U.N Number.....1307

ADG Class.....3

Packing Group.....III

**3146 m-Xylene For Synthesis**

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

Free acid(HCl).....0.002

Ethylenebenzene.....0.1

o-Xylene.....0.5

p-Xylene.....0.3

Toluene.....0.1

Pack Size: 500mL

o-Xylene

CAS 95-47-6

Synonyms: 1,2-Dimethyl benzene

 $C_8H_{10} = 106.17$

U.N Number.....1307

ADG Class.....3

Packing Group.....III

**3145 o-Xylene For Synthesis**

LABCHEM

Assay.....>99%
 Density @ 20°C.....0.878 – 0.881
 R.I. @ 20°C.....1.5054

Pack Size: 500mL

Xylenol Orange

CAS 1611-35-4

 $C_{31}H_{32}N_2O_{13}S = 672.66$ **3148 Xylenol Orange**

LABCHEM

Metal indicator.

Pack Size: 1g

Xylol (See Xylene Page 478)

D(+)-Xylose

CAS 58-86-6
C₅H₁₀O₅ = 150.13

662 D(+)-Xylose

UNILAB

Description: Colourless needles or a white crystalline powder; odourless or almost odourless.

Spec.optical rotn.+18.5 to +19.5°

M.P.148 - 152°C

Maximum limit of impurities(%)

Colour & clarity of soln.....To pass test

Sulph. ash..... 0.1

L.O.D..... 0.5

Acidity.....0.4 mmol H

Cl..... 0.033

H.M.(as Pb)..... 0.002

Chemical and physical parameters conform to BP

Pack Size: 100g, 500g

Zinc 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



2651 Zinc 1000ppm Single Element ICP Standard

UNIPURE

Contains 1000 ppm Zn in 0.5% nitric acid.

Pack Size: 100 ml

2628 Zinc AAS Standard

SPECTROSOL

A 1000 ppm zinc standard, ready for use. Each mL contains 1.00 +/-0.005mg of Zn in 0.5% nitric acid.
Traceable to NIST

Pack Size: 500mL

Zinc, Powder

CAS 7440-66-6
Zn = 65.37

U.N Number.....1436

ADG Class.....4.3

Packing Group.....II



2312 Zinc, Powder

UNIVAR

Description: fine grey powder free from all but small aggregates.

Assay.....99.9% min.

Maximum limit of impurities(%)

Insol. (in acid)..... 0.05

N cpds (as N)..... 0.01

Fe..... 0.002

Subs.red.KMnO₄ (as O)..... 0.0015

Pb..... 0.003

Cd..... 0.003

Sn..... 0.001

Pack Size: 500g

538 Zinc, Powder

TECHNICAL

Pack Size: 500g

Zinc, Metal

CAS 7440-66-6
Zn = 65.39

675 Zinc (Metal) Granular Suitable for As estimation UNIVAR

Assay (by complexometry).....99.9% min.

Maximum limit of impurities(%)

Pb.....	0.005	Fe.....	0.002
Sn.....	0.001	Cd.....	0.0005
Cu.....	0.001	As.....	0.00001

Pack Size: 500g

1562 Zinc, Shot UNILAB

Assay.....99.9% min.

Maximum limit of impurities(%)

As.....	0.00001	Fe.....	0.02
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Pack Size: 500g

2391 Zinc, Foil LABCHEM

Maximum limit of impurities(%)

Iron.....	0.002
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Pack Size: 500g

Zinc Acetate

CAS 5970-45-6
(CH₃COO)₂Zn.2H₂O = 219.49

581 Zinc Acetate UNIVAR

Description: Colourless or white crystals with a faint odour of acetic acid.

Assay.....99.5% min.

pH (5% soln.).....6.0 – 6.6

Maximum limit of impurities(%)

Insol.....	0.003	Cu.....	0.0005
Cl.....	0.001	Fe.....	0.0005
N cpds (as N).....	0.002	K.....	0.005
SO ₄	0.005	Mn.....	0.001
As.....	0.00004	Na.....	0.005
Ca.....	0.002	Pb.....	0.001
Cd.....	0.001		

Pack Size: 500g, 5kg

Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: www.ajaxfinechem.com/Unilab

Zinc Bromide

CAS 7699-45-8
ZnBr₂ = 225.20

U.N Number.....2811
ADG Class.....6.1
Packing Group.....III



2468 Zinc Bromide

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

SO ₄	0.01	K.....	0.01
Ba.....	0.001	Mg.....	0.01
Ca.....	0.01	Na.....	0.01
Fe.....	0.001	Pb.....	0.005

Pack Size: 500g

Zinc Carbonate Basic

CAS 3486-35-9
Approx. ZnCO₃·2ZnO·3H₂O

1518 Zinc Carbonate Basic

UNILAB

Assay (as Zn).....53% min.

Maximum limit of impurities(%)

Cl.....	0.3	SO ₄	1.0
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Pack Size: 500g

Zinc Chloride

CAS 7646-85-7
ZnCl₂ = 136.28

U.N Number.....2331
ADG Class.....8
Packing Group.....III



1687 Zinc Chloride

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

SO ₄	0.05	Fe (typical).....	0.003
ZnO (typical).....	2	Cu (typical).....	0.001
Pb (typical).....	0.003		

Pack Size: 500g, 5kg, 25kg

959 Zinc Chloride

LABCHEM

Assay.....94% min.

Maximum limit of impurities(%)

SO ₄	0.1
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Pack Size: 500g

Zinc Hydroxide Carbonate (See Zinc Carbonate Page 482)

1270 Zinc Oxide

UNILAB

Assay(after ignition @ 500°C).....99.0 - 100.5%

Maximum limit of impurities(%)

L.O.I. (@500DegC)..... 1.0
CO₃ & Insol. (in HCl).....To pass test
Alkalinity..... 3 mmol OH
As..... 0.0005

Fe..... 0.0200
Pb..... 0.0050
Cd..... 0.0010

Chemical and physical parameters conform to BP

Pack Size: 500g

Zinc Stearate

CAS 557-05-1

550 Zinc Stearate Pure

LABCHEM

Assay (as Zn, on dried basis).....10.37 min.
Solubility..... Insoluble in Water
M.P.....118 – 122°C
Bulk Density.....0.18 gm/ml
Identification..... Complies

Maximum limit of impurities(%)

Free fatty acids..... 0.41
L.O.D..... 0.21

Ash content..... 13.54

Pack Size: 500g

Zinc Sulphate

CAS 7446-20-0
ZnSO₄.7H₂O = 287.54

U.N Number.....3077
ADG Class.....9
Packing Group.....III



583 Zinc Sulphate

UNIVAR

Description: Colourless, efflorescent crystals.

Assay.....99.0 - 103.0%
pH (5% soln. @ 25°C).....4.4 – 6.0

Maximum limit of impurities(%)

Insol..... 0.01
Cl..... 0.0005
Cd..... 0.0005
Cu..... 0.0005
Fe..... 0.0005
NO₃..... 0.002
As..... 0.0001

Ca..... 0.001
Pb..... 0.001
K..... 0.001
Na..... 0.005
NH₄..... 0.001
Mn..... 0.0003
Mg..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

584 **Zinc Sulphate** UNILAB

Description: Colourless transparent crystals, or a white crystalline powder; odourless. Efflorescent.

Assay.....99.0 - 104.0%
 pH (5% soln.).....4.4 – 5.6

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test

Cl..... 0.030 Fe..... 0.010

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

969 **Zinc Sulphate** LABCHEM

Assay.....98.0%

Maximum limit of impurities(%)

Mg..... 0.002 Cl..... 0.002

Pack Size: 500g

Zirconium Dioxide

CAS 1314-23-4
 ZrO₂ = 123.22

3149 **Zirconium Dioxide** UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

SiO₂..... 0.25 Fe (as Fe₂O₃)..... 0.07
 TiO₂..... 0.16 L.O.I. @ 1000°C..... 2.0 – 3.5

Pack Size: 500g

Zirconium (IV) Oxide Chloride (See Zirconyl(IV) Chloride Octohydrate Page 485)

Zirconyl(IV) Chloride Octohydrate

CAS 13520-92-8
 Cl₂ O Zr.8H₂O = 322.25

2466 **Zirconyl(IV) Chloride Octohydrate, 98+%** LABCHEM

Assay.....98.0% min.

Pack Size: 100g

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