Simplicity for Science

ATOM SCIENTIFIC

About Us

Atom Scientific is a specialised manufacturer of diagnostic reagents with over 50 years in delivering exceptional quality to the life science industry throughout the world

History

Established in 2009, Atom Scientific is a specialist manufacturer of diagnostic stains and reagents for Life Science Laboratories

As the business has grown it has organically grown its product range to incorporate a comprehensive range of chemicals to suit our customer's needs

Our Primary Aims are to deliver:

- **Quality**
- **Service**
- **Cost Effective Pricing**

Quality

Our Quality Management Systems are Certificated to **ISO9001:2008**

Our QA/Compliance Team ensure our products are fully auditable from raw material to finished product

Our Life Science Testing Laboratory is operated by experienced Life Scientists, ensuring our products are compliant to the requirements of **ISO15189**, saving our customers time and resources in compliance, whilst ensuring consistent quality

Facilities

In 2014, the company opened our current single site facility in Manchester, enabling Atom Scientific to significantly increase operational capacity, whilst ensuring compliance to all current and future legislation.

We specialise in finished product pack sizes from 10ml/10gm to 25L/25Kg and have manufacturing capacity for batches from 500ml - 5000L.

Our facilities can accomodate single bottle requirements up to multiple 1000's to meet any lead time requirement.

All chemicals and reagents offered by Atom Scientific are manufactured, packed and distributed on-site.

Our philosophy is to make science simple, we deliver high quality validated products, in fit for purpose packaging, safely shipped, at competitive prices, where you want them, when you need them

CE

ISOQAR REGISTERED
UKAS MANAGEMENT SYSTEMS 0026
Certificate No: 11337
ISO 9001

IVD

Contact Us

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Orders

Orders can be placed On-Line, by Email or by Fax.

orders@atomscientific.com

All orders must include Delivery and Invoice Address and product information as follows:

- Product Code
- Product Name
- Pack Size
- Qty
- Price

All prices on website or in price lists are quoted ex-works on an E,O&E basis.

Technical

Atom provide a Technical Resource on our website, where the following can be downloaded:

- Material Safety Data Sheet (MSDS)
- Certificate of Conformity
- Certificate of Analysis
- Product Protocols

If we hold a Technical email address for you, a full MSDS will be emailed automatically at point of despatch.

If you need technical assistance, please contact:

technical@atomscientific.com

ATOM SCIENTIFIC

ISO15189 compliant products ***simply*** delivering consistency and reliability to **Life Sciences**

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www.atomscientific.com

Specimen Buckets

Manufactured by Jokey Group - one of the leading manufacturers in the world in the field of plastic packaging development and production, Atom Scientific only offers the highest quality buckets suitable for storage and transport of Histological Specimens

Strong Handles come as standard on sizes above 1.56L

Other pack sizes available. See website for details

Code	Capacity	Dimensions (Diameter x Height)	Colour	Handle	Pack Size
RRPL250-50	250ml	96mm x 62mm	White	No	50 pack
RRPL500-100	500ml	118mm x 80mm	White	No	100 pack
RRPL1000-100	1L	118mm x 145mm	White	No	100 pack
RRPL1500-100	1.5L	146mm x 135mm	White	Yes	100 pack
RRPL2500-60	2.5L	200mm x 138mm	White	Yes	60 pack
RRPL5000-60	5L	225mm x 195mm	White	Yes	60 pack
RRPL10000-30	10L	291mm x 223mm	White	Yes	30 Pack
RRPL15000-10	16L	326mm x 249mm	White	Yes	10 Pack
RRPL25000-5	25L	340mm x 399mm	White	Yes	5 Pack

Screw Lid Specimen Jars

Manufactured from white polypropylene, these rigid sided jars provide a wide opening for ease of access, and are provided with a strong wadded lid to ensure sturdy seals for retention of liquid in transport or long term storage
Other pack sizes available

Code	Capacity	Dimensions	Colour	Pack
RRSL150-100	150ml	65mm x 50mm	White	100
RRSL250-100	250ml	65mm x 90mm	White	100
RRSL600-100	600ml	90mm x 95mm	White	100
RRSL1000-50	1L	110mm x 120mm	White	50

Honeypots

Manufactured from flexible PVC, these straight sided jars provide a wide opening for ease of access, and are provided with a strong wadded lid to ensure sturdy seals for retention of liquid in transport or long term storage
Other pack sizes available

Code	Capacity	Dimensions	Pack
PVC30-100	30ml	50mm (H) x 35mm (D)	100
PVC65-100	65ml	50mm (H) x 35mm (D)	100
PVC100-100	100ml	70mm (H) x 55mm (D)	100
PVC225-100	225ml	80mm (H) x 60mm (D)	100
PVC320-100	320ml	80mm (H) x 74mm (D)	100
PVC500-50	500ml	105mm (H) x 81mm (D)	50

Routine Fixatives

Atom Scientific are a specialist manufacturer of Fixatives Solution, for both Routine and Special Fixation in Histology and Cytology, offering the most comprehensive range available

Buffered Formalin 10%

A ready to use solution of 10% Neutral Phosphate Buffered Formalin, the most commonly used fixative in Histopathology
This formulation tends to prevent the formation of formalin pigment

Code	Pack
RRFF4000-E	1L
RRFF4000-F	2.5L
RRFF4000-G	5L
RRFF4000-4G	4x5L
RRFF4000-I	10L
RRFF4000-I-BB	10L Dispenser
RRFF4000-J	20L
RRFF4000-J-BB	20L Dispenser
RRFF4000-K	25L

Formal Saline 10%

A ready to use solution of 10% Formaldehyde in Isotonic Saline

Code	Pack
RRFF4001-E	1L
RRFF4001-F	2.5L
RRFF4001-G	5L
RRFF4001-4G	4x5L
RRFF4001-I	10L
RRFF4001-I-B	10L Dispenser
RRFF4001-J	20L
RRFF4001-J-I	20L Dispenser
RRFF4001-K	25L

Formaldehyde 37% ACS

The neat version of Formaldehyde for those wishing to make their own solutions
See Page 11 for full specification.

Code	Pack
GPC8044-E	1L
GPC8044-F	2.5L
GPC8044-G	5L
GPC8044-4G	4x5L

Buffered Formalin Concentrate

A 1:4 parts concentrate solution of Neutral Phosphate Buffered Formalin. Simply dilute for use

Code	Pack
RRFF5000-E	1L
RRFF5000-F	2.5L
RRFF5000-G	5L
RRFF5000-4G	4x5L
RRFF5000-I	10L
RRFF5000-I-B	10L Dispenser
RRFF5000-J-I	20L Dispenser

Formal Saline Concentrate

A 1:4 parts concentrate solution of Formal Saline in Isotonic Saline
Simply dilute for use

Code	Pack
RRFF5001-E	1L
RRFF5001-F	2.5L
RRFF5001-G	5L
RRFF5001-4G	4x5L
RRFF5001-I	10L
RRFF5001-I-B	10L Dispenser
RRFF5001-J-B	20L Dispenser

Special Fixatives

Alcoholic Formalin 10%

A denaturing fixative helpful for primary fixation especially of large fatty specimens

Code	Pack
RRFF9000-E	1L
RRFF9000-F	2.5L
RRFF9000-G	5L
RRFF9000-G-I	5L Dispenser

Alcoholic Formalin 20%

A denaturing fixative helpful for primary fixation especially of large fatty specimens

Code	Pack
RRFF9001-E	1L
RRFF9001-F	2.5L
RRFF9001-G	5L
RRFF9001-G-I	5L Dispenser

Bladder Fixative

A practical pre-mixed acidified methanol fixative solution used for rinsing of the bladder in urine cytology

Code	Pack
RRFF7002-E	1L
RRFF7002-F	2.5L
RRFF7002-3E-B	3L Dispenser
RRFF7002-G	5L
RRFF7002-G-I	5L Dispenser

ISO15189 compliant products ***simply*** delivering consistency and reliability to **Life Sciences**

Bouins Fixative

Ideal for fixation before trichrome stains, preserves glycogens but can lyse erythrocytes.

Stains bright yellow due to Picric Acid, and due to its acidic nature will slowly remove calcium and iron deposits

Code	Pack
RRFF5010-D	500ml
RRFF5010-E	1L
RRFF5010-F	2.5L
RRFF5010-G	5L
RRFF5010-G-I	5L Dispenser

Carnoys Fixative

Offers rapid fixation with good nuclear presentation whilst retaining glycogen

It lyses erythrocytes and dissolves lipids and can produce excessive hardening and shrinkage

Code	Pack
RRFF6000-E	1L
RRFF6000-F	2.5L
RRFF6000-G	5L

Davidsons Fixative

A rapid fixative which gives good nuclear detail with minimal formalin pigment

Particularly useful for preparing tumors, bone marrow specimens, gynecologic material, fatty breast, and medical biopsies

Code	Pack
RRFF4004-E	1L
RRFF4004-F	2.5L
RRFF4004-G	5L
RRFF4004-G-I	5L Dispenser

Special Fixatives

Lillies Fixative

A fast acting fixative due to acetic acid content, often used to fix cryostat sections

Code	Pack
RRSP661-E	1L
RRSP661-F	2.5L
RRSP661-G	5L
RRSP661-G-I	5L Dispenser

Paraformaldehyde Fixative pH 7.4

A specialist fixative mainly used for Renal biopsies

Code	Pack
RRFF7009-D	500ml
RRFF7009-E	1L

Paraformaldehyde 4% in 0.1M Phosphate Buffer pH 7.4

A methanol free fixative frequently used as a fixative for samples to be used in electron microscopy

Code	Pack
VM3322-C	250ml
VM3322-D	500ml
VM3322-E	1L

Urine Fixative

A cytology fixative ideal for use in urine cytology

Code	Pack
RRSP662-E	1L
RRSP662-F	2.5L
RRSP662-3E-B	3L Dispenser
RRSP662-G	5L
RRSP662-5E-B	5L Dispenser

Wolmans Fixative

A blend of glacial acetic acid and alcohol, used for optimal fixation of frozen section prior to staining

Code	Pack
RRFF4007-D	500ml
RRFF4007-E	1L
RRFF4007-12E	12x1L

NEW

Bag-In-Box Dispensers Now Available

Zinc Formalin Fixative

A routine fixative, denaturing your tissue specimens and achieving cellular rigidity without over hardening

It prevents excessive protein crosslinking responsible for masking the immunochemistry antigenic binding sites. This fixative will yield excellent results in routing H&E, special stains, enzymatic stains and immunochemical reactions

Code	Pack
RRFF8000-E	1L
RRFF8000-F	2.5L
RRFF8000-G	5L
RRFF8000-G-I	5L Dispenser

Tissue Marking Dyes

The Biomark Tissue Marking Dyes make marking margins of excised tissue specimens easier than ever before

Our dyes contain opaque pigments formulated for adherence to the tissue surface and the seven colours were selected to avoid confusion with routine histological stains

The viscosity allows an even, thin coating of pigment, penetrating the tissue surface slightly to allow it to remain visible through tissue processing. No secondary chemicals needed to fix dye to tissue

- **No Post Fixative Required**
- **Fast Drying - High Quality Opaque Pigments**
- **Can be used on Fresh or Frozen Specimens**
- **Maintains Brilliant Colour throughout Processing**

Biomark 5 Colour Kit

Contains:
Black, Blue, Green, Red, Yellow, Applicator Sticks

Code	Pack
BIOMARK5	5x50ml

Biomark 6 Colour Kit

Contains:
Black, Blue, Green, Red, Yellow, Orange, Applicator Sticks

Code	Pack
BIOMARK6	6x50ml

Biomark 7 Colour Kit

Contains:
Black, Blue, Green, Red, Yellow, Orange, Purple, Applicator Sticks

Code	Pack
BIOMARK7	7x50ml

Biomark Colours

Individual colours are available in a selection of refill pack sizes

		50ml	250ml	500ml
Description	Code	-A	-C	-D
BLACK	Biomblack	Δ	Δ	Δ
BLUE	Biomblue	Δ	Δ	Δ
GREEN	Biomgreen	Δ	Δ	Δ
YELLOW	Biomyellow	Δ	Δ	Δ
RED	Biomred	Δ	Δ	Δ
ORANGE	Biomorange	Δ	Δ	Δ
PURPLE	Biompurple	Δ	Δ	Δ

Biomark Applicator Sticks

Wooden Applicator sticks suitable for Biomark Tissue Marking Dyes

Code	Pack
BIOMAPPLIC-001	25
BIOMAPPLIC-002	250

Routine Decalcification

Atom Scientific are a specialist manufacturer of Decalcificaton Solutions, we offer a range of Routine Solution and a range of Special Solutions to comprehensively meet any decalcification requirements

Formic Acid 10%

A standard working solution of Formic Acid 10%, used as a simple and effective decalcifier, offering good control during the process

Code	Pack
RRDC6-E	1L
RRDC6-F	2.5L
RRDC6-3E-B	3L Dispenser
RRDC6-G	5L
RRDC6-G-I	5L Dispenser

Formic Acid 20%

A stronger working solution of Formic Acid 20%, offers quicker decalcification but it is more aggressive to the specimen than the 10% solution

Code	Pack
RRDC8-E	1L
RRDC8-F	2.5L
RRDC8-3E-B	3L Dispenser
RRDC8-G	5L
RRDC8-G-I	5L Dispenser

Hydrochloric Acid 10%

A Rapid decalcifier, exceeding end-point will impair staining

Formalin should be washed from specimen before placing in HCl to avoid the formation of bis-chloromethyl ether (a carcinogen)

Code	Pack
HCL10-E	1L
HCL10-F	2.5L
HCL10-G	5L

Kristensens Solution

A decalcifying fluid consisting of sodium formate and formic acid offering a gentle yet rapid decalcification of specimens

Code	Pack
RRDC5-E	1L
RRDC5-F	2.5L
RRDC5-3E-B	3L Dispenser
RRDC5-G	5L
RRDC5-G-I	5L Dispenser

NEW

Bag-In-Box Dispensers Now Available

Nitric Acid 5%

This is a Rapid Decalcifier, however exceeding end-point will impair staining

Code	Pack
RRDC11-E	1L
RRDC11-F	2.5L
RRDC11-G	5L

Special Decalcification

Tissue Softener

Biosoft softens hard/dense or brittle tissue in blocks prior to sectioning, making sections easier to cut

Code	Pack
RRDC7-E	1L
RRDC7-F	2.5L
RRDC7-3E-B	3L Dispenser
RRDC7-G	5L
RRDC7-G-I	5L Dispenser

Decal I (Fixation +)

Decal I, a formaldehyde/formic acid blend, will simultaneously decalcify whilst continuing fixation to offset possible inadequate primary fixation

Code	Pack
RRDC2-E	1L
RRDC2-F	2.5L
RRDC2-3E-B	3L Dispenser
RRDC2-G	5L
RRDC2-G-I	5L Dispenser

Decal II (Rapid)

Decal II, a blend of hydrochloric acid and sodium chloride, is a rapid acid based decalcification solution that is ideal for larger bone specimens or specimens requiring rapid diagnosis

Code	Pack
RRDC1-E	1L
RRDC1-F	2.5L
RRDC1-3E-B	3L Dispenser
RRDC1-G	5L
RRDC1-G-I	5L Dispenser

Decal III (Decal +)

Our blend of EDTA/Hydrochloric offers a more gentle decalcification process than the Decal II

Code	Pack
RRDC3-E	1L
RRDC3-F	2.5L
RRDC3-3E-B	3L Dispenser
RRDC3-G	5L
RRDC3-G-I	5L Dispenser

Decal V (Gentle)

Our Formalin/EDTA Decalcifier (Hilleman & Lee 1953) is excellent for trephines. It offers a well controlled gentler decalcification process delivering excellent H & E Staining whilst also ideal for Immunocytochemistry

Code	Pack
RRDC10-E	1L
RRDC10-F	2.5L
RRDC10-3E-B	3L Dispenser
RRDC10-G	5L
RRDC10-G-I	5L Dispenser

Decal VI (RNA +)

A mono sodium citrate/formic acid blend (also known as Morse's solution) ideal for decalcifying small biopsies (0.2-0.5cm) of bone and teeth

Code	Pack
RRSP700-E	1L
RRSP700-F	2.5L
RRSP700-3E-B	3L Dispenser
RRSP700-G	5L
RRSP700-G-I	5L Dispenser

Chemicals & Reagents

Acetic Acid 99.85% ACS

Cas No: 64-19-7	Einecs: 200-580-7	UN2789	Flash Point: 40°C

Minimum Assay: >99.85% w/w
Molecular Formula: CH3COOH
Molecular Weight: 60.05
Freezing Point: 16.35 deg C
Colour: <5HU
Non-Volatile Matter: <0.003% w/w
Permanganate Time: min 2 hours

Code	Pack
GPC8005-E	1L
GPC8005-3E	3x1L
GPC8005-6E	6x1L
GPC8005-12E	12 x 1L

Acetone 99.5% BP

Cas No: 67-64-1	Einecs: 200-662-2	UN1090	Flash Point: -20°C

Minimum Assay: 99.50%
Molecular Formula: C3H6O
Molecular Weight: 58.08g/mol
Melting Point: -94°C
Water: <0.3%
Acidity (as Acetic Acid): <0.002%

Code	Pack
GPS1003-E	1L
GPS1003-12E	12x1L
GPS1003-F	2.5L
GPS1003-6F	6x2.5L

Borax Decahydrate 99.5-105% ACS

Cas No: 1303-96-4	Einecs: 215-540-4		

Minimum Assay: 99.9-100.9%
Molecular Formula: Na2B4O7.10H2O
Molecular Weight: 381.37 g/mol
Melting Point: 169 °C
Density at 25°C (g/cm3): 1.73
pH (0.01M soln 25°C): 9.15-9.20
Sodium Oxide (Na2O): 16.4-17.0%
Chloride (Cl): 500ppm
Iron Oxide (Fe2O3): 20ppm
Sulphates (SO4):400ppm
Water Insoluble Matter: 300ppm
Mesh Size: 2.36mm

Code	Pack
GPC8102-5X	500gm
GPC8102-Y	1Kg
GPC8102-5Y	5Kg
GPC8102-10Y	10Kg

Charcoal Activated Powder DCL320

Cas No: 7440-44-0	Einecs: 231-153-3		

Molecular Weight: 12.01
Molasses Decolour: >500 (TM3)
Moisture as packed: Particle Size: 60-86
(Total Surface Density(N2 BET Method): <1000m3/g
Methylene Blue: Ash: <4% w/w
Water Extractables: <0.5%

Code	Pack
DCL320-X	100gm
DCL320-5X	500gm
DCL320-Y	1Kg

Chloroform 99.95% ACS

Cas No: 67-66-3	Einecs: 200-663-8	UN1888	

Minimum Assay: 99.95%
Molecular Formula: CHCl3
Molecular Weight: 119.38g/mol
Melting Point: -63°C
Boiling Point: 61.2°C
Water: <50mg/Kg
Residue on evaporation: <10mg/Kg
Acidity (as HCl): <5mg/Kg

Code	Pack
GPS9009-D	500ml
GPS9009-E	1L
GPS9009-F	2.5L
GPS9009-G	5L

di-Sodium Hydrogen Phosphate Anhydrous 98.5% ACS

Cas No: 7558-79-4	Einecs: 231-448-7		

Minimum Assay: 99.8%
Molecular Formula: HNa2O4P
Molecular Weight: 141.96
Appearance Form: White Crystalline Powder
pH: 8.9 - 9.2 at 50 g/l at 25 °C
PO2 Content: 49.7%
Vapour density: 4.90 - (Air = 1.0)
Relative density: 1.520 g/cm3
Water solubility: soluble
Relative vapour density 4.90 - (Air = 1.0)

Code	Pack
GPC8034-2X	250gm
GPC8034-5X	500gm
GPC8034-Y	1Kg
GPC8034-5Y	5Kg

Distilled Water

Cas No: 7732-18-5			

Molecular Formula: H2O
Molecular Weight: 18.02
Boiling Point: 100 deg C
Refractive Index: n20/D 1.34(lit.)
Conductivity: Resistivity: >1MΩ.cm
pH: 5.8-7.5
Nitrite (NO2):
Nitrate (NO3):
Silicon (Si): <0.04gm/L
Silcates (SiO2): Sodium (Na): Chloride (Cl)
: TOC: < 0.15 mg/L
Endotoxins: TVC (2 Days): 0 cfu/ml
TVC (3 Days): 0 cfu/ml

Code	Pack
GPC9023-D	500ml
GPC9023-E	1L
GPC9023-F	2.5L
GPC9023-G	5L
GPC9023-K	25L

D-Limonene 96%

Cas No: 5989-27-5	Einecs: 227-813-5	UN2052	

Minimum Assay: 96%
Molecular Formula: C10H16
Molecular Weight: 136.24 g/mol
Boiling Point: 170-180 °C
Refractive Index: 1.470-1.475
Water: <0.5%
Optical Rotation(at 25 °C): 85-100
Odour: Orange/Citrus Fruit

Code	Pack
GPS8889-D	500ml
GPS8889-E	1L
GPS8889-F	2.5L
GPS8889-G	5L

EDTA Tetrasodium Salt Dihydrate 99.5%

Cas No: 10378-23-1	Einecs: 200-573-9		

Minimum Assay: >99.5-99.9%%
Molecular Formula: C10H12N2Na4O8•2H2O
Molecular weight: 416.20
Solubility: Water Soluble 0.1 g/ml
pH: 10.5-11.5
Iron (Fe): <0.001%
Heavy Metals (as Pb): <0.002%
Chloride (Cl): <0.01%
Chelating Value: >234

Code	Pack
GPC9995-X	100gm
GPC9995-5X	500gm
GPC9995-Y	1Kg
GPC9995-5Y	5Kg

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Chemicals & Reagents

Ethanol Denatured 70%

Cas No: 67-17-5	Einecs: 200-578-6	UN3082	Flash Point: 14°C

Ethanol Content: 70%
Molecular Formula: C2H6O
Molecular Weight: 46.07 g/mol
Water: <0.1%
Acidity: <0.001%
Aldehydes & Ketones: <0.07%
Methanol (as denaturant): <3%

Code	Pack
GPS9018-D	500ml
GPS9018-E	1L
GPS9018-F	2.5L
GPS9018-G	5L

Ethanol Denatured 99.9%

Cas No: 7-17-5	Einecs: 200-78-6	UN1170	Flash Point: 14°C

Minimum Assay: >99.9%
Molecular Formula: C2H6O
Molecular Weight: 46.07 g/mol
Water: <0.1%
Acidity: <0.001%
Aldehydes & Ketones: <0.07%
Methanol (as denaturant): 3-5%

Code	Pack
GPS1000-D	500ml
GPS1000-E	1L
GPS1000-F	2.5L
GPS1000-G	5L

Ethylenediaminetetraacetic acid 98-100.5%

Cas No: 60-00-4	Einecs: 200-449-4		

Minimum Assay: 99.34%
Molecular Formula: C10H16N2O8
Molecular Weight: 292.24
Melting Point: 245°C
pH: 2.85 (50gm/L @25 deg C)
Water: <0.5%
Heavy Metals (as Pb): <0.0004%
Iron (Fe): <0.0005%
Sulphates (SO4): <0.02%
Chelation Value: 340

Code	Pack
GPC9996-X	100gm
GPC9996-5X	500gm
GPC9996-Y	1Kg
GPC9996-5Y	5Kg

Formaldehyde 37% ACS

Cas No: 50-00-0	Einecs: 200-001-8	UN2209	Flash Point: 62°C

Minimum Assay: 36.3-36.9%
Molecular Formula: CH2O
Molecular Weight: 30.03 g/mol
Formic Acid: <0.05%
Methanol: 6.0-8.0%
Ash: <0.01%
Iron (Fe): <2ppm
Copper: <2ppm

Code	Pack
GPC8044-D	500ml
GPC8044-E	1L
GPC8044-F	2.5L
GPC8044-G	5L

Glycerol 99.5% ACS

Cas No: 56-81-5	Einecs: 200-289-5		

Minimum Assay: 99.5%
Molecular Formula: C3H8O3
Molecular Weight: 92.09 g/mol
Melting Point: 20 °C
Solubility in water (% weight): Soluble in water
Flash Point: 160 deg C
Boiling Point: 182 deg C
Refractive Index : 1.470-1.475 nD20
Colour: Clear - Pale Yellow
Storage Temperature: 20-24C

Code	Pack
GPS1005-D	500ml
GPS1005-E	1L
GPS1005-F	2.5L
GPS1005-G	5L
GPS1005-K	25L

Hydrochloric Acid 35.0-36.6% ACS

Cas No: 7647-01-0	Einecs: 31-595-7	UN1789	

Minimum Assay: 35.6-36.6%
Molecular Formula HCl
Molecular Weight 36.46 g/mol
Sulphate (SO4): <0.6%
Iron (Fe): <10ppm
Arsenic (As): <2ppm
Lead (Pb): <2ppm
Copper (Cu): <2ppm
Total organics: <100ppm

Code	Pack
GPC8006-D	500ml
GPC8006-E	1L
GPC8006-3E	3x1L
GPC8006-6E	6x1L
GPS8006-12E	12 x 1L

Industrial Methylated Spirits 99.5%

Cas No: 64-17-5	Einecs: 200-578-6	UN1170	

Minimum Assay: >99.5%
Molecular Formula: C2H60
Molecular Weight: 46.07 g/mol
Boiling Point: 78°C
Melting Point: -114°C
Density at 20°C (g/cm3): 0.785
Refractive Index: 1.361
Water Content: Max 1.43%
Acidity as Acetic Acid: Max 0.003%
Carbonyls as Acetaldehyde: Max 0.1%

Code	Pack
GPS1000-D	500ml
GPS1000-E	1L
GPS1000-F	2.5L
GPS1000-G	5L

IsoPentane 96% (GW)

Cas No: 78-78-4	Einecs: 201-142-8	UN1265	Flash Point: -57°C

Minimum Assay: >96%
Molecular Formula: C5H12
Molecular Weight: 72.15 g/mol
Boiling Point: 30°C
Melting Point: -160°C
Density at 25°C (g/cm3): 0.62
Refractive Index: 1.354

Code	Pack
GWN6298-D	500ml
GWN6298-12D	12 x 500ml
GWN6298-E	1L
GWN6298-6E	6 x 1L

Isopropyl Alcohol 99.9% ACS

Cas No: 67-63-0	Einecs: 200-61-7	UN1219	Flash Point: 13°C

Minimum Assay: >99.9%
Molecular Formula: C3H8O
Molecular Weight: 60.1 g/mol
Melting Point: -89.5 °C
Boiling Point: 82.4 °C
Water: <0.2%
Colour: <10 Hazen

Code	Pack
GPS1007-E	1L
GPS1007-12E	12x1L
GPS1007-F	2.5L
GPS1007-G	5L

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Chemicals & Reagents

Methanol 99.85% ACS

Cas No: 67-56-1	Einecs: 200-69-6	UN1230	Flash Point: 12°C

Minimum Assay: 99.85%
Molecular Formula: CH3OH
Molecular Weight: 32.04 g/mol
Flash Point: 11 °C
Boiling Point: 64.96 °C
Melting Point: -97.8 °C
Water: <0.1%

Code	Pack
GPS1004-E	1L
GPS1004-12E	12x1L
GPS1004-F	2.5L
GPS1004-6F	6x2.5L

Nitric Acid 69%

Cas No: 67-63-0	Einecs: 200-61-7	UN1219	Flash Point: 13°C

Minimum Assay: >69%
Molecular Formula: HNO3
Density: 1.401-1.417
Nitrous Acid: <200ppm
Sulphuric Acid: <100ppm
Residue On Ignition: <50ppm
Iron (Fe): <10ppm

Code	Pack
GPC9289-D	500ml
GPC9289-E	1L
GPC9289-6E	6x1L
GPC9289-12E	12x1L

Paraformaldehyde 97%

Cas No: 30525-89-4	Einecs: 203-632-7	UN2213	

Minimum Assay: >97%
Molecular Formula: (CH2O)n
Molecular Weight: 323.83 g/mol
Melting Point: 120-170°C

Code	Pack
GPC9407-2X	250gm
GPC9407-5X	500gm
GPC9407-Y	1Kg

Phenol Detached Crystals 99% ACS

Cas No: 108-95-2	Einecs: 203-632-7	UN2821	

Minimum Assay: >99%
Molecular Formula: C6H6O
Molecular Weight: 94.11 g/mol
Solubility in Water (1 in 12): Clear @ 20 C
Melting Point: 43 °C
Boiling Point: 182 °C
Storage Temperature: 20-24C
Chlorine (Cl): <1ppm
Sulphur (S): <0.5ppm
Iron (Fe): <0.1ppm

Code	Pack
GPC8008-2W	50gm
GPC8008-X	100gm
GPC8008-2X	250gm
GPC8008-5X	500gm

Phenol Solution 80%

Cas No: 108-95-2	Einecs: 203-632-7	UN2821	

Minimum Assay: >80%
Chemical Formula: C6H6O
Molecular Weight: 94.11
Water: <20%

Code	Pack
GPC3354-D	500ml
GPC3354-E	1L

Picric Acid 98%

Cas No: 88-89-1	Einecs: 88-89-1	UN1344	Flash Point: 150°C

Minimum Assay: >98%
Moistened with Water
Molecular Formula: (O2N)3C6H2OH
Molecular Weight: 229.10
Explosive Limits: <0.01
Melting Point: 122-123 °C

Code	Pack
GPC8021-2W	50gm
GPC8021-X	100gm
GPC8021-5X	500gm

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Potassium dihydrogen Phosphate 99-102.00%

Cas No: 7778-77-0	Einecs: 231-913-4		

Minimum Assay: >100.2%
Molecular Formula: KH2PO4
Molecular Weight: 136.09 g/mol
Melting Point: 252.6 °C
pH (1% Solution): 4.2 - 4.8
Lead (Pb): <1ppm
Arsenic (As): <1ppm
Cadmium (Cd): <1ppm
Mercury (Hg): <1ppm
Fluroide (F): < 10ppm

Code	Pack
GPC8093-X	100gm
GPC8093-2X	250gm
GPC8093-5X	500gm
GPC8093-Y	1Kg
GPC8093-5Y	5Kg

Di Potassium Hydrogen Phosphate 98% ACS

Cas No: 7758-11-4	Einecs: 231-834-5		

Minimum Assay: >98%
Molecular Formula: K2HPO4
Molecular Weight: 174.18 g/mol
Melting Point: 180 °C
P2O5: 40.3 - 41.5
pH (1% Solution): 9.0 - 9.4
Lead (Pb): <1ppm
Arsenic (As): <1ppm
Cadmium (Cd): <1ppm
Mercury (Hg): <1ppm
Fluroide (F): < 10ppm

Code	Pack
GPC8094-X	100gm
GPC8094-2X	250gm
GPC8094-5X	500gm
GPC8094-Y	1Kg
GPC8094-5Y	5Kg

Potassium Hydroxide Flake 90%

Cas No: 1310-58-3	Einecs: 215-181-3	UN1813	

Minimum Assay: >90%
Molecular Formula: HKO
Molecular Weight: 56.11
Melting Point: 360°C
Boiling Point: 1320-1324°C
Potassium Carbonate (K2Co3): <0.5%
Potassium Chloride (KCl): <0.015%
Iron (Fe): <3ppm
Sodium Hydroxide (NaOH): <5ppm
Sulphated Ash: <5ppm
Bulk Density: 0.8-1.2 g/m3
Lead (Pb): <0.1ppm
Zinc (Zn): <0.2ppm
Arsenic (As): <10ppn

Code	Pack
GPC8060-5X	500gm
GPC8060-Y	1Kg
GPC8060-2.5Y	2.5Kg
GPC8060-5Y	5Kg

Chemicals & Reagents

Potassium Hydroxide Pellets 85%

Cas No: 1310-58-3	Einecs: 215-181-3	UN1813	

Minimum Assay: >99%
Molecular Formula KOH
Molecular Weight 56.11 g/mol
Melting Point 361 °C

Code	Pack
GPC8025-2X	250gm
GPC8025-5X	500gm
GPC8025-Y	1Kg
GPC8025-5Y	5Kg

Potassium Sodium Tartrate Tetrahydrate 98%

Cas No: 6381-59-5	Einecs: 206-156-8		

Minimum Assay: >98%
Molecular Formula: C4H4KNaO6•4H2O
Molecular Weight: 282.23
Solubility in water (% weight): Soluble in water
Chloride (Cl): <0.005%
Sulphate (SO4): <0.05%
Acidity or Alkalinity: Max 1 ml N%

Code	Pack
GPC9920-2X	250gm
GPC9920-5X	500gm
GPC9920-Y	1Kg
GPC9920-5Y	5Kg

Sodium Azide 99%

Cas No: 26628-22-8	Einecs: 247-852-1		

Minimum Assay: >99%
Molecular Formula N3Na
Molecular Weight 65.01 g/mol
Melting Point 275 °C

Code	Pack
GPC8029-X	100gm
GPC8029-2X	250gm
GPC8029-5X	500gm
GPC8029-Y	1Kg

Sodium Chloride 99.9% BP, ACS, Ph Eur

Cas No: 7647-14-5	Einecs: 231-598-3		

Minimum Assay: >99.9%
Molecular Formula: NaCl
Molecular Weight: 58.44 g/mol
Melting Point: 801 °Clron (Fe): <0.1ppm

Code	Pack
GPC8030-5X	500gm
GPC8030-Y	1Kg
GPC8030-5Y	5Kg
GPC8030-25Y	25Kg

Sodium dihydrogen Citrate 99% Anhydrous

Cas No: 18996-35-5	Einecs: 242-734-6		

Minimum Assay % 99.6%
Molecula Formula: C6H7NaO7
Molecula Weight: 214.11
pH (1%): 3.5 - 3.8
Melting Point: 211-212 deg C
Heavy metals (Pb): <5 mg/Kg
Lead (Pb): <1 mg/Kg
Mercury(H): <1 mg/Kg
Arsenic (As): <1 mg/Kg
Iron (Fe):<20.0 mg/Kg
Loss on Drying: <0.4mg/Kg
Chloride (Cl): <50 mg/Kg
Sulphate (SO4): <150mg/Kg

Code	Pack
GPC8989-X	100gm
GPC8989-5X	500gm
GPC8989-Y	1Kg
GPC8989-5Y	5Kg

di-Sodium Hydrogen Phosphate Anhydrous

Cas No: 7558-79-4	Einecs: 231-448-7		

Minimum Assay: >98.5%
Molecular Formula: HNa2O4P
Molecular Weight: 141.96
Appearance Form: White Crystalline powder
pH: 8.9 - 9.2 at 50 g/l at 25 °C
PO2 Content: 49.7%
Vapour density: 4.90 - (Air = 1.0)
Relative density: 1.520 g/cm3
Water solubility: soluble
Relative vapour density 4.90 - (Air = 1.0)
Arsenic (As): <1ppm
Fluoride (F): <10ppm
Lead (Pb): <1ppm
Cadmium (Cd): <1ppm
Mercury (Hg): <0.5ppm
Insoluble Matter: <0.02%
Loss on Drying: <0.1%

Code	Pack
GPC8034-2X	250gm
GPC8034-5X	500gm
GPC8034-Y	1Kg
GPC8034-5Y	5Kg

Sodium di-Hydrogen Phosphate Anhydrous 99% ACS

Cas No: 7558-80-7	Einecs: 231-449-2		

Minimum Assay: 98.0-103.0%
Molecular Formula: H2NaO4P
Molecular Weight: 119.98 g/mol
P2O5 (%m/m): 58.0-60.0
pH (1% Solution): 4.1-4.7
Water Insoluble Matter: <0.2%
Flouride (Fl): <10ppm
Arsenic (As): <3ppm
Lead (Pb): <2ppm
Cadmium (Cd): <1ppm
Mercury (Hg): <1ppm

Code	Pack
GPC8032-2X	250gm
GPC8032-5X	500gm
GPC8032-Y	1Kg
GPC8032-5Y	5Kg

Sodium Formate 99.1%

Cas No: 141-53-7	Einecs: 205-488-0		

Minimum Assay: <99.1%
Molecular Formula: HCOONa
Molecular Weight: 68.01 g/mol
Melting Point: 259-262 °C
Density (g/cm3): 1.92
Chloride (Cl): 0.0004%
Sulphate (SO4): 0.0008%
Heavy Metals (as Pb): 0.0005%
Iron (Fe): <0.0003%
Calcium (Ca): <0.0005%
Loss on Drying (150 °C): 0.13%
pH (5%, in water): 7.90

Code	Pack
GPC9914-2X	250gm
GPC9914-5X	500gm
GPC9914-Y	1Kg
GPC9914-5Y	5Kg

Sodium Hydroxide Pearl 99%

Cas No: 1310-73-2	Einecs: 215-185-5	UN1823	

Total Alkalinity (NaOH/Kg): 99.0%
Molecular Formula: NaOH
Molecular Weight: 40.0 g/mol
Melting Point: 318.4 °C
Sodium Carbonate (Na2CO3): <4g
Sodium Chloride (Cl): <0.2%

Code	Pack
GPC8035-2X	250gm
GPC8035-5X	500gm
GPC8035-Y	1Kg
GPC8035-3Y	3x1Kg
GPC8035-6Y	6x1Kg

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Chemicals & Reagents

Sodium Hydroxide Pellets 99.9% ACS

Cas No: 1310-73-2	Einecs: 215-185-5	UN1823	

Minimum Assay: 97.0-100.5%
Molecular Formula: NaOH
Molecular Weight: 40.0 g/mol
Melting Point 318.4 °C
Appearance in 10% Solution:
Clear and Colour less
Chloride (Cl): <200ppm
Sulphate (SO4): <50ppm
Iron (Fe): <10ppm
Heavy Metals (as Pb): <20ppm
Arsenic (As): <3ppm
Lead (Pb): <0.5ppm
Mercury (Hg): <1ppm

Code	Pack
GPC8036-2X	250gm
GPC8036-5X	500gm
GPC8036-Y	1Kg
GPC8036-3Y	3x1Kg
GPC8036-6Y	6x1Kg

Sodium Hypochlorite 14%

Cas No: 7681-52-9	Einecs: 231-668-3	UN1791	

Available Chlorine: >14%
Molecular Formula: NaClO
Molecular Weight: 74.44 g/mol
Sodium Hydroxide (NaOH): 0.2-1%
Clarity % Transmission: 79
Copper (Cu): <0.2ppm
Nitrogen (Ni): <0.1ppm
Sodium Carbonate: <1.5%
Iron (Fe): <2ppm
Cadmium (Cd): <0.1%

Code	Pack
GPC9939-D	500ml
GPC9939-E	1L
GPC9939-F	2.5L
GPC9939-G	5L

Sodium Tartrate Dihydrate 99.5%

Cas No: 6106-24-7	Einecs: 212-773-3		

Minimum Assay: >99.5%
Molecular Formula: C4H4Na2O6•2H2O
Molecular weight: 230.08
Melting Point: 150°C
Heavy Metals (as Pb): <0.002%
Arsenic (As): <0.0003%
Phosphates (PO4): <0.01%
Sulphates (SO4): <0.01%
Loss on Drying: 15.2%

Code	Pack
GPC9921-X	100gm
GPC9921-2X	250gm
GPC9921-5X	500gm
GPC9921-Y	1Kg

Sulphuric Acid 25%

Cas No: 7664-93-9	Einecs: 231-639-5	UN2796	

Minimum Assay: 25%
Molecular Formula: H2SO4
Molecular Weight: 98.08

Code	Pack
GPS1040-D	500ml
GPS1040-E	1L

Sulphuric Acid 96%

Cas No: 7664-93-9	Einecs: 231-639-5	UN1830	

Minimum Assay: 95.5-97%
Molecular Formula: H2SO4
Molecular Weight: 98.07 g/mol
Residue on Ignition: 100mg/Kg
Nitrogen Oxides (as N2): 25mg/Kg
Chloride (Cl): 5mg/Kg

Code	Pack
GPC9000-D	500ml
GPC9000-E	1L
GPC9000-6E	6 x 1L
GPC9000-12E	12 x 1L
GPC9000-24E	24 x 1L

Water Purified

Cas No: 7732-18-5	Einecs: 231-791-2		

Minimum Assay: >99.99%
Molecular Formula: H2O
Molecular Weight: 18.02 g/mol
Boiling Point: 100 °C
Melting Point 0 °C
uS: <0.5
ppm: <1ppm

Code	Pack
GPC9600-D	500ml
GPC9600-E	1L
GPC9600-F	2.5L
GPC9600-G	5L
GPC9600-K	25L

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Xylene 98-99% (Mixture of Isomers)

Cas No: 1330-20-7	Einecs: 215-535-7	UN1307	Flash Point: 25°C

Minimum Assay: 98-99%
Molecular Formula: C8H10
Molecular Weight: 106.17 g/mol
Flash Point: 25 °C
Boiling Point: 136-143 °C

Code	Pack
GPS1001-D	500ml
GPS1001-E	1L
GPS1001-12E	12 x 1L
GPS1001-F	2.5L
GPS1001-G	5L
GPS1001-4G	4 x 5L

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