

Кислоты неорганические

Технические характеристики

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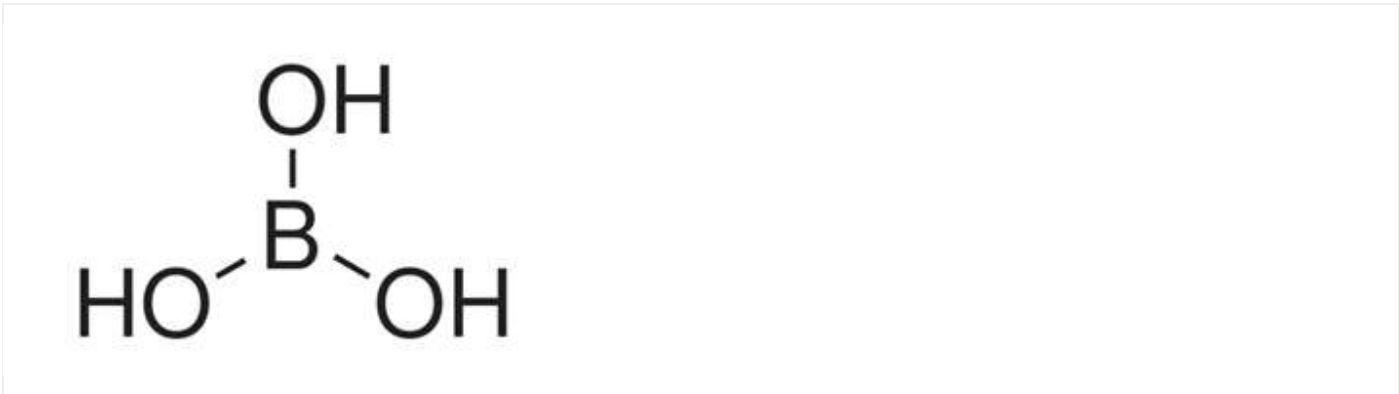
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BORIC ACID (FOR MOLECULAR BIOLOGY)

Orthoboric acid

Product Code.	00454	Grade	
Purity	99.8%	CAS No.	10043-35-3
Molecular Formula	H3BO3	Molecular Weight	61.83
H.S.Code	2810.00200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	3.8 - 4.8	Melting point/ Freezing point [°C]	160 °C	Boiling point [°C]	300 °C
Vapour pressure [20°C]	3.5 hPa at 20 °C	Density [g/cm3]	1.44	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White powder
Assay (alkalimetric; on anhydrous basis)	99.5-100.5%
Identification	To comply IP, BP, USP tests

Solubility	Soluble in water and in ethanol (96 per cent), freely soluble in boiling water and in glycerol (85 per cent)
Appearance of solution	To comply IP, BP, USP
Substance insoluble in alcohol	To comply IP, BP, USP test
pH (3.3% solution in water)	3.8 - 4.8
Sulphate (SO ₄)	Max 0.045%
Heavy metal (as Pb)	max 0.0015%
Arsenic (As)	Max 0.001%
Organic impurities	To comply BP test
Loss on drying (5hrs; over silica gel)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS08

Signal Word: Danger

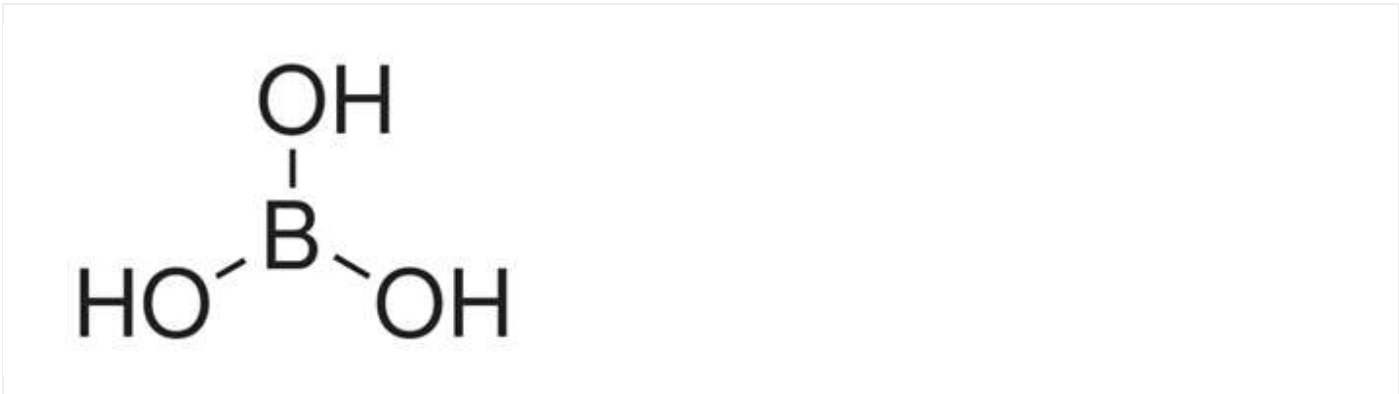
Hazardous Statement: H360

Precaution Statement: P201-P308 + P313

BORIC ACID (POWDER) 99.5% EXTRAPURE

Orthoboric Acid

Product Code.	00452	Grade	Extrapure
Purity	99.5%	CAS No.	10043-35-3
Molecular Formula	H3BO3	Molecular Weight	61.83
H.S.Code	2810.00200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystals	Odour	Odorless
pH value	3.8 - 4.8	Melting point/ Freezing point [°C]	160 °C	Boiling point [°C]	300 °C
Vapour pressure [20°C]	3.5 hPa at 20 °C	Density [g/cm3]	1.44	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White powder
Assay (alkalimetric; on dried basis)	99.5-100.5%
Identification	To comply IP, BP, USP tests

Solubility	Soluble in water and in ethanol (96 per cent), freely soluble in boiling water and in glycerol (85 per cent)
Appearance of solution	To comply IP, BP, USP
Substance insoluble in alcohol	To comply IP, BP, USP test
pH (3.3% solution in water)	3.8-4.8
Sulphate (SO ₄)	Max 0.045%
Heavy metal (as Pb)	max 0.0015%
Arsenic (As)	max 0.001%
Organic impurities	To comply BP test
Loss on drying (5hrs; over silica gel)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS08

Signal Word: Danger

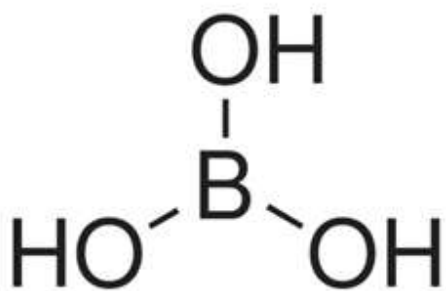
Hazardous Statement: H360

Precaution Statement: P201-P308 + P313

BORIC ACID 99.5% AR

Orthoboric acid

Product Code.	00453	Grade	AR
Purity	99.5%	CAS No.	10043-35-3
Molecular Formula	H3BO3	Molecular Weight	61.83
H.S.Code	2810.00200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	3.8 - 4.8	Melting point/ Freezing point [°C]	160 °C	Boiling point [°C]	300 °C
Vapour pressure [20°C]	3.5 hPa at 20 °C	Density [g/cm3]	1.44	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White powder/crystals/crystalline powder
Assay	Min 99.5%
Insoluble matter in methanol	Max 0.005%

Non volatile in methanol	Max 0.05%
Chloride (Cl)	Max 0.001%
Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.01%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0001%

Safety Information and Hazard Symbols


Symbol: GHS08 Signal Word: Danger Hazardous Statement: H360 Precaution Statement: P201-P308 + P313

FLUOROBORIC ACID 40% FOR SYNTHESIS

Fluoboric acid; Tetrafluoroboric acid ;Borofluoric Acid

Product Code.	01233	Grade	For Synthesis
Purity	40%	CAS No.	16872-11-0
Molecular Formula	HBF4	Molecular Weight	87.81
H.S.Code	2811.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorles	Odour	Odorless
Boiling point [°C]	130°C	Vapour density	3	Density [g/cm3]	1.84
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 40.0%
Iron (Fe)	Max 0.005%
Copper (Cu)	Max 0.0005%
Nickel (Ni)	Max 0.0005%
Zinc (Zn)	Max 0.0005%
Sulphate (SO4)	Max 0.1%
Free boric acid	1 - 2%
Chloride (Cl)	Max 0.005%
Density (at 25°C)	1.28 - 1.30 g/mL

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 1775

IMCO Class No.: 8

Packing Group: II

Hazardous Statement: H314

Precaution Statement: P280-P305 + P351 + P338-P310

HYDRIODIC ACID 55% AR

Hydriotic acid

Product Code.	01375	Grade	AR
Purity	55%	CAS No.	10034-85-2
Molecular Formula	HI	Molecular Weight	127.91
H.S.Code	2811.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to brown	Odour	pungent
Melting point/ Freezing point [°C]	-50	Initial boiling point [°C]	127	Relative density, liquid (water=1)	1.700 g/cm ³ at 20 °C

Specification

Appearance	Colourless to brown to pale yellow fuming liquid
Assay (as HI)	Min 55%
Arsenic (As)	Max. 0.0005%
Chloride & bromide (as Cl)	Max. 0.05%
Heavy metal (as Pb)	Max. 0.001%
Iron (Fe)	Max. 0.001%
Stabilizer (H ₃ PO ₂)	Max. 1.5%
Sulphate (SO ₄)	Max. 0.005%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 1787 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H335 Precaution Statement: P261-P280-P305 + P351 + P338-P310

HYDROBROMIC ACID 48% AR

Hydrogen bromide; HBr

Product Code.	01377	Grade	AR
Purity	48%	CAS No.	10035-10-6
Molecular Formula	HBr	Molecular Weight	80.91
H.S.Code	2811.19900	Shelf Life	36 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to pale yellow	Odour	Pungent odor
Melting point/ Freezing point [°C]	-11°C	Boiling point [°C]	100 °C	Vapour density	2.8
Density [g/cm3]	1.49	Solubility in water [% weight]	Infinitely soluble		

Packaging

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Specification

Appearance	A clear, colorless to pale yellow liquid, which becomes brown on storage
Specific gravirty	1.5000 g
Assay (alkalimetric)	47 - 49%
Arsenic (As)	Max 0.00005%
Chloride (Cl)	Max 0.05%
Heavy metal (as Pb)	Max 0.0005%
Iodide (I)	Passes test (approx.0.003%)
Iron (Fe)	Max 0.0001%
Organic substances	Passes test
Phosphate (PO4)	Max 0.003%
Residue on ignition	Max 0.003%
Selenium (Se)	Passes test (approx.0.01 ppm)

Sulphate and Sulphite (as SO₄)

Max 0.003%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 1788

IMCO Class No.: 8

Packing Group: II

Hazardous Statement: H314-H331-H335

Precaution Statement: P261-P280-P305 + P351 + P338-P310

HYDROBROMIC ACID 48% EXTRAPURE

Hydrogen bromide; HBr

Product Code.	01376	Grade	Extrapure
Purity	48%	CAS No.	10035-10-6
Molecular Formula	HBr	Molecular Weight	80.91
H.S.Code	2811.19900	Shelf Life	36 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to pale yellow	Odour	Pungent odor
Melting point/ Freezing point [°C]	-11°C	Boiling point [°C]	100 °C	Vapour density	2.8
Density [g/cm3]	1.49	Solubility in water [% weight]	Infinitely soluble		

Packaging

Specification

Appearance	A clear, colorless to pale yellow liquid, which becomes brown on storage
Assay (alkalimetric)	46 - 48%
Non volatile matter	Max 0.05%
Sulphate (SO4)	Max 0.02%
Arsenic (As)	Max 0.0005%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS06 Signal Word: Danger UN No.: 1788 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H331-H335 Precaution Statement: P261-P280-P305 + P351 + P338-P310

HYDROCHLORIC ACID 35.4% AR

Specific Gravity 1.18 g Muriatic Acid; Hydrogen Chloride

Product Code.	01380	Grade	AR
Purity	35.4%	CAS No.	7647-01-0
Molecular Formula	HCl	Molecular Weight	36.46
H.S.Code	2806.10000	Shelf Life	60 Months

HCl

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent odor
Melting point/ Freezing point [°C]	-30 °C	Boiling point [°C]	110 °C	Vapour pressure [20°C]	225 hPa at 20 °C
Density [g/cm3]	1.2	Solubility in water [% weight]	Soluble in water	Viscosity at 40°C [mm2/s]	2.3 mPa.s at 15 °C

Packaging

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Specification

Appearance	Clear colorless fuming liquid.
Assay	Min 35.4%
Non volatile matter	Max 0.001%
Free chlorine (Cl)	Max 0.0002%
Sulphate (SO4)	Max 0.0005%

Sulphite (as SO3)	Max 0.0001%
Aluminium (Al)	Max 0.00005%
Ammonium (NH4)	Max 0.0003%
Arsenic (As)	Max 0.000002%
Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.00004%
Lead (Pb)	Max 0.00005%

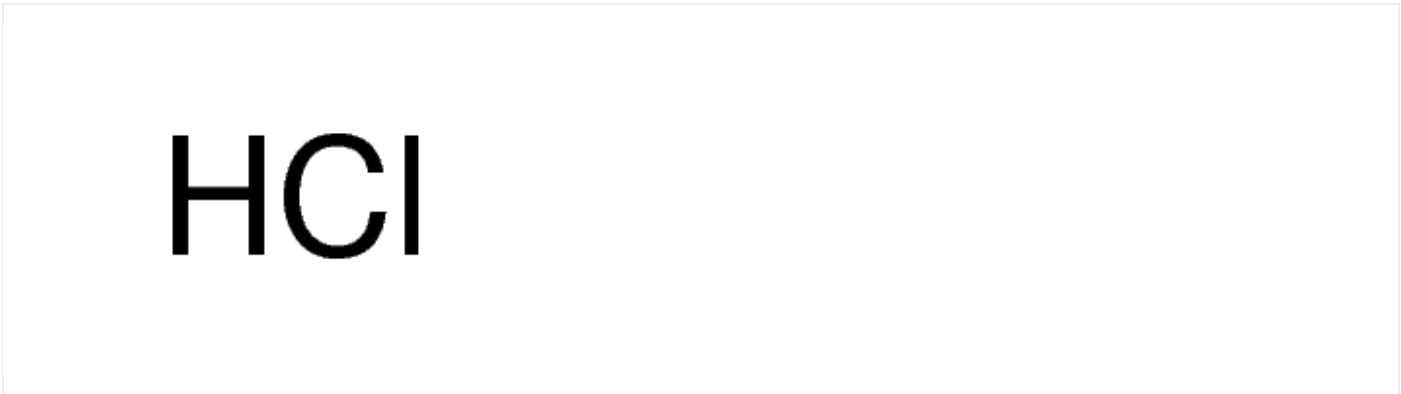
Safety Information and Hazard Symbols

Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 1789 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H335 Precaution Statement: P261-P280-P305 + P351 + P338-P310

HYDROCHLORIC ACID 35% EXTRAPURE

Muriatic Acid; Hydrogen Chloride

Product Code.	01379	Grade	Extrapure
Purity	35%	CAS No.	7647-01-0
Molecular Formula	HCl	Molecular Weight	36.46
H.S.Code	2806.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent odor
Melting point/ Freezing point [°C]	-30 °C	Boiling point [°C]	110 °C	Vapour pressure [20°C]	225 hPa at 20 °C
Density [g/cm3]	1.2	Solubility in water [% weight]	Soluble in water	Viscosity at 40°C [mm2/s]	2.3 mPa.s at 15 °C

Packaging

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Specification

Appearance	A clear colorless fuming liquid
Assay (acidimetric)	Min 35%
Weight/ mL at 20°C	About 1.18 g
Non volatile matter	Max 0.01%
Free chloride (Cl)	Max 0.0005%

Sulphuric acid (H ₂ SO ₄)	Max 0.02%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.0005%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 1789 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H335 Precaution Statement: P261-P280-P305 + P351 + P338-P310

HYDROFLUORIC ACID 40% EXTRAPURE

Hydrogen Fluoride; HF

Product Code.	01392	Grade	
Purity	Min 39-43%	CAS No.	7664-39-3
Molecular Formula	HF	Molecular Weight	20.01
H.S.Code	2811.11000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Acrid odor
pH value	1	Melting point/ Freezing point [°C]	< -36°C	Boiling point [°C]	108°C
Vapour pressure [20°C]	25 mm Hg @ 20°C	Vapour pressure mm/Hg	25 mm Hg @ 200C	Vapour density	1.97
Density [g/cm3]	1.15 -1.18	Solubility in water [% weight]	Infinitely soluble		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (alkalimetric)	39 - 43%
Weight/ mL at 20°C	About 1.13 g
Non volatile matter	Max 0.04%
Fluorosilicate (SiF6)	Max 1%
Sulphate (SO4)	Max 0.04%
Iron (Fe)	Max 0.003%
Lead (Pb)	Max 0.003%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 1790

IMCO Class No.: 8,6.1

Packing Group: II

Hazardous Statement: H300-H310-H314-H330

Precaution Statement: P260-P264-P280-P284-P301 + P310-P302 + P350

HYDROFLUORIC ACID 48% AR

Hydrogen Fluoride; HF

Product Code.	01393	Grade	
Purity	48%	CAS No.	7664-39-3
Molecular Formula	HF	Molecular Weight	20.01
H.S.Code	2811.11000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Acrid odor
pH value	1	Melting point/ Freezing point [°C]	< -36°C	Boiling point [°C]	108°C
Vapour pressure [20°C]	25 mm Hg @ 20°C	Vapour pressure mm/Hg	25 mm Hg @ 200C	Vapour density	1.97
Density [g/cm3]	1.15 -1.18	Solubility in water [% weight]	Infinitely soluble		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (alkalimetric)	48.0-51.0%
Sulphate and Sulphite (as SO4)	Max 0.0005%
Phosphate (PO4)	max 0.0001%
Fluorosilicic acid (H2SiF6)	max 0.01%
Residue on ignition	max 0.0005%
Chloride (Cl)	Max 0.0005%
Iron (Fe)	Max 0.0001%
Heavy metal (as Pb)	max 0.00005%
Arsenic (As)	Max 0.000005%
Copper (Cu)	Max 0.00001%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 1790

IMCO Class No.: 8,6.1

Packing Group: II

Hazardous Statement: H300-H310-H314-H330

Precaution Statement: P260-P264-P280-P284-P301 + P310-P302 + P350

HYDROFLUORIC ACID 48% AR

Hydrogen Fluoride; HF

Product Code.	01394	Grade	
Purity	48%	CAS No.	7664-39-3
Molecular Formula	HF	Molecular Weight	20.01
H.S.Code	2811.11000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Acrid odor
pH value	1	Melting point/ Freezing point [°C]	< -36°C	Boiling point [°C]	108°C
Vapour pressure [20°C]	25 mm Hg @ 20°C	Vapour pressure mm/Hg	25 mm Hg @ 200C	Vapour density	1.97
Density [g/cm3]	1.15 -1.18	Solubility in water [% weight]	Infinitely soluble		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (alkalimetric)	Min 48%
Residue on ignition	Max 0.0001%
Fluorosilicic acid (H2SiF6)	Max 0.001%
Heavy metal (as Pb)	Max 0.00005%
Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.00001%
Potassium (K)	Max 0.00001%
Sodium (Na)	Max 0.00001%
Chloride (Cl)	Max 0.00001%
Phosphate (PO4)	Max 0.00001%
Sulphite (as SO3)	Max 0.00001%

Sulphate (SO₄)

Max 0.00001%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 1790

IMCO Class No.: 8,6.1

Packing Group: II

Hazardous Statement: H300-H310-H314-H330

Precaution Statement: P260-P264-P280-P284-P301 + P310-P302 + P350

HYPOPHOSPHORUS ACID 30% EXTRAPURE

Phosphinic acid

Product Code.	01426	Grade	
Purity	30%	CAS No.	6303-21-5
Molecular Formula	HPH2O2	Molecular Weight	66.00
H.S.Code	2811.19200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	1	Melting point/ Freezing point [°C]	-25°C	Decomposition point [°C]	108°C
Boiling point [°C]	108°C	Vapour pressure [20°C]	< 17 mm Hg 20 °C	Vapour pressure mm/Hg	< 17 mm Hg 20 °C
Density [g/cm3]	1.27	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	A clear, colourless liquid
Assay (alkalimetric)	30 - 32%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.002%
Copper (Cu)	Max 0.0005%
Sodium (Na)	Max 0.05%
Heavy metal (as Pb)	Max 0.001%
Chloride (Cl)	Max 0.02%
Sulphate (SO4)	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3264

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H314

Precaution Statement: P280-P305 + P351 + P338-P310

IODIC ACID 99.5% AR

Iodic(V) acid

Product Code.	01449	Grade	
Purity	99.5%	CAS No.	7782-68-5
Molecular Formula	HIO3	Molecular Weight	175.91
H.S.Code	2811.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	110 °C
Density [g/cm3]	4.629	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	White to Off-White or Pale Yellow Crystals or Crystalline Powder and/or Chunks
Assay	99.5 - 100.2%
Insoluble matter in water	Passes test
Sulphated ash	Max 0.05%
Chloride & bromide (as Cl)	Max 0.01%
Iodide (I)	Max 0.0005%
Nitrogen compounds (as N)	Max 0.005%
Sulphate (SO4)	Max 0.02%
Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05

Signal Word: Danger

UN No.: 3085

IMCO Class No.: 5.1(8)

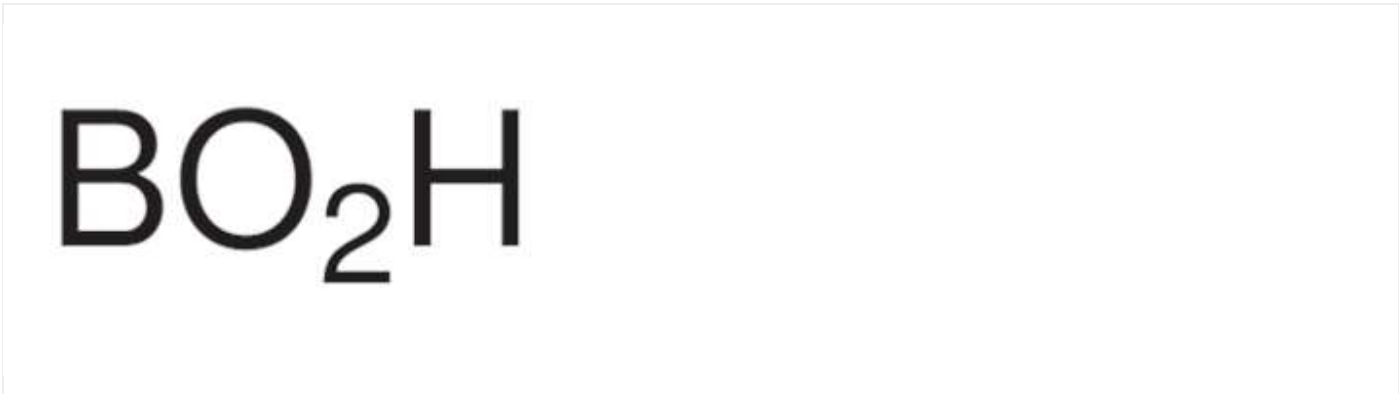
Packing Group: II

Hazardous Statement: H272-H314

Precaution Statement: P220-P280-P305 + P351 + P338-P310

META-BORIC ACID 98.5% EXTRA PURE

Product Code.	00456	Grade	
Purity	98.5%	CAS No.	13460-50-9
Molecular Formula	HBO2	Molecular Weight	43.82
H.S.Code	2810.00200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White	Relative density, liquid (water=1)	2.49 g/cm3 at 25 °C
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Packaging



Specification

Appearance	White crystalline powder
Assay	98.5 - 101.5%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

META-PHOSPHORIC ACID 56-60% AR

Glacial sticks. Metaphosphoric acid

Product Code.	02011	Grade	AR
Purity	56-60%	CAS No.	37267-86-0
Molecular Formula	(HPO3)n	Molecular Weight	0.00
H.S.Code	2809.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White stick	Odour	Odorless
Melting point/ Freezing point [°C]	200 °C	Boiling point [°C]	600 °C	Vapour pressure [20°C]	0.04 hPa at 20 °C
Density [g/cm3]	2	Solubility in water [% weight]	Slowly soluble		

Packaging

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Specification

Appearance	White glacial sticks.
Assay (HPO3)	40.0 - 50.0%
Stabilizer (NaPO3)	50.0 - 60.0%
Chloride (Cl)	Max 0.001%
Nitrate (NO3)	Max 0.0005%
Reducing substances (as H3PO3)	Max 0.01%
Arsenic (As)	Max 0.0001%
Lead (Pb)	Max 0.001%
Cadmium (Cd)	Max 0.001%
Iron (Fe)	Max 0.001%
Cobalt (Co)	Max 0.0015%
Copper (Cu)	Max 0.001%
Manganese (Mn)	Max 0.0005%

Nickel (Ni)	Max 0.001%
Zinc (Zn)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3453 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

META-PHOSPHORIC ACID 56-60% FOR SYNTHESIS

Glacial Sticks. Metaphosphoric acid

Product Code.	02010	Grade	
Purity	56-60%	CAS No.	37267-86-0
Molecular Formula		Molecular Weight	0.00
H.S.Code	2809.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White stick	Odour	Odorless
Melting point/ Freezing point [°C]	200 °C	Boiling point [°C]	600 °C	Vapour pressure [20°C]	0.04 hPa at 20 °C
Density [g/cm3]	2	Solubility in water [% weight]	Slowly soluble		

Specification

Appearance	White glacial sticks.
HPO ₃	56-60%
NaPO ₃	40-44%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.02%
Iron (Fe)	Max 0.002%
Lead (Pb)	Max 0.002%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3453 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

MOLYBDIC ACID 85% AR
containing ammonium molybdate.

Product Code.	01765	Grade	
Purity	85%	CAS No.	7782-91-4
Molecular Formula	H2M0O4	Molecular Weight	0.00
H.S.Code	2825.70200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	70°C	Density [g/cm3]	3.1	Solubility in water [% weight]	Slightly soluble in water

Specification

Appearance	White powder
Assay (as MoO3)	Min 85%
Insoluble in dil. NH4OH	Max 0.01%
Chloride (Cl)	Max 0.002%
Arsenate, phosphate & silicate (as SiO2)	Max 0.001%
Phosphate (PO4)	Max 0.0005%
Sulphate (SO4)	Max 0.02%
Heavy metal (as Pb)	Max 0.003%

MOLYBDIC ACID 85% EXTRAPURE

Product Code.	01764	Grade	
Purity	85%	CAS No.	7782-91-4
Molecular Formula	H2MoO4	Molecular Weight	161.95
H.S.Code	2825.70200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	70°C	Density [g/cm3]	3.1	Solubility in water [% weight]	Slightly soluble in water

Specification

Appearance	White powder
Assay (as MoO3)	Min 85%
Chloride (Cl)	Max 0.01%
Phosphate (PO4)	Max 0.005%
Sulphate (SO4)	Max 0.05%
Iron (Fe)	Max 0.004%
Lead (Pb)	Max 0.003%

NITRIC ACID 69% AR

Hydrogen Nitrate

Product Code.	01836	Grade	AR
Purity	69%	CAS No.	7697-37-2
Molecular Formula	HNO3	Molecular Weight	63.01
H.S.Code	2808.00100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to yellow	Odour	Suffocating odour
pH value	1	Boiling point [°C]	122 °C	Vapour pressure [20°C]	48 mm Hg @ 20°C
Vapour pressure mm/Hg	48 mm Hg @ 200C	Vapour density	2 - 3	Density [g/cm3]	1.41
Solubility in water [% weight]	Infinitely soluble				

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	69 - 70.0%
Colour scale	Max 10 APHA
Weight/ mL at 20°C	1.41 - 1.42 g
Residue on ignition	Max 0.0005%
Chloride (Cl)	Max 0.00005%
Phosphate and silicate (as SiO2)	Max 0.0001%
Sulphate (SO4)	Max 0.0001%
Arsenic (As)	Max 0.000001%
Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.00002%

Heavy metal (as Pb)	Max 0.00002%
Manganese (Mn)	Max 0.00004%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS05 Signal Word: Danger UN No.: 2031 IMCO Class No.: 8 (5.1) Packing Group: II Hazardous Statement: H272-H314 Precaution Statement: P220-P280-P305 + P351 + P338-P310

NITRIC ACID 69% EXTRAPURE

Hydrogen Nitrate

Product Code.	01835	Grade	Extrapure
Purity	69%	CAS No.	7697-37-2
Molecular Formula	HNO3	Molecular Weight	63.01
H.S.Code	2808.00100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to yellow	Odour	Suffocating odour
pH value	1	Boiling point [°C]	122 °C	Vapour pressure [20°C]	48 mm Hg @ 20°C
Vapour pressure mm/Hg	48 mm Hg @ 200C	Vapour density	2 - 3	Density [g/cm3]	1.41
Solubility in water [% weight]	Infinitely soluble				

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	69.0 - 72.0%
Weight/ mL at 20°C	1.41 - 1.42 g/ml
Non volatile matter	Max 0.01%
Hydrochloric acid (HCl)	Max 0.005%
Sulphuric acid (H2SO4)	Max 0.01%
Arsenic (As)	Max 0.0001%
Iron (Fe)	Max 0.005%
Lead (Pb)	Max 0.0005%
-	***May darken during storage as a result of photochemical reactions.

Safety Information and Hazard Symbols



Symbol: GHS03, GHS08

Signal Word: Danger

UN No.: 2031

IMCO Class No.: 8 (5.1)

Packing Group: II

Hazardous Statement: H272-H314

Precaution Statement: P220-P280-P305 + P351 + P338-P310

ORTHOPHOSPHORIC ACID 85% AR FOR STEEL INDUSTRY

Phosphoric Acid

Product Code.	02007	Grade	AR For Steel Industry
Purity	85%	CAS No.	7664-38-2
Molecular Formula	H3PO4	Molecular Weight	98.00
H.S.Code	2809.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	1.5	Melting point/ Freezing point [°C]	40 °C	Boiling point [°C]	158 °C
Vapour pressure [20°C]	0.03 mm Hg @ 20°C	Vapour pressure mm/Hg	0.03 mm Hg @ 200C	Vapour density	3.4
Density [g/cm3]	1.685	Solubility in water [% weight]	Completely miscible		

Packaging

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Specification

Appearance	Clear colorless viscous liquid
Assay	Min 85%
Weight/ mL at 20°C	About 1.71 g
Chloride (Cl)	Max 0.0005%
Nitrate (NO3)	Max 0.0005%
Silicate (SiO2)	Max 0.002%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max 0.004%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0015%
Lead (Pb)	Max 0.001%

Magnesium (Mg)	Max 0.004%
Manganese (Mn)	Max 0.0005%
Potassium (K)	Max 0.005%
Sodium (Na)	Max 0.05%
Substance reducing KMnO ₄ (as O)	Max 0.001%
Volatile acids (as CH ₃ .COOH)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS05
 Signal Word: Danger
 UN No.: 1805
 IMCO Class No.: 8
 Packing Group: III
 Hazardous Statement: H314
 Precaution Statement: P280-P305 + P351 + P338-P310

ORTHOPHOSPHORIC ACID 85% EXTRAPURE

Confirming to IP, BP Phosphoric Acid

Product Code.	02004	Grade	Extrapure
Purity	85%	CAS No.	7664-38-2
Molecular Formula	H3PO4	Molecular Weight	98.00
H.S.Code	2809.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	1.5	Melting point/ Freezing point [°C]	40 °C	Boiling point [°C]	158 °C
Vapour pressure [20°C]	0.03 mm Hg @ 20°C	Vapour pressure mm/Hg	0.03 mm Hg @ 200C	Vapour density	3.4
Density [g/cm3]	1.685	Solubility in water [% weight]	Completely miscible		

Packaging

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Specification

Appearance	Clear colorless viscous liquid
Assay (acidimetric)	84 - 90%
Solubility	To comply the test
Relative density	about 1.7
Identification	To comply the test
Appearance of solution	To comply the test
Substance precipitated by NH3	To comply the test
Hypophosphorous acid and phosphorous acid	To comply the test
Alkali phosphate	To comply the test
Aluminium and calcium (Al, Ca)	To comply the test
Chloride (Cl)	Max 0.005%

Sulphate (SO4)	Max 0.01%
Arsenic (As)	Max 0.0002%
Iron (Fe)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 1805 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

ORTHOPHOSPHORIC ACID 85% FOR HPLC & SPECTROSCOPY

Phosphoric acid

Product Code.	02008	Grade	HPLC & Spectroscopy
Purity	85%	CAS No.	7664-38-2
Molecular Formula	H3PO4	Molecular Weight	98.00
H.S.Code	2809.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	1.5	Melting point/ Freezing point [°C]	40 °C	Boiling point [°C]	158 °C
Vapour pressure [20°C]	0.03 mm Hg @ 20°C	Vapour pressure mm/Hg	0.03 mm Hg @ 200C	Vapour density	3.4
Density [g/cm3]	1.685	Solubility in water [% weight]	Completely miscible		

Packaging

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Specification

Appearance	Clear colourless viscous liquid.
Assay	Min 85.0%
Filter test (1:10 diluted)	In accordance
Density (at 25°C)	About 1.70 g/ml
Absorption maxima in 1 M solution	
at 210 nm	0.07
at 220 nm	0.05
at 230 nm	0.04
at 250 nm	0.04
at 500 nm	0.02

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 1805

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H314

Precaution Statement: P280-P305 + P351 + P338-P310

ORTHOPHOSPHORIC ACID 88% AR

Phosphoric Acid

Product Code.	02006	Grade	
Purity	88%	CAS No.	7664-38-2
Molecular Formula	H3PO4	Molecular Weight	98.00
H.S.Code	2809.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odourless
pH value	1.5	Melting point/ Freezing point [°C]	40	Boiling point [°C]	158
Vapour pressure [20°C]	0.03mm Hg	Vapour density	3.4	Density [g/cm3]	1.73
Solubility in water	Completely miscible				

Packaging

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Specification

Appearance	Clear colorless viscous liquid
Assay	88.0 - 90.0%
Weight/ mL at 20°C	About 1.73 g
Chloride (Cl)	Max 0.0005%
Nitrate (NO3)	Max 0.0005%
Silicate (SiO2)	Max 0.025%
Sulphate (SO4)	Max 0.002%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max 0.004%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0015%
Lead (Pb)	Max 0.001%

Magnesium (Mg)	Max 0.004%
Manganese (Mn)	Max 0.0005%
Potassium (K)	Max 0.005%
Substance reducing KMnO ₄ (as O)	Max 0.001%
Volatile acids (as CH ₃ COOH)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 1805

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H314

Precaution Statement: P280-P305 + P351 + P338-P310

PERCHLORIC ACID 20%
PCA

Product Code.	01953A	Grade	
Purity	20%	CAS No.	7601-90-3
Molecular Formula	HCIO4	Molecular Weight	100.46
H.S.Code	2811.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless	Relative density, liquid (water=1)	1.120 g/cm3
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Packaging

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Specification

Appearance	Clear colorless liquid
Assay	Min 20.0%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS05 Signal Word: Danger UN No.: 1802 IMCO Class No.: 8,5.1 Packing Group: II Hazardous Statement: H272-H290-H302-H314-H373 Precaution Statement: P210-P280-P301 + P312 - P330-P303 + P361 + P353-P304 + P340 + P310-P305 + P351 + P338 Risk Statement: 34 Safety Statement: 26-36/37/39-45

PERCHLORIC ACID 60% AR

Product Code.	01954	Grade	
Purity	60%	CAS No.	7601-90-3
Molecular Formula	HClO4	Molecular Weight	100.46
H.S.Code	2811.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odorless
Melting point/ Freezing point [°C]	-18 °C	Boiling point [°C]	203 °C	Vapour density	3.5
Density [g/cm3]	1.5 - 1.6	Solubility in water [% weight]	Infinitely soluble	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 1.

Packaging

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Specification

Appearance	A clear colourless liquid
Assay	60 - 62%
Colour scale	Max 10 Hazen
Residue on ignition (as SO4)	Max 0.003%
Matter insoluble in ethanol	Max 0.001%
Chlorate (ClO3)	Max 0.001%
Total nitrogen (N)	Max 0.001%
Chloride (Cl)	Max 0.0001%
Free chlorine (Cl)	Max 0.0005%
Nitrate (NO3)	Max 0.001%

Phosphate and silicate (as SiO ₂)	Max 0.0003%
Sulphate (SO ₄)	Max 0.0004%
Ammonium (NH ₄)	Max 0.0002%
Heavy metal (as Pb)	Max 0.0001%
Arsenic (As)	Max 0.000005%
Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.00005%
Lead (Pb)	Max 0.00001%
Manganese (Mn)	Max 0.00005%
Mercury (Hg)	Max 0.00001%
Potassium (K)	Max 0.002%
Silver (Ag)	Max 0.00001%
Sodium (Na)	Max 0.002%
Specific gravirty	1.54

Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS07, GHS08 Signal Word: Danger UN No.: 1873 IMCO Class No.: 5.1,8 Packing Group: I Hazardous Statement: H271-H290-H302-H314-H373 Precaution Statement: P210-P280-P303 + P361 + P353-P304 + P340 + P310-P305 + P351 + P338-P371 + P380 + P375 Risk Statement: R 5- 8-35 Safety Statement: S 23-26-36-45

PERCHLORIC ACID 70% AR

Suitable for diamond industry

Product Code.	01956	Grade	AR
Purity	70%	CAS No.	7601-90-3
Molecular Formula	HCIO4	Molecular Weight	100.46
H.S.Code	2811.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odorless
Melting point/ Freezing point [°C]	-18 °C	Boiling point [°C]	203 °C	Vapour pressure [20°C]	9 hPa at 20 °C
Vapour density	3.5	Density [g/cm3]	1.664 at 25 °C	Solubility in water [% weight]	Infinitely soluble
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 1.				

Packaging

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Specification

Appearance	A clear colourless liquid
Colour scale	Max 10 APHA
Assay	69 - 72%
Chloride (Cl)	Max 0.001%
Heavy metal (as Pb)	Max 0.0001%
Iron (Fe)	Max 0.0001%
Nitrogen compounds (as N)	Max 0.001%
Residue on ignition	Max 0.003%
Silicate and phosphates (as SiO2)	Max 0.0005%
Sulphate (SO4)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 1873

IMCO Class No.: 5.1,8

Packing Group: I

Hazardous Statement: H271-H290-H302-H314-H373

Precaution Statement: P210-P260-P280-P305 + P351 + P338-P370 + P378-P371 + P380 + P375

Risk Statement: R 5- 8-35

Safety Statement: S 23-26-36-45

PERCHLORIC ACID, CA.70% SOLUTION IN WATER, EXTRAPURE

Product Code.	1956B	Grade	EXTRAPURE
Purity	70%	CAS No.	7601-90-3
Molecular Formula	HClO4	Molecular Weight	100.46
H.S.Code	2811.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear	Odour	Odorless
Melting point/ Freezing point [°C]	-18 °C	Boiling point [°C]	203 °C	Vapour pressure [20°C]	9 hPa at 20 °C
Vapour density	3.5	Density [g/cm3]	1.664 at 25 °C	Solubility in water [% weight]	Infinitely soluble
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 1.				

Packaging



Specification

Appearance	Clear solution
Colour scale	Max 10 APHA
Titration with NaOH	69 - 72%
Residue after ignition	Max 0.003%
Heavy metal (ICP-OES)	Max 1 ppm
Chloride (Cl)	Max 10 ppm
Sulfate (SO4)	Max 10 ppm

Iron (Fe)

Max 1 ppm

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 1873

IMCO Class No.: 5.1,8

Packing Group: I

Hazardous Statement: H271-H290-H302-H314-H373

Precaution Statement: P210-P260-P280-P305 + P351 + P338-P370 + P378-P371 + P380 + P375

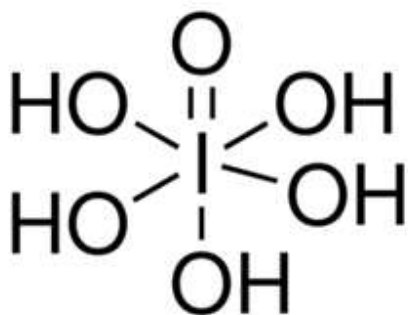
Risk Statement: R 5- 8-35

Safety Statement: S 23-26-36-45

PERIODIC ACID 99.5% AR

Reagent for periodate oxidimetry, for oxidimetric titration, for histochemical polysaccharide analysis.
Paraperiodic acid

Product Code.	01963	Grade	
Purity	99.5%	CAS No.	10450-60-9
Molecular Formula	H5IO6	Molecular Weight	227.94
H.S.Code	2811.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight characteristic odor
Melting point/ Freezing point [°C]	122 °C	Boiling point [°C]	130 - 140°C	Initial boiling point [°C]	130°C
Final boiling point [°C]	140°C	Vapour density	7.9	Solubility in water [% weight]	Soluble in water
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2				

Packaging

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Specification

Appearance	White crystalline powder
Assay (iodometric)	Min 99.5%

Residue on ignition	Max 0.5%
Foreign halogens (as Cl)	Max 0.01%
Iodide (I)	Max 0.001%
Sulphate (SO ₄)	Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05

Signal Word: Danger

UN No.: 3085

IMCO Class No.: 5.1,8

Packing Group: II

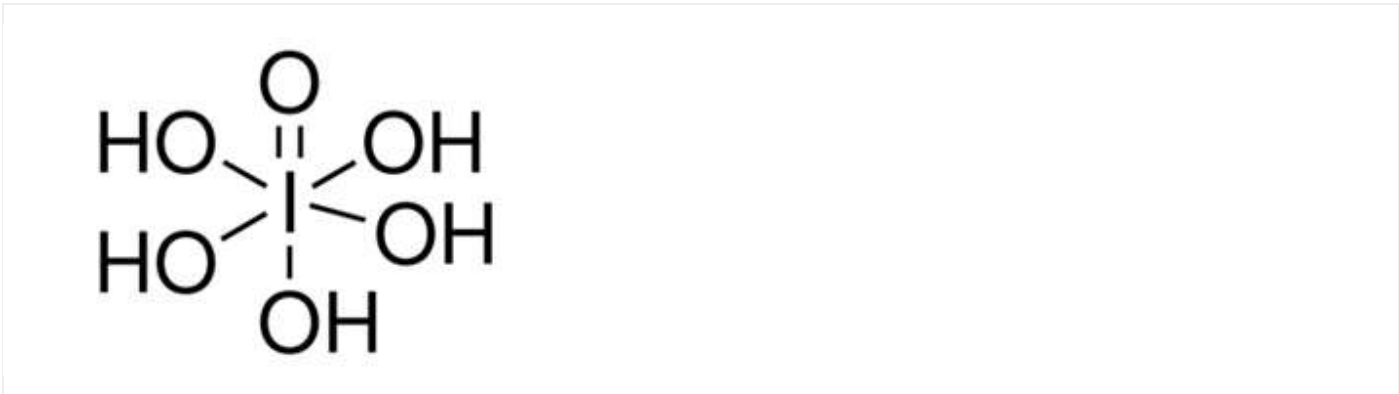
Hazardous Statement: H272-H314

Precaution Statement: P220-P280-P305 + P351 + P338-P310

PERIODIC ACID 99% FOR SYNTHESIS

Paraperiodic acid

Product Code.	01962	Grade	For Synthesis
Purity	99%	CAS No.	10450-60-9
Molecular Formula	H5IO6	Molecular Weight	227.94
H.S.Code	2811.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight characteristic odor
Melting point/ Freezing point [°C]	122 °C	Boiling point [°C]	130 - 140°C	Initial boiling point [°C]	130°C
Final boiling point [°C]	140°C	Vapour density	7.9	Solubility in water [% weight]	Soluble in water
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2				

Packaging

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Specification

Appearance	White to light yellow crystalline powder or crystals
Assay (iodometric)	Min 99.0%
Melting point	124 - 127°C

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05

Signal Word: Danger

UN No.: 3085

IMCO Class No.: 5.1,8

Packing Group: II

Hazardous Statement: H272-H314

Precaution Statement: P220-P280-P305 + P351 + P338-P310

PHOSPHOTUNGSTIC ACID AR
dodeca-tungsto phosphoric acid

Product Code.	02022	Grade	AR
Purity		CAS No.	12501-23-4
Molecular Formula	H3[P(W3O10)4]xH2O	Molecular Weight	2880.17
H.S.Code	2811.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White to yellowish	Odour	Odorless
Melting point/ Freezing point [°C]	95 °C	Solubility in water [% weight]	200 g/100 g water		

Specification

Appearance	White to yellow to beige to grey powder or crystals
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%
Total nitrogen (N)	Max 0.002%
Lead (Pb)	Max 0.002%
Iron (Fe)	Max 0.002%
Potassium (K)	Max 0.02%
Copper (Cu)	Max 0.001%
Sodium (Na)	Max 0.02%
Loss on ignition (at 750°C)	Max 17%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3260 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

PHOSPHOTUNGSTIC ACID REAGENT

Reagent for microscopy. dodeca-tungsto phosphoric acid ((anhydr. basis)

Product Code.	02023	Grade	
Purity		CAS No.	12501-23-4
Molecular Formula	H3[P(W3O10)4]xH2O	Molecular Weight	2880.17
H.S.Code	2811.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White to yellowish	Odour	Odorless
Melting point/ Freezing point [°C]	95 °C	Solubility in water [% weight]	200 g/100 g water		

Specification

Appearance	White or yellowish green crystalline powder
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%
Total nitrogen (N)	Max 0.002%
Lead (Pb)	Max 0.002%
Iron (Fe)	Max 0.002%
Potassium (K)	Max 0.02%
Copper (Cu)	Max 0.001%
Sodium (Na)	Max 0.02%
Loss on ignition (at 750°C)	Max 17%

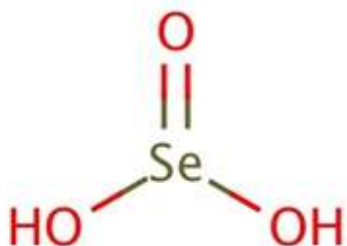
Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3260 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

SELENOUS ACID 93% EXTRAPURE

Confirms to USP Selenious acid

Product Code.	02291	Grade	
Purity	93%	CAS No.	7783-00-8
Molecular Formula	H ₂ SeO ₃	Molecular Weight	128.97
H.S.Code	2811.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	7
Melting point/ Freezing point [°C]	70 °C	Density [g/cm ³]	3.004	Solubility in water [% weight]	Soluble in cold water

Specification

Appearance	White crystalline powder
Assay (as H ₂ SeO ₃)	93 - 101%
Residue on ignition (as SO ₄)	Max 0.01%
Selenate and sulphate	Passes USP test
Insoluble matter	1 gm in 5 ml water gives clear solution

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 3283

IMCO Class No.: 6.1

Packing Group: II

Hazardous Statement: H301-H331-H373-H410

Precaution Statement: P261-P273-P301 + P310-P311-P501

SILICOTUGSTIC ACID 99.5% AR

Tungstosilicic acid hydrate

Product Code.	02313	Grade	
Purity	99%	CAS No.	12027-43-9
Molecular Formula	H4(SiW12O40)xH2O	Molecular Weight	2878.17
H.S.Code	2811.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Slight yellow	Odour	Odorless
pH value	Acidic	Melting point/ Freezing point [°C]	25°C	Density [g/cm3]	4.5
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	Slightly yellow colored powder
Assay	Min 99%
Chloride (Cl)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Total nitrogen (N)	Max 0.002%
Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.001%
Sodium (Na)	Max 0.02%
Potassium (K)	Max 0.02%
Loss on ignition (at 750°C)	Max 16.0%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

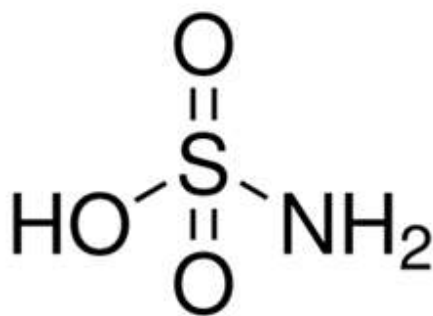
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

SULPHAMIC ACID 99.5% AR

Amidosulfonic acid

Product Code.	02588	Grade	
Purity	99.5%	CAS No.	5329-14-6
Molecular Formula	H ₂ NSO ₃ H	Molecular Weight	97.09
H.S.Code	2811.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	1.18	Melting point/ Freezing point [°C]	215 - 225 °C	Vapour density	3.3
Density [g/cm ³]	2.15	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	White to off-white crystals ,crystalline powder / fine powder
Assay (alkalimetric)	Min 99.5%
Chloride (Cl)	Max 0.001%
Sulphate (SO ₄)	Max 0.05%

Nitrate (NO3)	Max 0.002%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Residue on ignition	Max 0.02%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning UN No.: 2967 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H315-H319-H412 Precaution Statement: P273-P305 + P351 + P338

SULPHAMIC ACID 99% EXTRAPURE

Product Code.	2587A	Grade	Extrapure
Purity	99%	CAS No.	5329-14-6
Molecular Formula	H2NSO3H	Molecular Weight	97.09
H.S.Code	2811.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	1.18	Melting point/ Freezing point [°C]	215 - 225 °C	Vapour density	3.3
Density [g/cm3]	2.15	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 99.0%
Residue on ignition	Max 0.2%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

UN No.: 2967

IMCO Class No.: 8

Packing Group: III

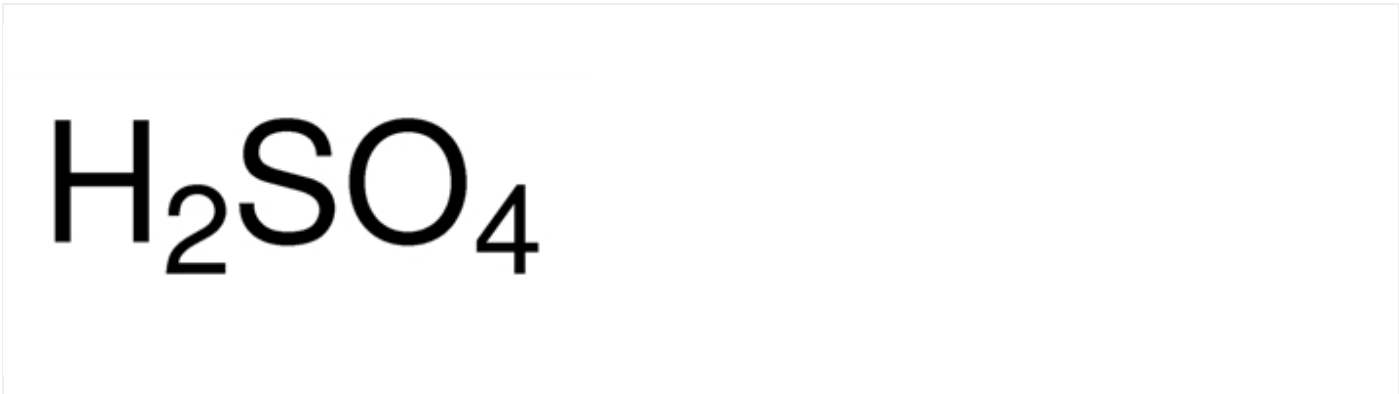
Hazardous Statement: H315-H319-H412

Precaution Statement: P273-P305 + P351 + P338

SULPHURIC ACID 25% AR (FOR ANALYSIS)

Hydrogen sulfate; Oil of vitriol; Vitriol brown oil; Mattling acid; Battery Acid

Product Code.	02602	Grade	AR
Purity	25%	CAS No.	7664-93-9
Molecular Formula	H2SO4	Molecular Weight	98.08
H.S.Code	2807.00100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	Acidic	Boiling point [°C]	290°C	Vapour density	3.4
Density [g/cm3]	1.13	Solubility in water [% weight]	Miscible in water		

Packaging

Specification

Appearance	A Clear liquid, not more than 10 hazen unit color
Assay (alkalimetric)	Min 25.0%
Non - volatile matter	Max.0.002%
Chloride (Cl)	Max.0.00002%
Nitrate (NO3)	Max.0.00002%
Ammonium	Max.0.0002%
Arsenic (As)	Max.0.000005%

Copper (Cu)	Max.0.00001%
Iron (Fe)	Max 0.0001%
Lead (Pb)	Max 0.0001%
Selenium (Se)	Max.0.001%
Substance reducing KMnO4 (as O)	Max.0.0001%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 2796

IMCO Class No.: 8

Packing Group: II

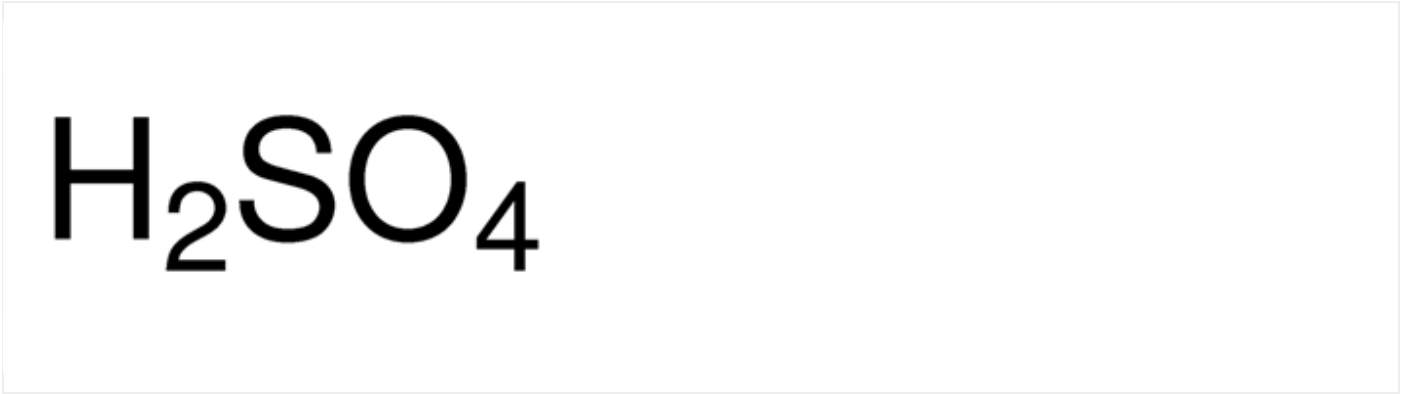
Hazardous Statement: H314

Precaution Statement: P280-P305 + P351 + P338-P310

SULPHURIC ACID 40% AR

For Determination of Gas Metabolism according to Knipping. Hydrogen sulfate; Oil of vitriol; Vitriol brown oil; Mattling acid; Battery Acid

Product Code.	02603	Grade	
Purity	40%	CAS No.	7664-93-9
Molecular Formula	H2SO4	Molecular Weight	98.08
H.S.Code	3822.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	Acidic	Boiling point [°C]	290°C	Vapour density	3.4
Density [g/cm3]	1.3	Solubility in water [% weight]	Miscible in water		

Packaging

Specification

Appearance	A Clear liquid, not more than 10 hazen unit color
Assay (alkalimetric)	~40.0% in H2O
KMnO4 reducing matter (as SO2)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 2796

IMCO Class No.: 8

Packing Group: II

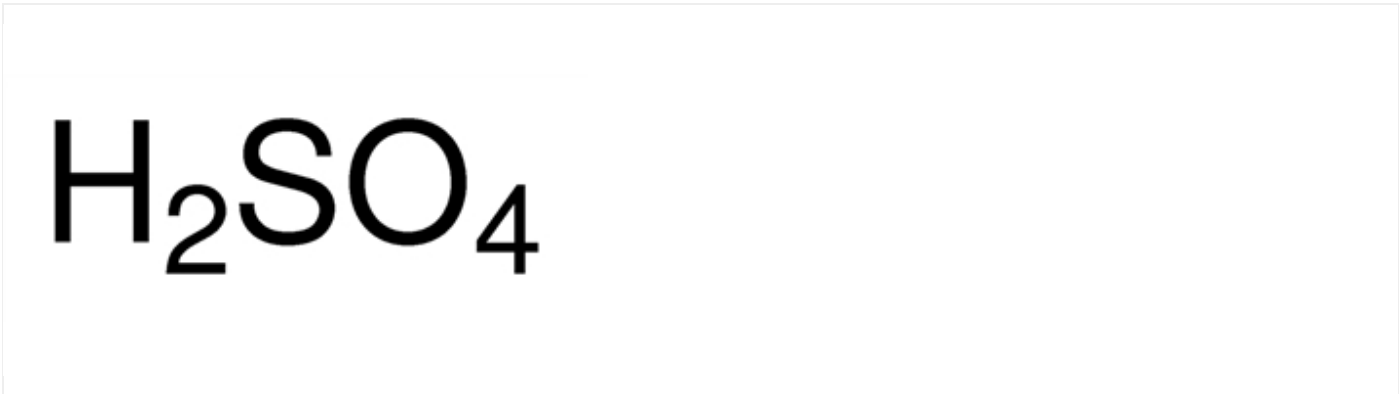
Hazardous Statement: H314

Precaution Statement: P280-P305 + P351 + P338-P310

SULPHURIC ACID 98% AR

Hydrogen sulfate; Oil of vitriol; Vitriol brown oil; Mattling acid; Battery Acid

Product Code.	02600	Grade	AR
Purity	98%	CAS No.	7664-93-9
Molecular Formula	H2SO4	Molecular Weight	98.08
H.S.Code	2807.00100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	Acidic	Boiling point [°C]	290°C	Vapour density	3.4
Density [g/cm3]	1.84	Solubility in water [% weight]	Miscible in water		

Packaging

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Specification

Appearance	A Clear oily liquid, not more than 10hazen unit color
Assay (alkalimetric)	Min 98%
Non volatile matter	Max 0.002%
Chloride (Cl)	Max 0.00002%
Nitrate (NO3)	Max 0.00002%
Ammonium (NH4)	Max 0.0002%
Arsenic (As)	Max 0.000005%

Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.0001%
Lead (Pb)	Max 0.0001%
Selenium (Se)	Max 0.001%
Substance reducing KMnO4 (as O)	Max 0.0001%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 1830

IMCO Class No.: 8

Packing Group: II

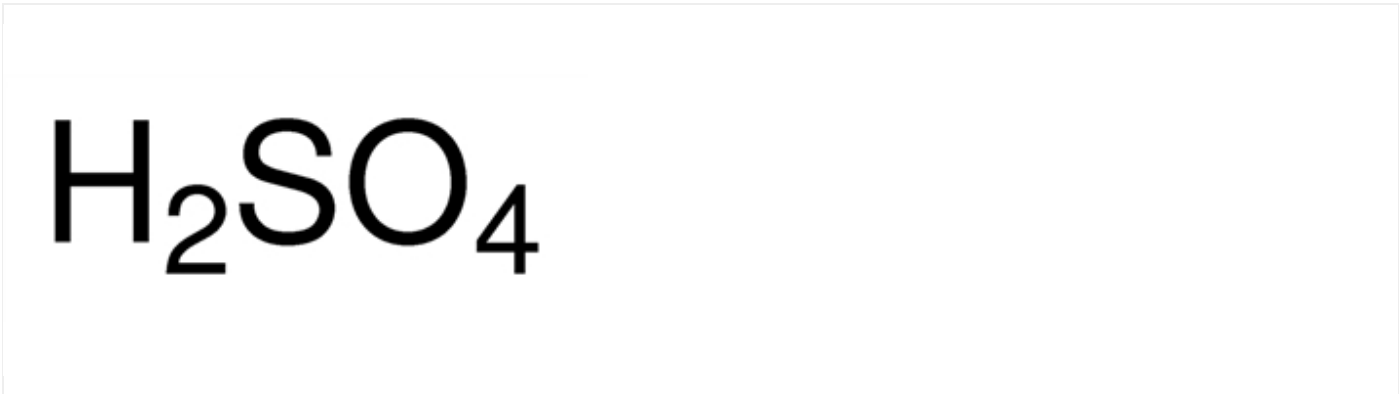
Hazardous Statement: H314

Precaution Statement: P280-P305 + P351 + P338-P310

SULPHURIC ACID 98% EXTRAPURE

Hydrogen sulfate; Oil of vitriol; Vitriol brown oil; Mattling acid; Battery Acid

Product Code.	02599	Grade	Extrapure
Purity	98%	CAS No.	7664-93-9
Molecular Formula	H2SO4	Molecular Weight	98.08
H.S.Code	2807.00100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Odorless
pH value	Acidic	Boiling point [°C]	290°C	Vapour density	3.4
Density [g/cm3]	1.84	Solubility in water [% weight]	Miscible in water		

Packaging

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Specification

Appearance	A clear, oily liquid
Assay (alkalimetric)	Min 98%
Chloride (Cl)	Max 0.0002%
Nitrate (NO3)	Max 0.0005%
Heavy metal (as Pb)	Max 0.0005%
Ammonium (NH4)	Max 0.0005%
Arsenic (As)	Max 0.00001%

Iron (Fe)	Max 0.0002%
Substance reducing KMnO ₄ (as O)	Max 0.0002%
Residue on ignition	Max 0.005%
Weight/ mL at 20°C	About 1.84 g/ml

Safety Information and Hazard Symbols



Symbol: GHS05
 Signal Word: Danger
 UN No.: 1830
 IMCO Class No.: 8
 Packing Group: II
 Hazardous Statement: H314
 Precaution Statement: P280-P305 + P351 + P338-P310

TUNGSTIC ACID 99% AR

Catalyst for oxidation of sulphides to sulphones. Orthotungstic acid; Dihydroxy-dioxotungsten

Product Code.	02799	Grade	
Purity	99%	CAS No.	3/1/7783
Molecular Formula	H2WO4	Molecular Weight	249.87
H.S.Code	2825.90900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow powder	Odour	Odorless
pH value	4 at 100 g/l at 20 °C	Melting point/ Freezing point [°C]	> 100 °C	Boiling point [°C]	1473°C
Density [g/cm3]	5.5	Solubility in water [% weight]	Insoluble in water		

Specification

Appearance	Yellow powder
Assay	Min 99%
Chloride (Cl)	Max 0.05%
Sulphate (SO4)	Max 0.02%
Iron (Fe)	Max 0.001%

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