

Неорганические соли

Технические характеристики

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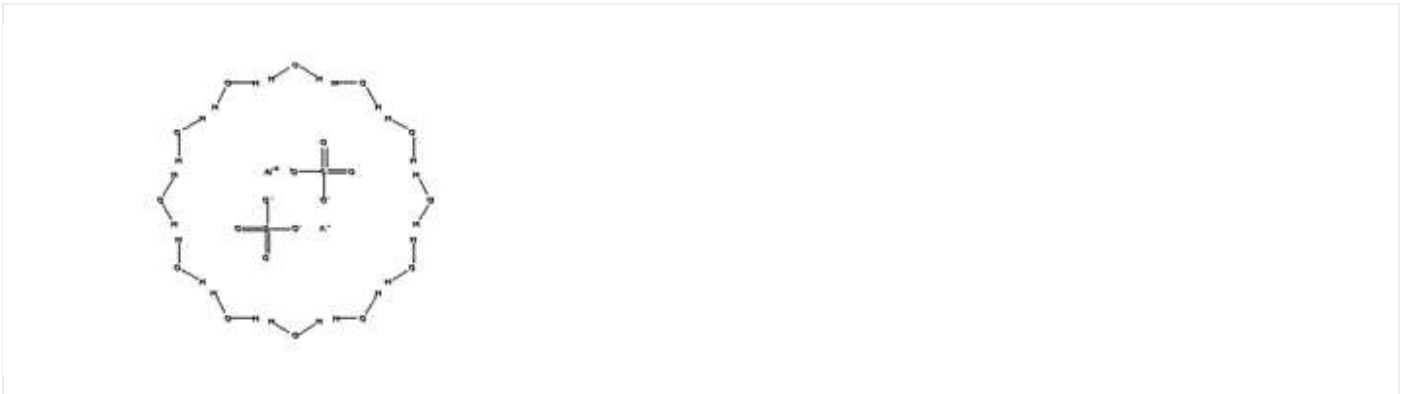
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ALUMINIUM POTASSIUM SULPHATE DODECAHYDRATE 99% EXTRAPURE

Alum, Potassium alum, Potassium aluminium sulfate dodecahydrate

Product Code.	00130	Grade	Extrapure
Purity	99%	CAS No.	7784-24-9
Molecular Formula	AlK(SO4)2.12H2O	Molecular Weight	474.38
H.S.Code	2833.30300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3.3	Melting point/ Freezing point [°C]	92 °C	Boiling point [°C]	200°C
Density [g/cm3]	1.757	Solubility in water [% weight]	14% in water		

Packaging



Specification

Appearance	White crystalline powder/crystals
Assay (ex Al)	99 - 102%
Ammonium (NH4)	Max 0.05%
Chloride (Cl)	Max 0.01%

Iron (Fe)	Max 0.01%
Lead (Pb)	Max 0.01%

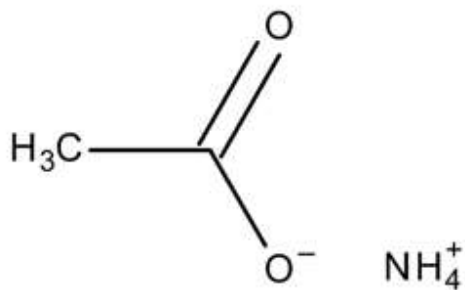
Safety Information and Hazard Symbols

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AMMONIUM ACETATE 96% EXTRAPURE

Acetic Acid Ammonium Salt

Product Code.	00176	Grade	
Purity	Min. 96%	CAS No.	631-61-8
Molecular Formula	CH ₃ .COONH ₄	Molecular Weight	77.08
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight acetic acid odor
pH value	6.5 - 7.5	Melting point/ Freezing point [°C]	110 - 112 °C	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	Colorless hygroscopic crystals with faint odor
Assay (ex NH ₃)	Min 96%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.01%

Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.001%

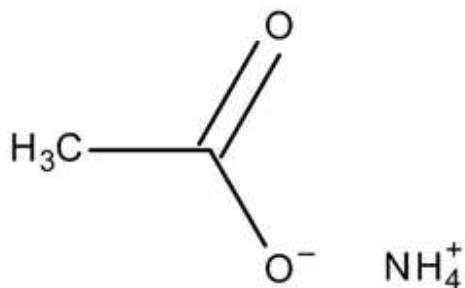
Safety Information and Hazard Symbols

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AMMONIUM ACETATE 98% AR

Acetic Acid Ammonium Salt

Product Code.	00177	Grade	AR
Purity	98%	CAS No.	631-61-8
Molecular Formula	CH ₃ .COONH ₄	Molecular Weight	77.08
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight acetic acid odor
pH value	6.5 - 7.5	Melting point/ Freezing point [°C]	110 - 112 °C	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	Colorless hygroscopic crystals with faint odor
Assay	Min 98%
Insoluble matter (10% in water)	Max 0.005%
pH (5% solution; 25°C)	pH 6.7-7.3

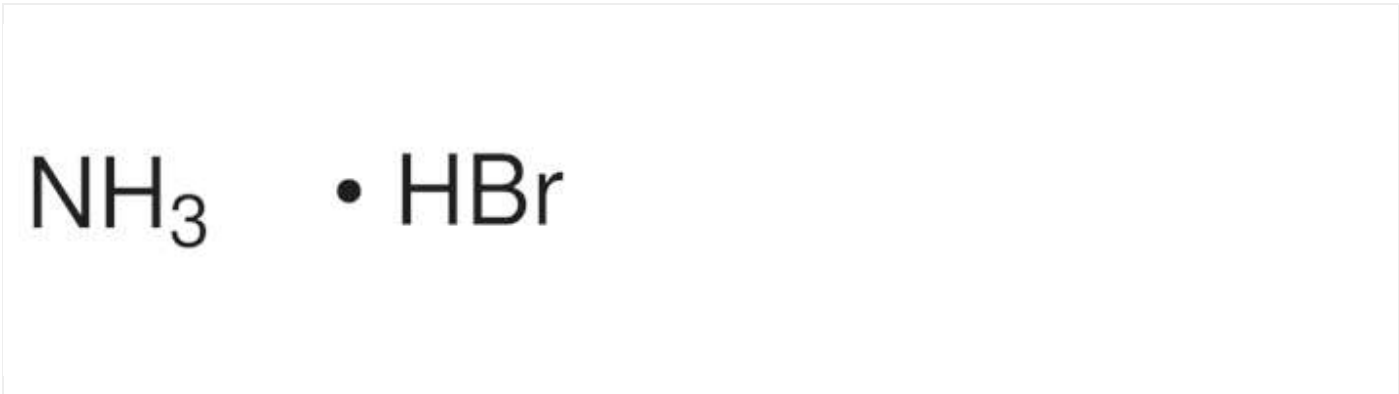
Phosphate (PO4)	Max 0.0005%
Chloride (Cl)	Max 0.0005%
Nitrate (NO3)	Max 0.001%
Sulphate (SO4)	Max 0.001%
Iron (Fe)	Max 0.0005%
Heavy metal (as Pb)	Max 0.0005%
Residue on ignition (as ash)	Max 0.01%
Reducing substances by KMnO4 (as O)	Max 0.005%
Water (H2O)	Max 2.0%

Safety Information and Hazard Symbols

AMMONIUM BROMIDE 99.5% AR

Hydrobromic Acid Monoammoniate

Product Code.	00189	Grade	
Purity	Min. 99%	CAS No.	12124-97-9
Molecular Formula	NH4Br	Molecular Weight	97.94
H.S.Code	2827.59900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 6.5	Melting point/ Freezing point [°C]	452 °C	Vapour pressure mm/Hg	1 mm Hg at 198 °C
Density [g/cm3]	2.43	Solubility in water [% weight]	97g/100g water @ 250C		

Packaging



Specification

Appearance	White crystalline powder
Assay (argentometric)	Min. 99.5%
Insoluble matter (13.33% in water)	Max 0.005%

pH (5% solution in water; 25°C)	4.5-6.0
Residue on ignition	Max 0.01%
Bromate (BrO ₃)	Max 0.002%
Chloride (Cl)	Max 0.2%
Iodide (I)	Max 0.005% (Passes ACS test)
Sulphate (SO ₄)	Max 0.005%
Barium (Ba)	Max 0.002%
Iron (Fe)	Max 0.0005%
Heavy metal (as Pb)	Max 0.0005%

Safety Information and Hazard Symbols

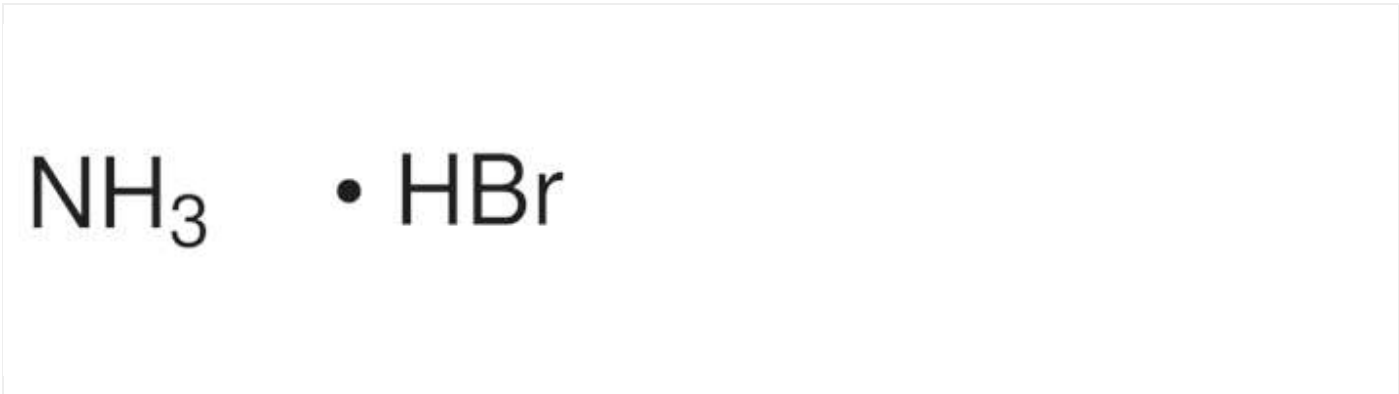


Symbol: GHS07
 Signal Word: Warning
 Hazardous Statement: H319
 Precaution Statement: P305 + P351 + P338

AMMONIUM BROMIDE 99% EXTRAPURE

Hydrobromic Acid Monoammoniate

Product Code.	00188	Grade	Extrapure
Purity	99%	CAS No.	12124-97-9
Molecular Formula	NH4Br	Molecular Weight	97.94
H.S.Code	2827.59900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 6.5	Melting point/ Freezing point [°C]	452 °C	Vapour pressure mm/Hg	1 mm Hg at 198 °C
Density [g/cm3]	2.43	Solubility in water [% weight]	97g/100g water @ 250C		

Packaging



Specification

Appearance	White to almost white crystalline powder
Assay (ex Br)	Min 99.0%
Chloride (Cl)	Max 0.5%

Sulphate (SO4)	Max 0.05%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.001%

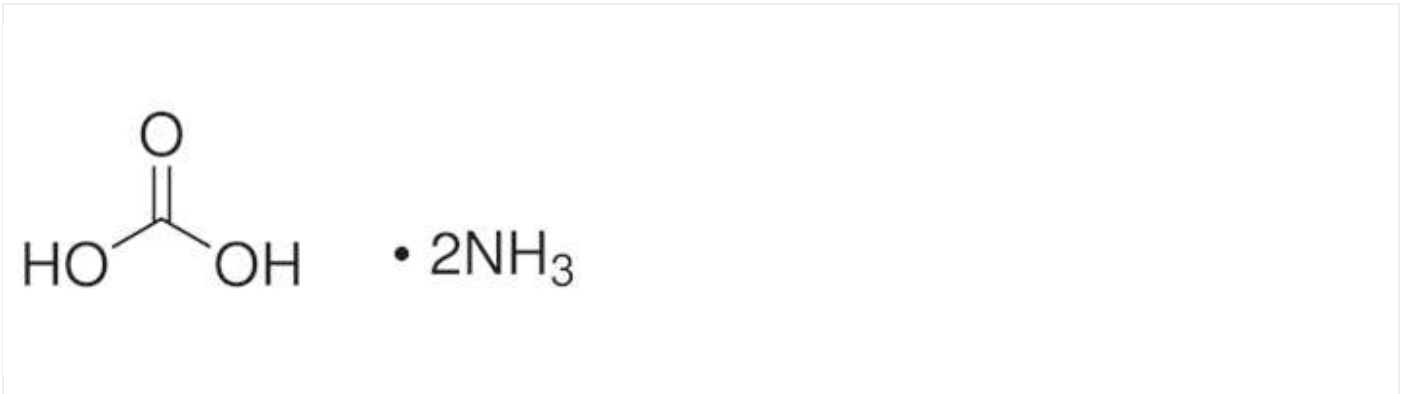
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H319 Precaution Statement: P305 + P351 + P338

AMMONIUM CARBONATE AR

NH3 equivalent to 95.3% of NH4HCO3.NH2COONH4 Hartshorn salt

Product Code.	00191	Grade	AR
Purity		CAS No.	506-87-6
Molecular Formula	NH4HCO3.NH2COONH4	Molecular Weight	96.09
H.S.Code	2836.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Strong ammonia-like odor
pH value	9	Melting point/ Freezing point [°C]	58 °C	Vapour pressure mm/Hg	760 mm Hg @ 600C
Density [g/cm3]	1.5	Solubility in water [% weight]	Soluble in water		

Packaging

Specification

Appearance	White powder or crystals and/or chunks having ammonical odour
Assay (as NH3)	Min. 31.0%
Insoluble matter in water	Max. 0.005%
Chloride (Cl)	Max. 0.0005%
Sulphur compounds (as SO4)	Max. 0.002%

Iron (Fe)	Max. 0.0005%
Heavy metal (as Pb)	Max. 0.0005%
Non volatile matter	Max. 0.01%

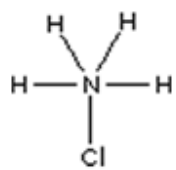
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

AMMONIUM CHLORIDE 99.5% AR

Salmiac

Product Code.	00199	Grade	
Purity	Min 99.5%	CAS No.	12125-02-9
Molecular Formula	NH4Cl	Molecular Weight	53.49
H.S.Code	2827.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.5 - 5.5	Melting point/ Freezing point [°C]	340°C	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White crystalline powder
Assay (as NH ₄ Cl; on anhydrous basis)	Min 99.5%
pH (5% solution in water; 25°C)	4.5 - 5.5
Insoluble matter (10% in water)	Max 0.005%
Residue on ignition	Max 0.01%

Calcium (Ca)	Max 0.001%
Magnesium (Mg)	Max 0.0005 %
Heavy metals (by ICP-OES)	Max 0.0005%
Iron (Fe)	Max 0.0002%
Phosphate (PO4)	Max 0.0002%
Sulphate (SO4)	Max 0.002%

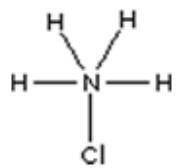
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H319 Precaution Statement: P305 + P351 + P338

AMMONIUM CHLORIDE 99% EXTRAPURE

Confirming to IP, BP Salmiac

Product Code.	00198	Grade	Extrapure
Purity	Min. 99%	CAS No.	12125-02-9
Molecular Formula	NH4Cl	Molecular Weight	53.49
H.S.Code	2827.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.5 - 5.5	Melting point/ Freezing point [°C]	340°C	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White crystalline powder
Assay (argentometric)	Min 99%
Sulphate (SO4)	Max 0.015%
Heavy metal (as Pb)	Max 0.001%

Arsenic (As)	Max 0.0003%
Lead (Pb)	Max 0.001%
Calcium (Ca)	Max 0.02%
Iron (Fe)	Max 0.002%
Copper (Cu)	Max 0.0025%
Zinc (Zn)	Max 0.0025%
Residue on ignition (at 800°C)	Max 0.1%
Iodide, Bromide (I, Br)	Passes test
pH (5% solution)	4.5-5.5
Identity	Passes test
Clarity of solution	Passes test
Acidity or alkalinity	Passes test
Loss on drying (at 105°C)	Max 0.5%
Thiocyanate (SCN)	Passes test

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H319 Precaution Statement: P305 + P351 + P338

AMMONIUM FERRIC SULPHATE DODECAHYDRATE 98.5% AR

Ammonium iron (III) sulphate dodecahydrate ; (Ferric Alum)

Product Code.	00207	Grade	AR
Purity	98.5%	CAS No.	7783-83-7
Molecular Formula	NH ₄ Fe(SO ₄) ₂ .12H ₂ O	Molecular Weight	482.19
H.S.Code	2833.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale violet crystals	Odour	Odorless
pH value	1	Melting point/ Freezing point [°C]	39 - 41 °C	Density [g/cm ³]	1.71
Solubility in water [% weight]	482.2 g/l at 20 °C				

Packaging



Specification

Appearance	Pale violet crystals
Assay (iodometric)	98.5 - 102%
Insoluble matter	Max 0.01%
Chloride (Cl)	Max 0.001%

Ferrous ion (Fe2+)	Passes test (about 0.001%)
Nitrate (NO3)	Max 0.01%
Calcium (Ca)	Max 0.01%
Magnesium (Mg)	Max 0.005%
Potassium (K)	Max 0.005%
Sodium (Na)	Max 0.02%
Copper (Cu)	Max 0.003%
Zinc (Zn)	Max 0.003%
Substance not preprecipitated by NH3 (as SO4)	Max 0.05%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319 Precaution Statement: P305 + P351 + P338

AMMONIUM FERRIC SULPHATE DODECAHYDRATE 98% EXTRAPURE

Ammonium iron (III) sulphate dodecahydrate , (Ferric Alum)

Product Code.	00206	Grade	Extrapure
Purity	98%	CAS No.	7783-83-7
Molecular Formula	NH ₄ Fe(SO ₄) ₂ .12H ₂ O	Molecular Weight	482.19
H.S.Code	2833.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale violet crystals	Odour	Odorless
pH value	1	Melting point/ Freezing point [°C]	39 - 41 °C	Density [g/cm ³]	1.71
Solubility in water [% weight]	482.2 g/l at 20 °C				

Packaging



Specification

Appearance	Pale violet crystals
Assay (iodometric)	98.0 - 101.0%
Chloride (Cl)	Max 0.002%
Zinc (Zn)	Max 0.005%

Lead (Pb)	Max 0.002%
Iron II Fe(II)	Max 0.002%
Copper (Cu)	Max 0.002%
Substance not precepitated by NH3 (as SO4)	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

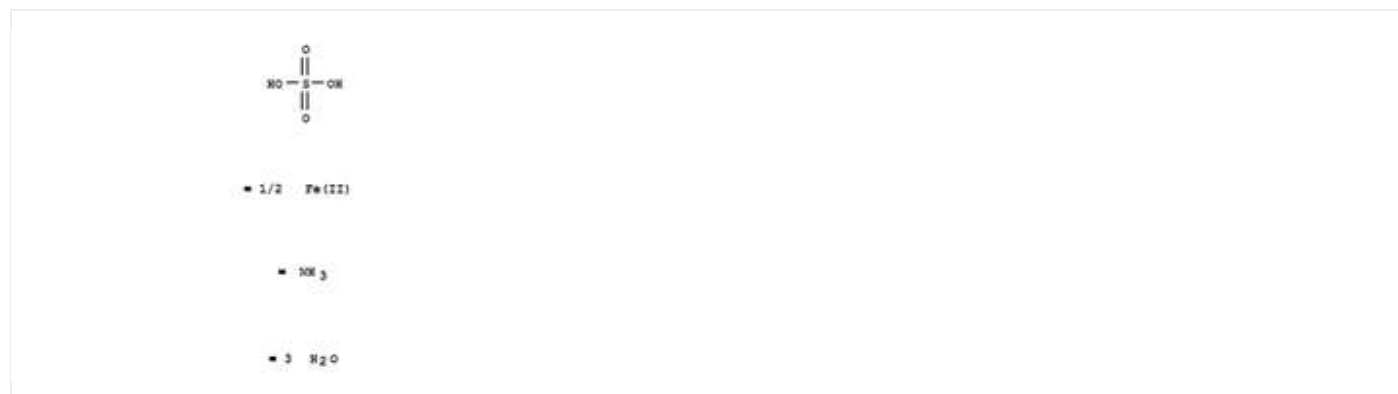
Hazardous Statement: H315-H319

Precaution Statement: P305 + P351 + P338

AMMONIUM FERROUS SULPHATE HEXAHYDRATE 98.5% EXTRAPURE

Ammonium iron (II) sulphate, Diammonium iron(II) sulphate, Mohr's salt

Product Code.	00208	Grade	Extrapure
Purity	Min 98.5%	CAS No.	7783-85-9
Molecular Formula	(NH ₄) ₂ SO ₄ FeSO ₄ ·6H ₂ O	Molecular Weight	392.13
H.S.Code	2842.90900	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Greenish blue crystals	Odour	Odorless
Melting point/ Freezing point [°C]	100 °C	Vapour density	> 1	Density [g/cm ³]	1.86
Solubility in water [% weight]	26.9 g/100cc water @ 200C				

Packaging



Specification

Appearance	Greenish blue crystals/crystalline powder
Assay (oxidimetric)	Min 98.5%
Chloride (Cl)	Max 0.005%

Ferric ion (Fe)

Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

AMMONIUM FERROUS SULPHATE HEXAHYDRATE 99% AR

Ammonium iron (II) sulphate, Diammonium iron(II) sulphate, Mohr's salt

Product Code.	00209	Grade	AR
Purity	99%	CAS No.	7783-85-9
Molecular Formula	(NH ₄) ₂ SO ₄ FeSO ₄ ·6H ₂ O	Molecular Weight	392.13
H.S.Code	2842.90900	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Greenish blue crystals	Odour	Odorless
Melting point/ Freezing point [°C]	100 °C	Vapour density	> 1	Density [g/cm ³]	1.86
Solubility in water [% weight]	26.9 g/100cc water @ 200C				

Packaging



Specification

Appearance	Greenish blue crystals/crystalline powder
Assay (oxidimetric)	99.0 - 101.5%
Insoluble matter	Max 0.01%

Phosphate (PO ₄)	Max 0.003%
Calcium (Ca)	Max 0.005%
Copper (Cu)	Max 0.003%
Ferric ion (Fe)	Max 0.01%
Manganese (Mn)	Max 0.01%
Magnesium (Mg)	Max 0.002%
Potassium (K)	Max 0.002%
Sodium (Na)	Max 0.02%
Substance not precipitated by NH ₄ OH	Max 0.05%
Zinc (Zn)	Max 0.003%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

AMMONIUM FLUORIDE 95% EXTRAPURE

Product Code.	00210	Grade	Extrapure
Purity	95%	CAS No.	12125-01-8
Molecular Formula	NH4F	Molecular Weight	37.04
H.S.Code	2826.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	Aqueous solution is an acid	Melting point/ Freezing point [°C]	Sublimes upon heating	Density [g/cm3]	1.01
Solubility in water [% weight]	100 g/100 ml water @ 0C				

Packaging



Specification

Appearance	White Crystalline powder, crystals, granules or chunks
Assay (alkalimetric)	Min 95.0%
Sulphate (SO4)	Max 0.02%

Chloride (Cl)	Max 0.005%
Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.002%

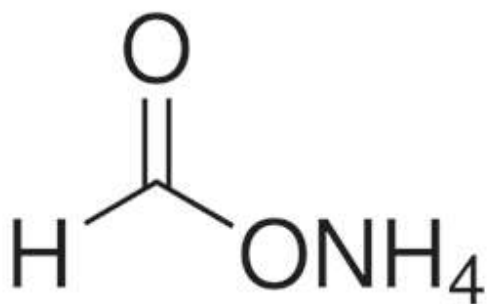
Safety Information and Hazard Symbols


Symbol: GHS06 Signal Word: Danger UN No.: 2505 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H311-H331 Precaution Statement: P261-P280-P301 + P310-P311

AMMONIUM FORMATE 97% EXTRAPURE

Formic acid ammonium salt

Product Code.	00212	Grade	Extrapure
Purity	97%	CAS No.	540-69-2
Molecular Formula	CH5NO2	Molecular Weight	63.06
H.S.Code	2915.12900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight formic acid odour
pH value	6 - 7	Melting point/ Freezing point [°C]	119 - 121 °C	Density [g/cm3]	1.28
Solubility in water [% weight]	63.1 g/l at 20 °C - completely soluble				

Packaging



Specification

Appearance	Colourless deliquescent crystals
Assay	Min 97.0%
pH (5% solution)	6.0 - 7.0

Heavy metal (as Pb)	Max 0.002%
Chloride (Cl)	Max 0.005%
Iron (Fe)	Max 0.002%
Sulphate (SO4)	Max 0.01%

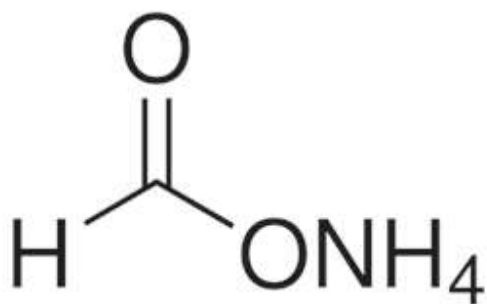
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

AMMONIUM FORMATE 98% AR

Formic acid ammonium salt

Product Code.	00213	Grade	AR
Purity	98%	CAS No.	540-69-2
Molecular Formula	CH5NO2	Molecular Weight	63.06
H.S.Code	2915.12900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight formic acid odour
pH value	6 - 7	Melting point/ Freezing point [°C]	119 - 121 °C	Density [g/cm3]	1.28
Solubility in water [% weight]	63.1 g/l at 20 °C - completely soluble				

Packaging



Specification

Appearance	Colorless deliquescent crystals
Assay	Min 98.0%
Insoluble matter	Max 0.001%

Reaction (10% solution)	pH 5.5-7.5
Residue on ignition	Max 0.01%
Chloride (Cl)	Max 0.001%
Sulphate (SO ₄)	Max 0.005%
Copper (Cu)	Max 0.0001%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0001%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

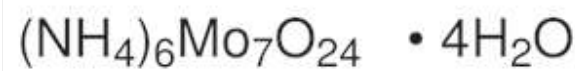
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

AMMONIUM MOLYBDATE TETRAHYDRATE 98% EXTRAPURE

Ammonium heptamolybdate tetrahydrate, Molybdic acid ammonium salt tetrahydrate

Product Code.	00219	Grade	Extrapure
Purity	98%	CAS No.	12054-85-2
Molecular Formula	(NH4)6Mo7O24.4H2O	Molecular Weight	1235.90
H.S.Code	2841.70900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 5.5	Melting point/ Freezing point [°C]	90°C	Boiling point [°C]	190°C
Density [g/cm3]	2.498	Solubility in water [% weight]	43 g / 100 cc cold water		

Packaging



Specification

Appearance	White crystalline powder
Assay	Min 98.0%
Sulphate (SO4)	Max 0.02%

Chloride (Cl)	Max 0.002%
Phosphate, arsenate, silicate (as PO ₄)	Max 0.002%
Lead (Pb)	Max 0.002%
Iron (Fe)	Max 0.005%

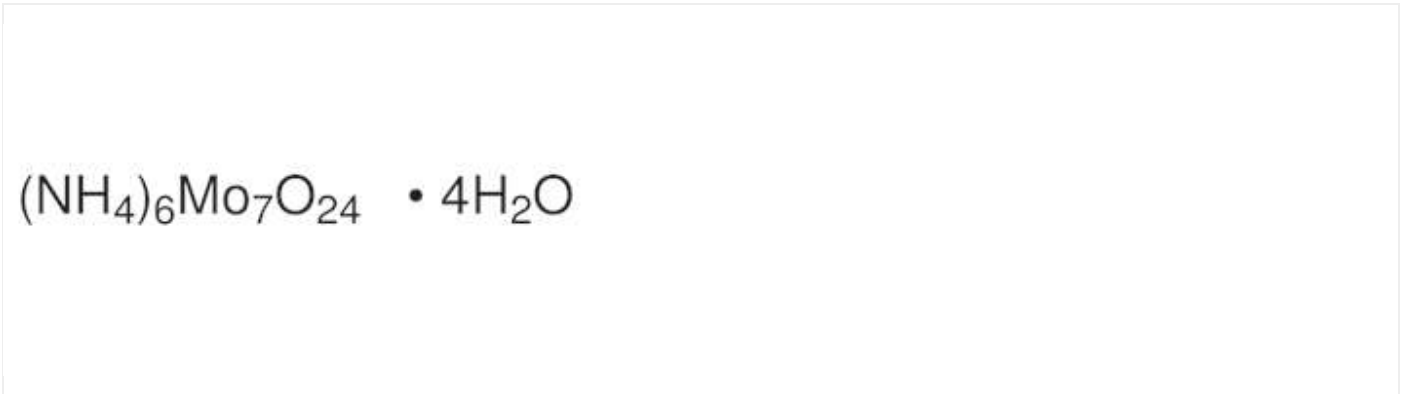
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

AMMONIUM MOLYBDATE TETRAHYDRATE 99.3% AR

Confirms to USP Ammonium heptamolybdate tetrahydrate, Molybdic acid ammonium salt tetrahydrate

Product Code.	00220	Grade	AR
Purity	99.3%	CAS No.	12054-85-2
Molecular Formula	(NH4)6Mo7O24.4H2O	Molecular Weight	1235.90
H.S.Code	2841.70900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 5.5	Melting point/ Freezing point [°C]	90°C	Boiling point [°C]	190°C
Density [g/cm3]	2.498	Solubility in water [% weight]	43 g / 100 cc cold water		

Packaging



Specification

Appearance	White crystalline powder
Assay	99.3-101.8%
Assay (as MoO3)	81 - 83%

Identity	To pass as per USP
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.002%
Arsenate, phosphate, silicate (PO4)	Max 0.001%
Nitrate (NO3)	Passes test (about 0.003%)
Phosphate (PO4)	Max 0.0005%
Heavy metals (by ICP-OES)	Max 0.001%
Magnesium (Mg)	Max 0.005%
Sodium (Na)	Max 0.01%
Potassium (K)	Max 0.01%
Sulphate (SO4)	Max 0.02%
Magnesium & alkali salts	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

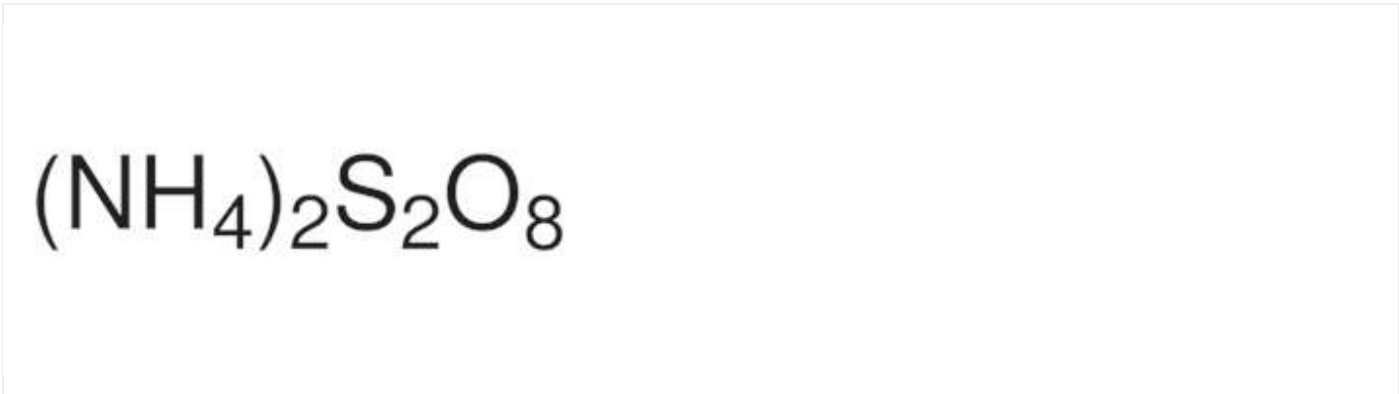
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

AMMONIUM PERSULPHATE 98% AR

Ammonium peroxodisulfate, Ammonium peroxydisulfate

Product Code.	00227	Grade	
Purity	Min. 98%	CAS No.	7727-54-0
Molecular Formula	(NH4)2S2O8	Molecular Weight	228.19
H.S.Code	2833.40000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1 - 2	Melting point/ Freezing point [°C]	120°C	Vapour density	7.88
Density [g/cm3]	1.98	Solubility in water [% weight]	228 g/l at 20 °C	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 3

Packaging



Specification

Appearance	White crystalline powder
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Assay (by KMNO4 titration)	Min 98.0%
Insoluble matter in water	Max 0.005%
Titration free acid	Max 0.04 meq/g
Chloride & chlorates (as Cl)	Max 0.001%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.005%
Manganese (Mn)	Max 0.00005%
Residue on ignition (as SO4)	Max 0.05%

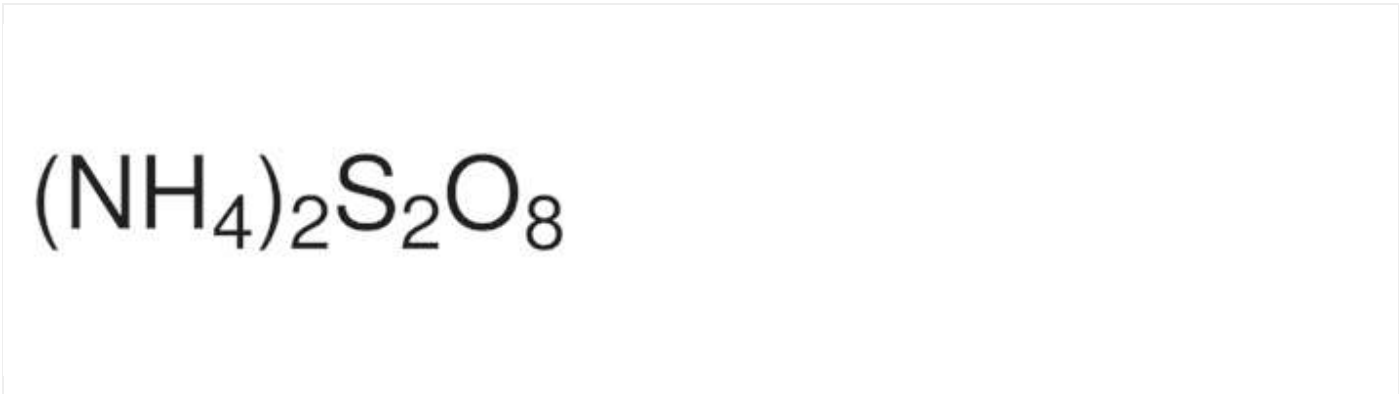
Safety Information and Hazard Symbols


Symbol: GHS03, GHS07, GHS08 Signal Word: Danger UN No.: 1444 IMCO Class No.: 5.1 Packing Group: III Hazardous Statement: H272-H302-H315-H317-H319-H334-H335 Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

AMMONIUM PERSULPHATE 98% EXTRAPURE

Ammonium peroxodisulfate, Ammonium peroxydisulfate,

Product Code.	00226	Grade	Extrapure
Purity	98%	CAS No.	7727-54-0
Molecular Formula	(NH4)2.S2O8	Molecular Weight	228.19
H.S.Code	2833.40000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1 - 2	Melting point/ Freezing point [°C]	120°C	Vapour density	7.88
Density [g/cm3]	1.98	Solubility in water [% weight]	228 g/l at 20 °C	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 3

Packaging



Specification

Appearance	White crystalline powder
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Assay	Min 98.0%
Chloride & chlorates (as Cl)	Max 0.002%
Heavy metal (as Pb)	Max 0.005%
Manganese (Mn)	Max 0.0003%
Iron (Fe)	Max 0.003%

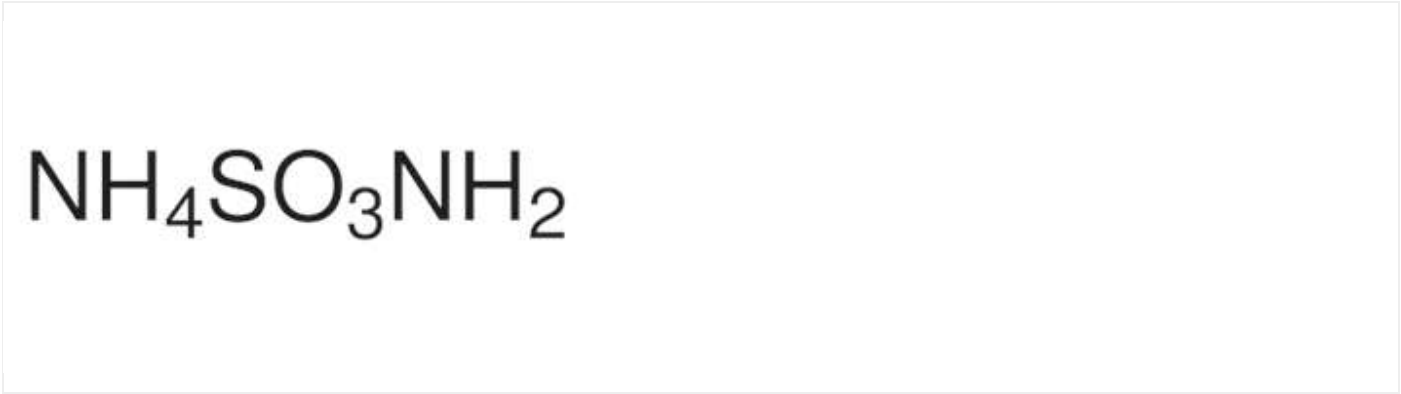
Safety Information and Hazard Symbols


Symbol: GHS03, GHS07, GHS08 Signal Word: Danger UN No.: 1444 IMCO Class No.: 5.1 Packing Group: III Hazardous Statement: H272-H302-H315-H317-H319-H334-H335 Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

AMMONIUM SULPHAMATE 98.5% AR

For determination of sulphonamide in blood Ammonium Amidosulfonate; Ammonium Amidosulphate; Ammate.

Product Code.	00241	Grade	AR
Purity	98.5%	CAS No.	7773-06-0
Molecular Formula	H2NSO3NH4	Molecular Weight	114.12
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight amine odor
pH value	4.5 - 6.0	Melting point/ Freezing point [°C]	131°C	Boiling point [°C]	160°C
Density [g/cm3]	1.769	Solubility in water [% weight]	2000 g/l at 20 °C		

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 98.5%
Melting point	131-135°C

Residue on ignition	Max 0.1%
Insoluble matter	Max 0.02%
Heavy metal (as Pb)	Max 0.0005%

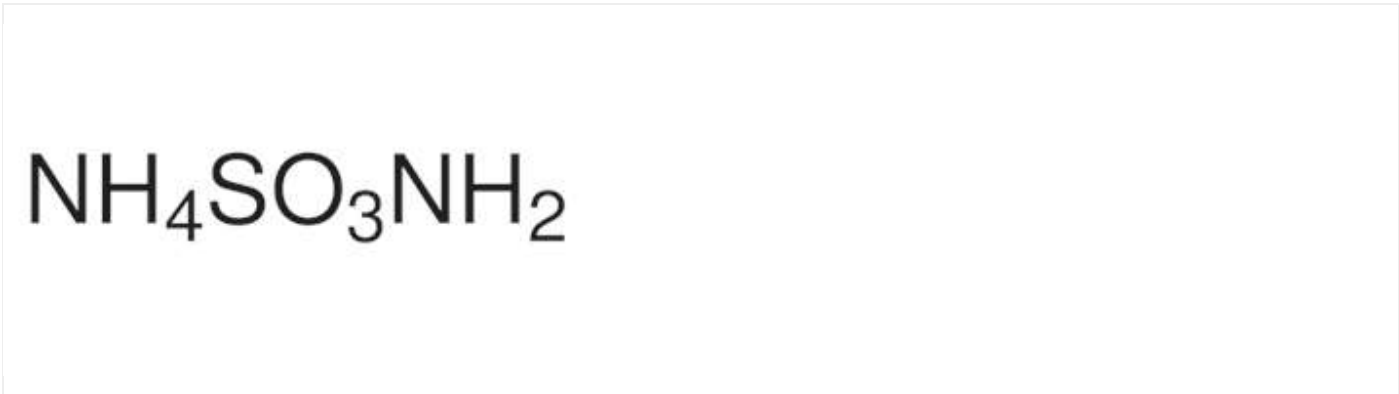
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302 Precaution Statement: P301 + P312 + P330

AMMONIUM SULPHAMATE 98.5% EXTRAPURE

Ammonium Amidosulfonate; Ammonium Amidosulphate; Ammate.

Product Code.	00240	Grade	
Purity	Min. 98%	CAS No.	7773-06-0
Molecular Formula	H2NSO3NH4	Molecular Weight	114.12
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight amine odor
pH value	4.5 - 6.0	Melting point/ Freezing point [°C]	131°C	Boiling point [°C]	160°C
Density [g/cm3]	1.769	Solubility in water [% weight]	114.1 g/l at 20 °C		

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 98%
Melting point	131-134 deg C
Sulphated ash	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 3077

IMCO Class No.: 9

Packing Group: III

Hazardous Statement: H302-H400

Precaution Statement: P273

AMMONIUM THIOCYANATE 98.5% AR

Ammonium rhodanide

Product Code.	00251	Grade	AR
Purity	98.5%	CAS No.	1762-95-4
Molecular Formula	NH4SCN	Molecular Weight	76.12
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4 - 5.5	Melting point/ Freezing point [°C]	152 - 154 °C	Density [g/cm3]	1.15
Solubility in water [% weight]	76.1 g/l at 20 °C				

Packaging



Specification

Appearance	White crystalline powder
Assay (argentometric)	Min 98.5%
Insoluble matter	Max 0.005%
pH (5% solution in water; 25°C)	4.5-6.0

Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0003%
Residue on ignition (as SO4)	Max 0.025%
Iodine consuming substances	Max 0.004 meq/g

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H312-H332-H412 Precaution Statement: P273-P280

AMMONIUM THIOCYANATE 98% EXTRAPURE

Ammonium rhodanide

Product Code.	00250	Grade	Extrapure
Purity	98%	CAS No.	1762-95-4
Molecular Formula	NH4SCN	Molecular Weight	76.12
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4 - 5.5	Melting point/ Freezing point [°C]	152 - 154 °C	Density [g/cm3]	1.15
Solubility in water [% weight]	76.1 g/l at 20 °C				

Packaging



Specification

Appearance	White crystalline powder
Assay (argentometric)	Min 98.0%
Iron (Fe)	Max 0.0005%
Sulphide (S)	Max 0.002%

Residue on ignition (as SO4)	Max 0.05%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.02%
Heavy metal (as Pb)	Max 0.002%

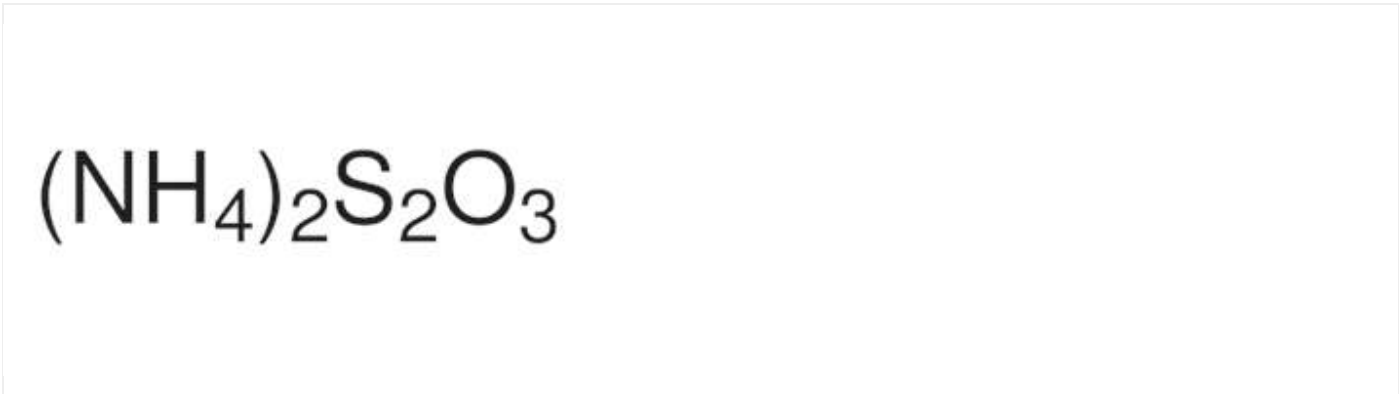
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H312-H332-H412 Precaution Statement: P273-P280

AMMONIUM THIOSULPHATE (CRYSTALS) 95% EXTRAPURE

Ammonium Hyposulphite

Product Code.	00254	Grade	
Purity	Min 95%	CAS No.	7783-18-8
Molecular Formula	(NH4)2S2O3	Molecular Weight	148.20
H.S.Code	2832.30900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Ammonical odour
Density [g/cm3]	1.67	Solubility in water [% weight]	103.3 g/100 ml water @ 100 0C		

Packaging

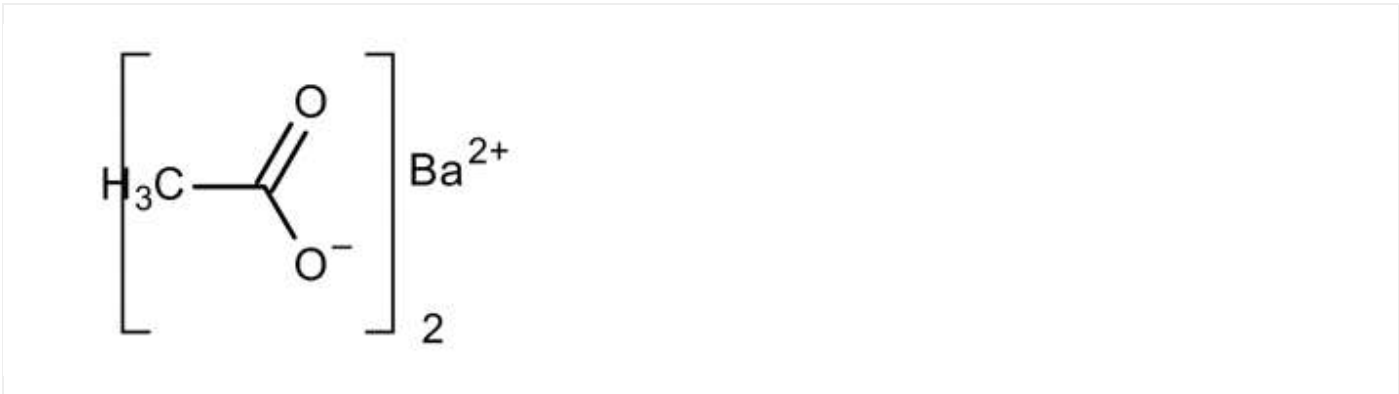


Specification

Appearance	White deliquescent crystals
Assay (iodometric)	95 - 99%
pH	5 - 7

BARIUM ACETATE 99% AR

Product Code.	00332	Grade	AR
Purity	99%	CAS No.	543-80-6
Molecular Formula	C4H6BaO4	Molecular Weight	255.42
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight acetic acid odor
pH value	7 - 8.5 at 50 g/l at 25 °C	Density [g/cm3]	2.47	Solubility in water [% weight]	1 g/1.5 ml water

Packaging



Specification

Appearance	White crystalline powder
Assay (complexometric)	99.0-102.0%
Insoluble matter	Max 0.01%
pH (5% solution)	7.0 - 8.5

Chloride (Cl)	Max 0.001%
Substance oxidizables (as NO3)	Max 0.005%
Heavy metal (as Pb)	Max 0.0005%
Calcium (Ca)	Max 0.05%
Iron (Fe)	Max 0.0005%
Strontium (Sr)	Max 0.2%
Potassium (K)	Max 0.003%
Sodium (Na)	Max 0.005%
Substance not precipitated by sulphuric acid (as SO4)	Max 0.1%

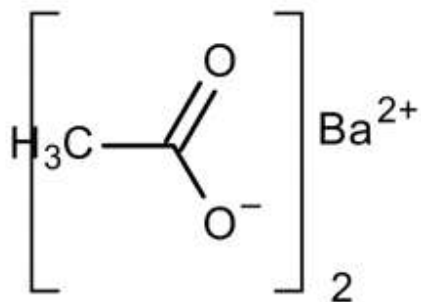
Safety Information and Hazard Symbols



Symbol: GHS07
 Signal Word: Warning
 Hazardous Statement: H302-H332
 Risk Statement: 20/22
 Safety Statement: 28

BARIUM ACETATE 99% EXTRAPURE

Product Code.	00331	Grade	
Purity	99%	CAS No.	543-80-6
Molecular Formula	C4H6BaO4	Molecular Weight	255.42
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight acetic acid odor
pH value	7 - 8.5 at 50 g/l at 25 °C	Density [g/cm3]	2.47	Solubility in water [% weight]	1 g/1.5 ml water

Packaging



Specification

Appearance	White crystalline powder
Assay (as Ba(CH3COO)2 (by chelatometry)	Min 99.0%
Substance insoluble in water	Max 0.01%
pH (5% solution in water; 20°C)	6.5 - 8.5

Chloride (Cl)	Max 0.004%
Total nitrogen (N)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Calcium (Ca)	Max 0.05%
Strontium (Sr)	Max 0.3%
Substance not precipitated by dilute H ₂ SO ₄ (as SO ₄)	Max 0.3%
Substance reducing KMnO ₄ (as HCOCH)	Max 0.025%

Safety Information and Hazard Symbols



Symbol: GHS07
 Signal Word: Warning
 Hazardous Statement: H302-H332
 Risk Statement: 20/22
 Safety Statement: 28

BARIUM STEARATE EXTRAPURE

Insoluble in water or alcohol Stearic Acid Barium salt

Product Code.	00349	Grade	Extra Pure
Purity		CAS No.	6865-35-6
Molecular Formula	Ba(C18H35O2)2	Molecular Weight	704.28
H.S.Code	2915.70900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White to off white	Melting point/ Freezing point [°C]	120 °C
Density [g/cm3]	1.145	Solubility in water [% weight]	Insoluble in water		

Packaging



Specification

Appearance	White to off-white powder
Barium (Ba)	Min 19%
Free fatty acids	Max 1.5%
Volatile matter (105°C; 2hr)	Max 2%

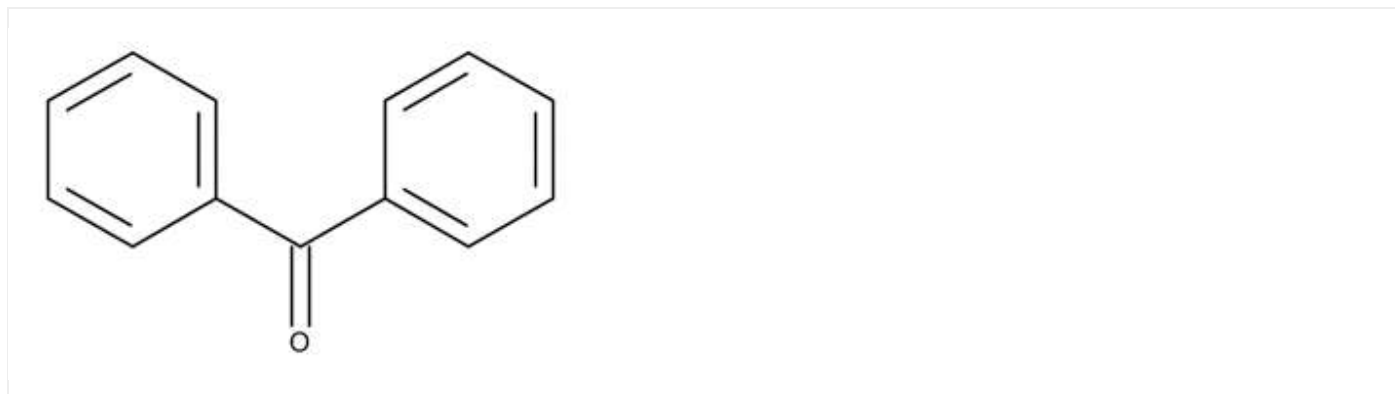
Safety Information and Hazard Symbols

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BENZOPHENONE 99% EXTRAPURE

Diphenyl ketone

Product Code.	00384	Grade	Extrapure
Purity	99%	CAS No.	119-61-9
Molecular Formula	C ₁₃ H ₁₀ O	Molecular Weight	182.22
H.S.Code	2914.39300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Persistent rose-like odor
Melting point/ Freezing point [°C]	47 - 51 °C	Boiling point [°C]	305 °C	Vapour pressure mm/Hg	1 mm Hg @ 108.20C
Density [g/cm ³]	1.11	Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	3.18

Packaging



Specification

Appearance	White crystals/crystalline powder/Flakes
Assay	Min 99.0%
Acidity	Max 1 ml N%

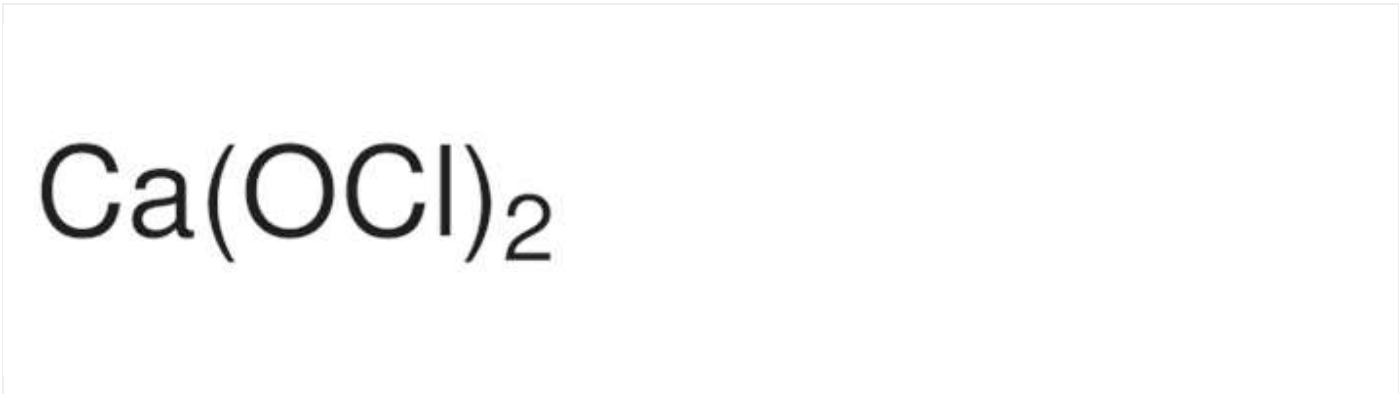
Sulphated ash	Max 0.05%
Melting point	47 - 49°C
Chloride (Cl)	Max 0.02%

Safety Information and Hazard Symbols


Symbol: GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H410 Precaution Statement: P273-P501

BLEACHING POWDER 30% EXTRA PURE
Calcium hypochlorite ; Chlorinated Lime

Product Code.	00443	Grade	
Purity		CAS No.	7778-54-3
Molecular Formula	CaCl2O2	Molecular Weight	142.99
H.S.Code	2828.90110	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Chlorine-like odor
Melting point/ Freezing point [°C]	100 °C	Density [g/cm3]	2.35	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White to slightly yellowish white powder
Available Cl	Min 30%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05, GHS07, GHS09

Signal Word: Danger

UN No.: 1748

IMCO Class No.: 5.1

Packing Group: II

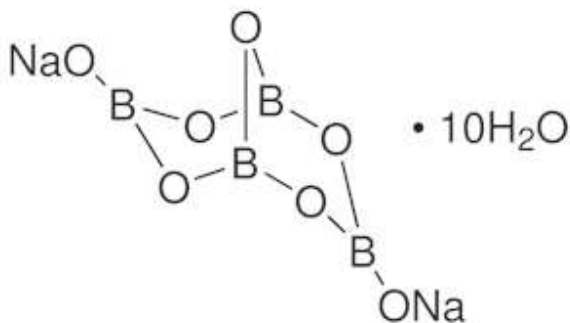
Hazardous Statement: H272-H302-H314-H400

Precaution Statement: P220-P273-P280-P305 + P351 + P338-P310

BORAX (DECAHYDRATE) 99.5% AR

Buffer substance. Sodium tetraborate decahydrate; Borax decahydrate; Sodium borate decahydrate ;Di-Sodium Tetraborate(decahydrate)

Product Code.	00448	Grade	AR
Purity	99.5%	CAS No.	1303-96-4
Molecular Formula	Na ₂ B ₄ O ₇ ·10H ₂ O	Molecular Weight	381.37
H.S.Code	2840.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9.2	Melting point/ Freezing point [°C]	62 °C	Boiling point [°C]	320°C
Density [g/cm ³]	1.73	Solubility in water [% weight]	39 g/l at 20 °C - completely soluble		

Packaging



Specification

Appearance	A white crystalline powder
Assay (acidimetric)	99.5 - 103%
Identity	Passes test

Clarity of solution	Passes test
Insoluble matter	Max 0.005%
pH (0.01 M solution; 25°C)	9.15 - 9.20
pH (4% solution in water)	9.0 - 9.6
Chloride (Cl)	Max 0.0007%
Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0005%
Calcium (Ca)	Max 0.005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Ammonium (NH4)	Max 0.001%
Lead (Pb)	Max 0.0005%

Safety Information and Hazard Symbols

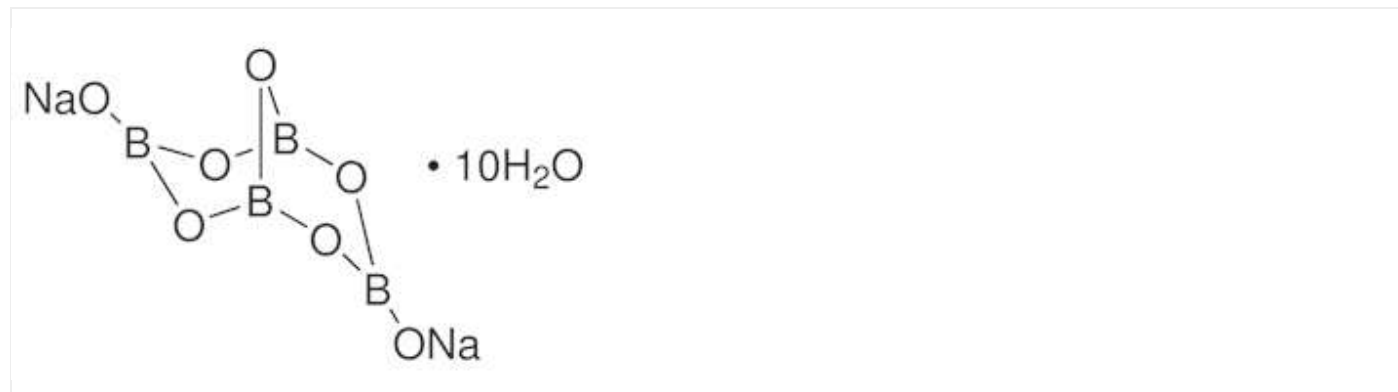


Symbol: GHS08
 Signal Word: Danger
 Hazardous Statement: H360FD
 Precaution Statement: P201-P308 + P313

BORAX (DECAHYDRATE) 99% EXTRAPURE

Sodium tetraborate decahydrate; Borax decahydrate; Sodium borate decahydrate

Product Code.	00447	Grade	Extrapure
Purity	99%	CAS No.	1303-96-4
Molecular Formula	Na ₂ B ₄ O ₇ ·10H ₂ O	Molecular Weight	381.37
H.S.Code	2840.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9.2	Melting point/ Freezing point [°C]	62 °C	Boiling point [°C]	320°C
Density [g/cm ³]	1.73	Solubility in water [% weight]	39 g/l at 20 °C - completely soluble		

Packaging



Specification

Appearance	A white crystalline powder
Assay (acidimetric)	99.0 - 103.0%
pH (5% solution in water)	9.2 - 9.5

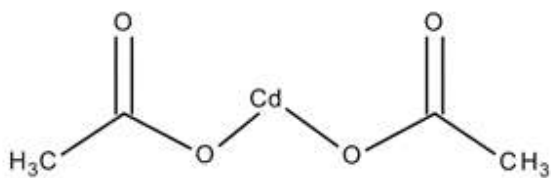
Carbonate, bicarbonate	Passes test
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.002%
Ammonium (NH4)	Max 0.001%
Arsenic (As)	Max 0.0005%
Calcium (Ca)	Max 0.01%

Safety Information and Hazard Symbols


Symbol: GHS08 Signal Word: Danger Hazardous Statement: H360FD Precaution Statement: P201-P308 + P313

CADMIUM ACETATE DIHYDRATE 98% EXTRAPURE

Product Code.	00598	Grade	
Purity	98%	CAS No.	5743-04-4
Molecular Formula	(CH ₃ COO) ₂ Cd.2H ₂ O	Molecular Weight	266.52
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight acetic acid odor
pH value	7.1	Melting point/ Freezing point [°C]	130°C	Density [g/cm ³]	2.01
Solubility in water [% weight]	Freely soluble				

Packaging



Specification

Appearance	White crystalline powder.
Assay (complexometric)	Min 98.0%
Chloride (Cl)	Max 0.005%

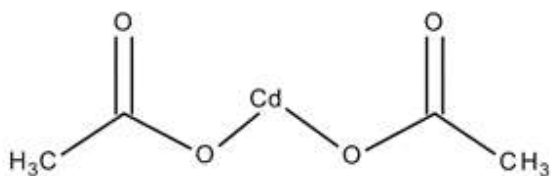
Sulphate (SO4)	Max 0.01%
Iron (Fe)	Max 0.002%
Potassium (K)	Max 0.01%
Sodium (Na)	Max 0.01%
Zinc (Zn)	Max 0.02%

Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H312-H332-H410 Precaution Statement: P273-P280-P501

CADMIUM ACETATE DIHYDRATE 99% AR

Product Code.	00599	Grade	AR
Purity	99%	CAS No.	5743-04-4
Molecular Formula	(CH ₃ COO) ₂ Cd.2H ₂ O	Molecular Weight	266.52
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight acetic acid odor
pH value	7.1	Melting point/ Freezing point [°C]	130°C	Density [g/cm ³]	2.01
Solubility in water [% weight]	Freely soluble				

Packaging



Specification

Appearance	White crystalline powder /Colorless crystals
Assay (complexometric)	Min 99.0%
Insoluble matter in water	Max 0.005%

Chloride (Cl)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Calcium (Ca)	Max 0.005%
Sodium (Na)	Max 0.002%
Lead (Pb)	Max 0.001%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Zinc (Zn)	Max 0.002%

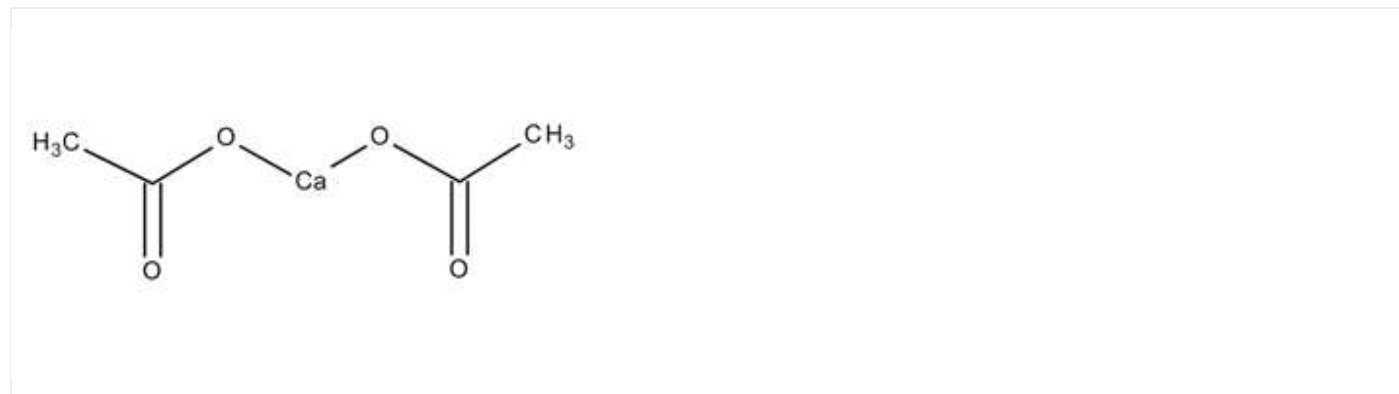
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H312-H332-H410 Precaution Statement: P273-P280-P501

CALCIUM ACETATE 97% EXTRAPURE

Acetic acid calcium salt ; Dried for soil test

Product Code.	00620	Grade	
Purity	97%	CAS No.	114460-21-8
Molecular Formula	(CH ₃ .COO) ₂ Ca.xH ₂ O	Molecular Weight	158.17
H.S.Code	2915.29100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight acetic acid odor
pH value	7.6	Melting point/ Freezing point [°C]	160 °C	Density [g/cm ³]	1.5
Solubility in water [% weight]	Slightly soluble in water				

Packaging



Specification

Appearance	White to off –white colored powder
Assay (ex Ca)	Min 97%
Loss on dryig (at 200°C)	Max 7.0%

Chloride (Cl)	Max 0.05%
Sulphate (SO4)	Max 0.2%
Iron (Fe)	Max 0.002%
Lead (Pb)	Max 0.001%

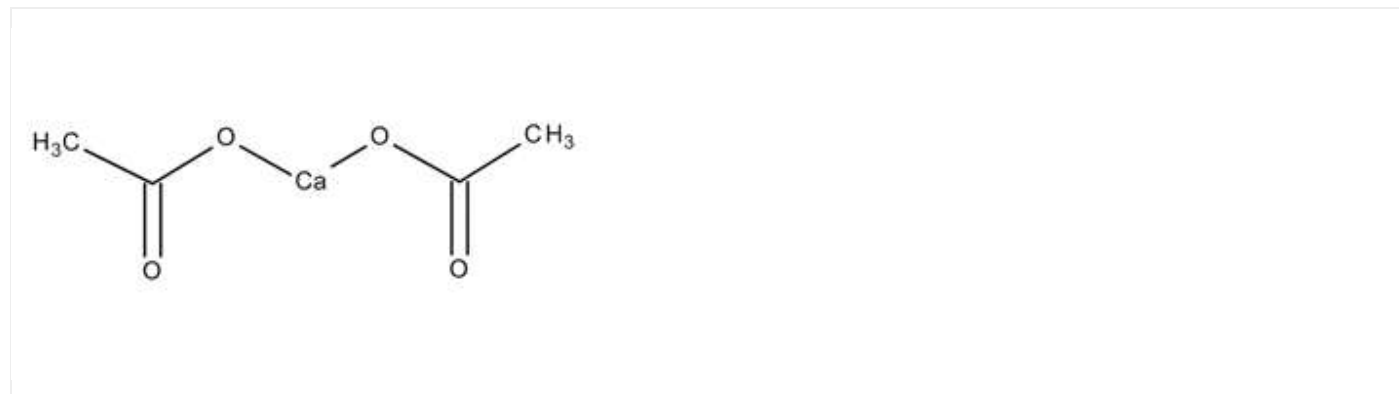
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

CALCIUM ACETATE 99% AR

Acetic acid calcium salt

Product Code.	00621	Grade	
Purity	99%	CAS No.	114460-21-8
Molecular Formula	(CH ₃ .COO) ₂ Ca.xH ₂ O	Molecular Weight	158.17
H.S.Code	2915.29100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight acetic acid odor
pH value	7.6	Melting point/ Freezing point [°C]	160 °C	Density [g/cm ³]	1.5

Packaging



Specification

Appearance	White crystalline powder
Assay (complexometric; on anhydrous basis)	99 - 100.5%
Appearance of solution	Passes test
pH (5% solution in water)	7.0 - 9.0
Barium (Ba)	Max 0.005%

Chloride (Cl)	Max 0.05%
Fluoride (F)	Max 0.005%
Sulphate (SO ₄)	Max 0.1%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0003%
Iron (Fe)	Max 0.002%
Lead (Pb)	Max 0.0002%
Water (H ₂ O)	Max 7.0%
Matter insoluble in water	Max 0.3%
Formic acid, formates and other oxidizable impurities	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

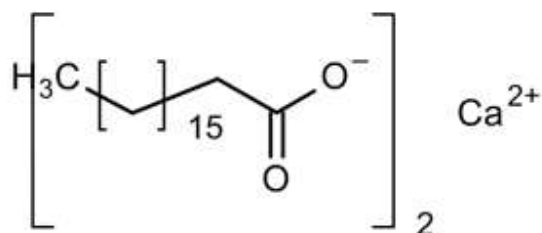
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

CALCIUM STEARATE EXTRAPURE

Confirms to IP Stearic acid calcium salt

Product Code.	00663	Grade	Extrapure
Purity		CAS No.	1592-23-0
Molecular Formula	C36H70CaO4	Molecular Weight	607.04
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white powder	Odour	Fatty acid odor
Melting point/ Freezing point [°C]	155°C	Auto-ignition temperature [°C]	400°C	Density [g/cm3]	1.03
Solubility in water [% weight]	Insoluble in water				

Packaging



Specification

Appearance	A white or almost white, powder
Assay (as CaO)	9.0-10.5%
Identification	To comply IP test
Composition of fatty acids	

Stearic Acid	Min 40.0%
Sum of stearic acid and plamitic acid	Min 90.0%
Loss on drying (at 105°C)	Max 4.0%
Heavy metal (as Pb)	Max 0.001%

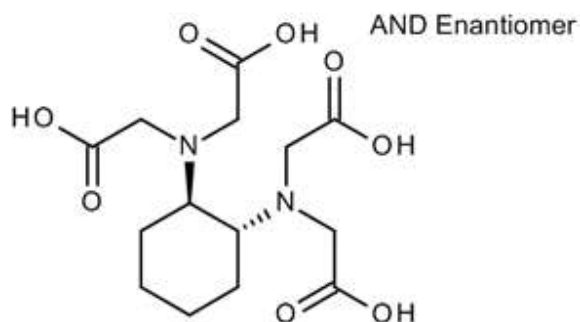
Safety Information and Hazard Symbols

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CDTA (MONOHYDRATE) 97%

Trans-1, 2-Diaminocyclohexane N,N,N,N-Tetra Acetic Acid

Product Code.	00703	Grade	
Purity	97%	CAS No.	125572-95-4
Molecular Formula	C ₁₄ H ₂₂ N ₂ O ₈ ·H ₂ O	Molecular Weight	364.35
H.S.Code	2922.49900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	213 - 216 °C	Solubility in water [% weight]	Slightly soluble in water		

Specification

Appearance	White crystalline powder
Assay	Min 97%
Residue on ignition	Max 0.3%

Safety Information and Hazard Symbols

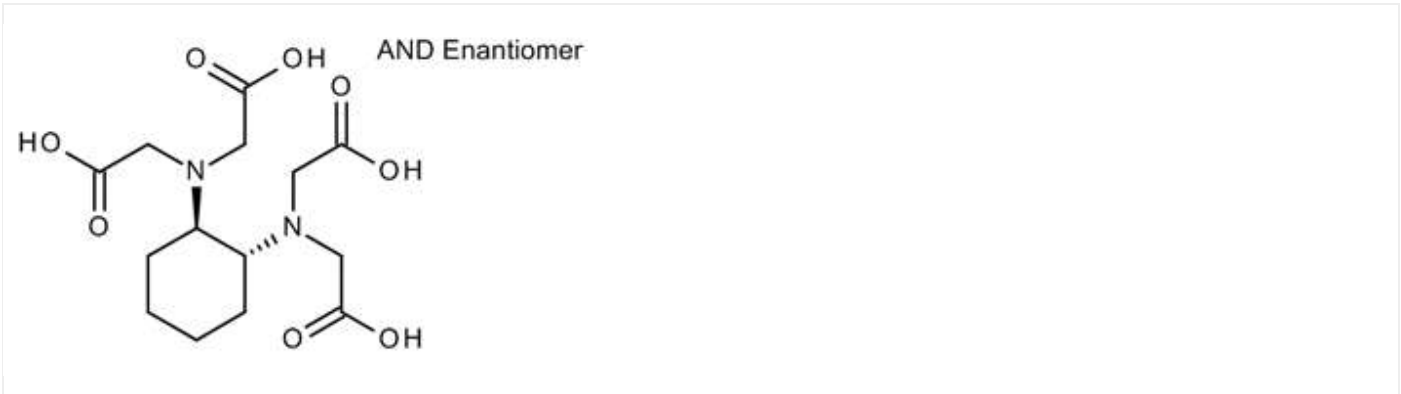


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315-H319-H335
Precaution Statement: P261-P305 + P351 + P338

CDTA (MONOHYDRATE) 99% AR

Trans-1, 2-Diaminocyclohexane N,N,N,N-Tetra Acetic Acid

Product Code.	00704	Grade	
Purity	99%	CAS No.	125572-95-4
Molecular Formula	C14H22N2O8•H2O	Molecular Weight	364.35
H.S.Code	2922.49900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	213 - 216 °C	Solubility in water [% weight]	Slightly soluble in water		

Packaging

Specification

Appearance	White crystalline powder
Assay	Min 99%
Insoluble matter in NaOH	Passes test
Sulphate (SO4)	Max 0.01%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Water (H2O)	4.8 - 5.6%

Sulphated ash

Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

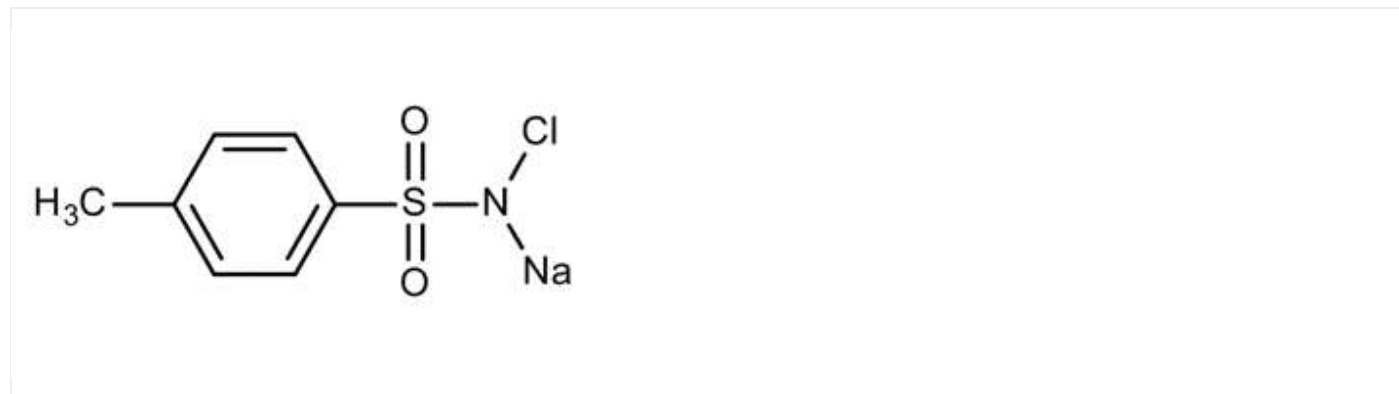
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

CHLORAMINE T TRIHYDRATE 98% FOR SYNTHESIS

N-Chloro-p-toluene sulfonamide sodium salt

Product Code.	00739	Grade	
Purity	Min 98	CAS No.	7080-50-4
Molecular Formula	C7H7ClNNaO2S.3H2O	Molecular Weight	281.69
H.S.Code	2935.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Chlorine like
pH value	8 - 10	Melting point/ Freezing point [°C]	167 - 170 °C	Flash point [°C]	192 °C
Density [g/cm3]	1.43	Solubility in water [% weight]	Soluble in water		

Packaging

Specification

Appearance	A white crystalline powder
Assay	98 %
Appearance of solution	Passes test
pH (5% solution in water)	8.0 - 11.0
Matter insoluble in ethanol	Max 2.0%
Ortho compounds	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 3263

IMCO Class No.: 8

Packing Group: III

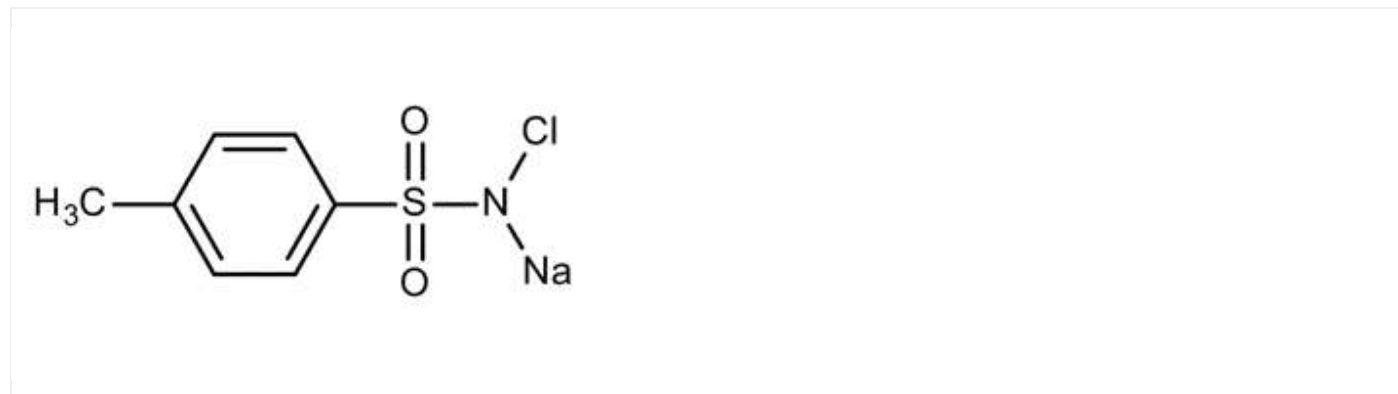
Hazardous Statement: H302-H314-H334

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

CHLORAMINE T TRIHYDRATE 99% AR

For determination of bromates and halogens. N-Chloro-p-toluenesulfonamide sodium salt

Product Code.	00740	Grade	AR
Purity	99%	CAS No.	7080-50-4
Molecular Formula	C7H7ClNNaO2S.3H2O	Molecular Weight	281.69
H.S.Code	2935.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Chlorine like
pH value	8 - 10	Melting point/ Freezing point [°C]	167 - 170 °C	Flash point [°C]	192 °C
Density [g/cm3]	1.43	Solubility in water [% weight]	Soluble in water		

Packaging

Specification

Appearance	A white crystalline powder
Assay (iodometric)	99-103.0%
Appearance of solution (5% in water)	Passes test
pH (5% solution in water; 25°C)	8.0 - 11.0
Insoluble matter (5% in ethanol)	Max 1.5%
Ortho compounds	Passes test

Suitability (for bromide determination)

Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 3263

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H302-H314-H334

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

CHROMIUM (III) POTASSIUM SULPHATE DODECAHYDRATE 98.5%
EXTRAPURE
Chrome alum; Potassium chromium(III) sulfate dodecahydrate ;(Chromium (III) Potassium Sulphate

Product Code.	00804	Grade	
Purity	98.5%	CAS No.	7788-99-0
Molecular Formula	KCr(SO4)2.12H2O	Molecular Weight	499.39
H.S.Code	2833.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Violet crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	89 °C	Density [g/cm3]	1.826	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	Violet crystalline powder
Assay (iodometric)	Min 98.5%
Chloride (Cl)	Max 0.03%
Ammonium (NH4)	Max 0.01%
Lead (Pb)	Max 0.01%
Iron (Fe)	Max 0.03%
Copper (Cu)	Max 0.005%

Safety Information and Hazard Symbols

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CHROMIUM (III) POTASSIUM SULPHATE DODECAHYDRATE 99% AR

Chrome alum; Potassium chromium(III) sulfate dodecahydrate Chromium (III) Potassium Sulphate

Product Code.	00805	Grade	
Purity	99%	CAS No.	7788-99-0
Molecular Formula	KCr(SO4)2.12H2O	Molecular Weight	499.39
H.S.Code	2833.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Violet crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	89 °C	Density [g/cm3]	1.826	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	Violet crystalline powder
Assay (iodometric)	99 - 102%
Substance insoluble in water	Max 0.01%
Chloride (Cl)	Max 0.002%
Lead (Pb)	Max 0.005%
Copper (Cu)	Max 0.001%
Nickel (Ni)	Max 0.001%
Iron (Fe)	Max 0.01%
Aluminium (Al)	Max 0.005%
Ammonium (NH4)	Max 0.01%
Heavy metal (as Pb)	Max 0.01%

Safety Information and Hazard Symbols

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CHROMIUM (III) SULPHATE BASIC EXTRA PURE

Chromosal B ; Chromium (III) Sulphate

Product Code.	00806	Grade	
Purity		CAS No.	39380-78-4
Molecular Formula	Cr4(SO4)5(OH)2	Molecular Weight	722.30
H.S.Code	2833.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Green Crystalline	Odour	Odorless
pH value	1.5 - 2.5	Melting point/ Freezing point [°C]	90°C	Density [g/cm3]	1.7
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	Green crystalline powder
Total Cr2O3	24 - 25%
Basicity	33 - 36%

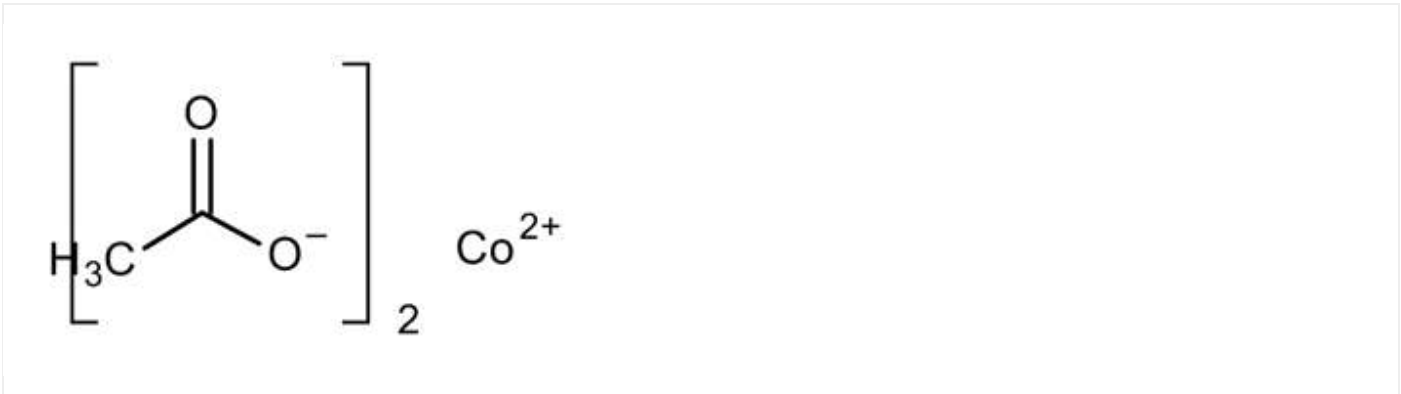
Safety Information and Hazard Symbols


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

COBALT (II) ACETATE TETRAHYDRATE 98.5% EXTRAPURE

Cobaltous acetate tetrahydrate

Product Code.	00830	Grade	
Purity	98.5%	CAS No.	6147-53-1
Molecular Formula	(CH3COO)2CO.4H2O	Molecular Weight	249.08
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Reddish pink	Odour	Acetic acid odour
pH value	6.8	Melting point/ Freezing point [°C]	298 °C	Density [g/cm3]	1.71
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	Reddish pink crystalline powder
Assay (complexometric)	Min 98.5%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%
Lead (Pb)	Max 0.001%
Nickel (Ni)	Max 0.1%

Iron (Fe)

Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS08, GHS09

Signal Word: Danger

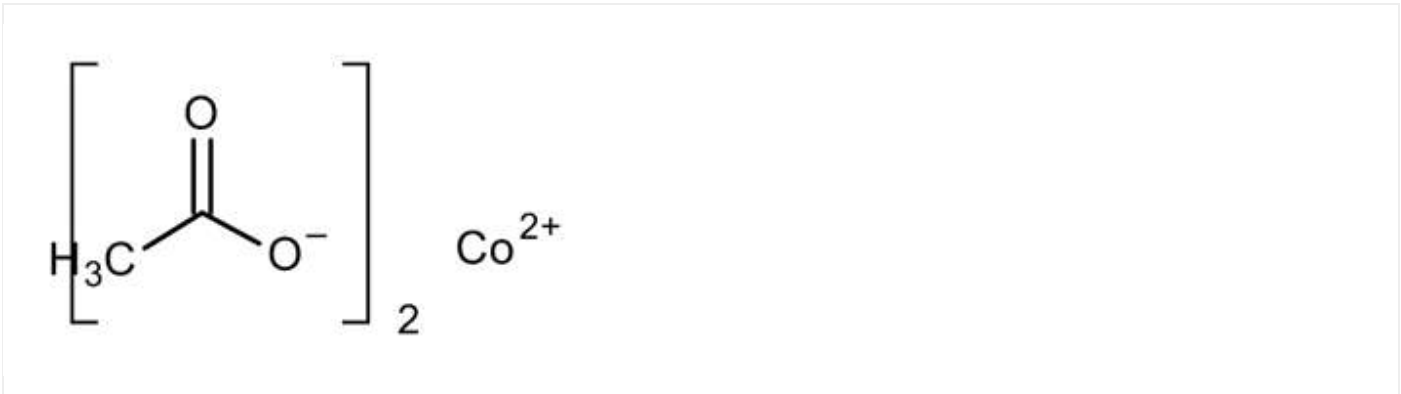
Hazardous Statement: H317-H334-H341-H350i-H360F-H410

Precaution Statement: P201-P261-P273-P280-P308 + P313-P501

COBALT (II) ACETATE TETRAHYDRATE 99% AR

Cobaltous acetate tetrahydrate

Product Code.	00831	Grade	AR
Purity	99 - 102%	CAS No.	6147-53-1
Molecular Formula	(CH3COO)2CO.4H2O	Molecular Weight	249.08
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Reddish pink	Odour	Acetic acid odour
pH value	6.8	Melting point/ Freezing point [°C]	298 °C	Density [g/cm3]	1.71
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	Reddish pink crystalline powder
Assay (complexometric)	99 - 102%
pH (5% solution in water)	6.0 - 8.0
Insoluble matter	Max 0.01%
Substances not precipitated by H2S (as SO4)	Max 0.3%
Chloride (Cl)	Max 0.002%

Sulphate (SO4)	Max 0.005%
Nitrate (NO3)	Max 0.01%
Lead (Pb)	Max 0.001%
Copper (Cu)	Max 0.002%
Nickel (Ni)	Max 0.01%
Zinc (Zn)	Max 0.01%
Iron (Fe)	Max 0.001%
Magnesium (Mg)	Max 0.005%
Calcium (Ca)	Max 0.005%
Sodium (Na)	Max 0.05%
Potassium (K)	Max 0.01%
Manganese (Mn)	Max 0.01%

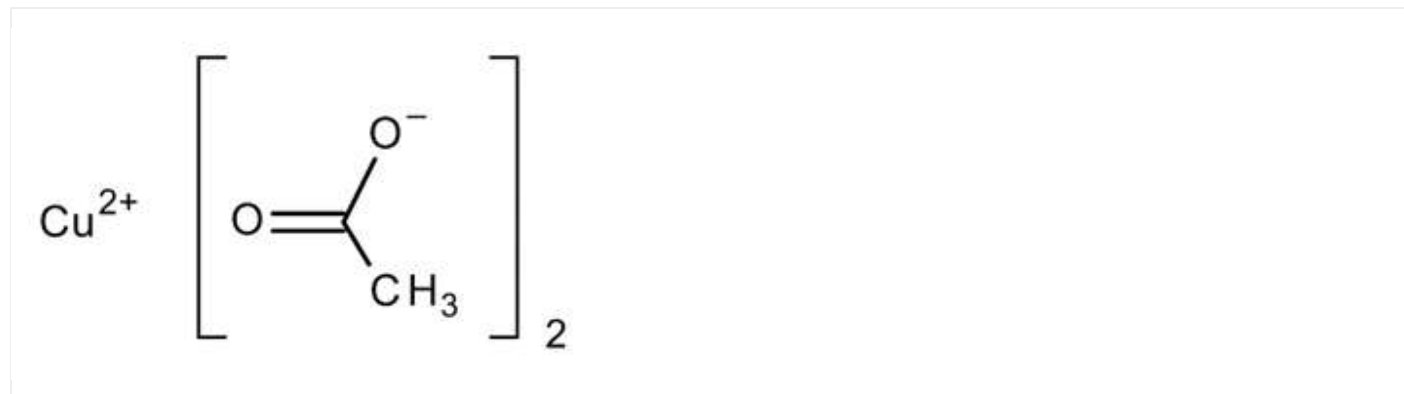
Safety Information and Hazard Symbols

 
Symbol: GHS08, GHS09 Signal Word: Danger Hazardous Statement: H317-H334-H341-H350i-H360F-H410 Precaution Statement: P201-P261-P273-P280-P308 + P313-P501

COPPER (II) ACETATE MONOHYDRATE 98% EXTRAPURE

Copper (II) acetate monohydrate; Cupric Acetate

Product Code.	00853	Grade	Extrapure
Purity	98%	CAS No.	6046-93-1
Molecular Formula	(CH ₃ .COO) ₂ Cu.H ₂ O	Molecular Weight	199.65
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Green crystalline	Odour	Slight acetic acid odor
pH value	5.2 - 5.5	Melting point/ Freezing point [°C]	115 °C	Boiling point [°C]	240°C
Density [g/cm3]	1.88	Solubility in water [% weight]	Soluble in water		

Packaging

Specification

Appearance	Blue-green to dark green crystalline powder
Assay (iodometric)	Min 98.0%
Insoluble matter in water	Max 0.1%
Chloride (Cl)	Max 0.01%
Sulphate (SO ₄)	Max 0.2%
Iron (Fe)	Max 0.01%

Zinc (Zn)

Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 3077

IMCO Class No.: 9

Packing Group: III

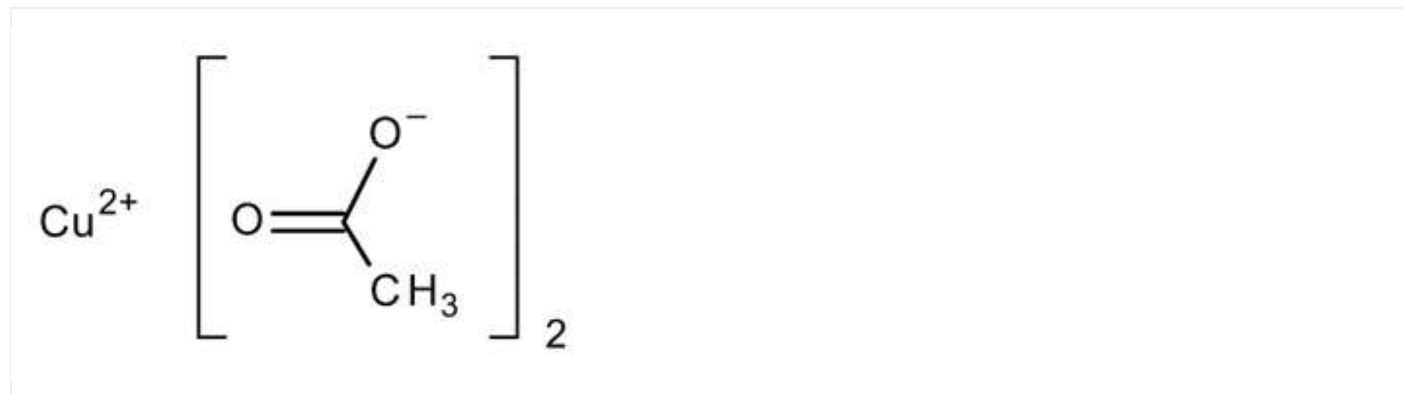
Hazardous Statement: H302-H315-H319-H335-H400

Precaution Statement: P261-P273-P305 + P351 + P338

COPPER (II) ACETATE MONOHYDRATE 99% AR

Copper (II) acetate monohydrate ; Cupric Acetate

Product Code.	00854	Grade	
Purity	99%	CAS No.	6046-93-1
Molecular Formula	(CH ₃ .COO) ₂ Cu.H ₂ O	Molecular Weight	199.65
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Green crystalline	Odour	Slight acetic acid odor
pH value	5.2 - 5.5	Melting point/ Freezing point [°C]	115 °C	Boiling point [°C]	240°C
Density [g/cm3]	1.88	Solubility in water [% weight]	Soluble in water		

Packaging

Specification

Appearance	Green crystalline powder with metallic luster
Assay (iodometric)	99.0-102.0%
Insoluble matter	Max 0.01%
Sulphate (SO ₄)	Max 0.01%
Chloride (Cl)	Max 0.003%
Nickel (Ni)	Max 0.01%

Iron (Fe)	Max 0.002%
Zinc (Zn)	Max 0.01%
Calcium (Ca)	Max 0.005%
Sodium (Na)	Max 0.05%
Potassium (K)	Max 0.01%
pH (2% solution in water)	5.2 - 5.5

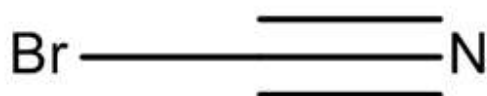
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H315-H319-H335-H400 Precaution Statement: P261-P273-P305 + P351 + P338

CYANOGEN BROMIDE 99% FOR SYNTHESIS

Store at 0 deg C to +6 deg C. The stability is limited. Activating reagent for insolubles supports for affinity adsorption. Store in Refrigerator. Bromine cyanide

Product Code.	00906	Grade	For Synthesis
Purity	99%	CAS No.	506-68-3
Molecular Formula	BrCN	Molecular Weight	105.93
H.S.Code	2853.90100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless to white	Odour	Penetrating odor
Melting point/ Freezing point [°C]	50 - 53 °C	Boiling point [°C]	61 - 62 °C	Initial boiling point [°C]	61 °C
Final boiling point [°C]	62 °C	Vapour pressure [20°C]	133 hPa at 20°C	Vapour density	3.62
Density [g/cm3]	2.015	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	White crystals
Assay	Min 99.0%
Melting point	49 - 51 °C

Safety Information and Hazard Symbols

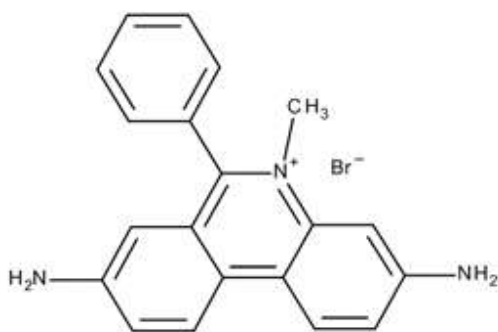


Symbol: GHS05, GHS06, GHS09
Signal Word: Danger
UN No.: 1889
IMCO Class No.: 6.1,8
Packing Group: I
Hazardous Statement: H300-H310-H314-H330-H410
Precaution Statement: P260-P264-P273-P280-P284-P302 + P350

DIMIDIUM BROMIDE 97.5% FOR SYNTHESIS

3,8-Diamino-5-methyl-6-phenylphenanthridinium bromide, Trypadine

Product Code.	01054	Grade	For Synthesis
Purity	97.5%	CAS No.	518-67-2
Molecular Formula	C20H18BrN3	Molecular Weight	380.30
H.S.Code	2933.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Dark red crystals	Melting point/ Freezing point [°C]	230 °C
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Specification

Appearance	Dark red crystals, crystalline powder
Assay (argentometric)	Min 97.5%
Identity (IR)	Passes test
Absorption maxima in methanol	523 - 528 nm
Absorptivity(A 1% /1cm, ?max in Methanol)	Min 155
Loss on drying (at 110°C)	Max 5%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Danger

Hazardous Statement: H315-H319-H335

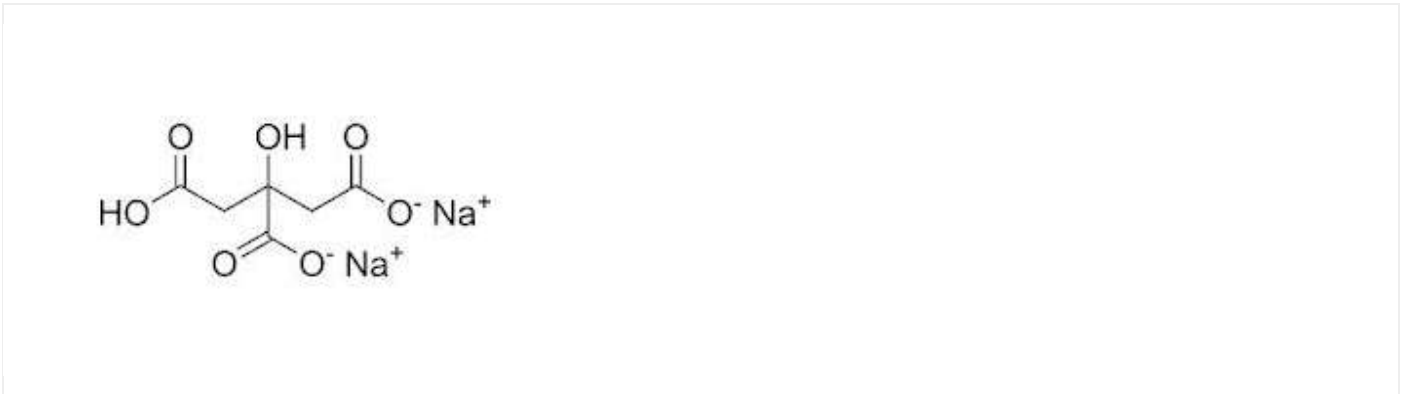
Precaution Statement: P261-P305 + P351 + P338

Risk Statement: .

DI-SODIUM HYDROGEN CITRATE EXTRAPURE

Confirms to BP Citric acid disodium salt, Sodium citrate dibasic

Product Code.	02418	Grade	
Purity	98%	CAS No.	144-33-2
Molecular Formula	Na2H6C6O7.11/2H2O	Molecular Weight	263.11
H.S.Code	2918.15400	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.5 - 5.5 at 263.1 g/l at 25 °C	Melting point/ Freezing point [°C]	149 °C	Solubility in water [% weight]	263.1 g/l at 20 °C

Packaging

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Specification

Appearance	White crystalline powder
Assay (as C6H6Na2O7.1½ H2O)	98.0 - 104.0%
Solubility	Freely soluble in water & practically Insoluble in methanol
Identification	To comply BP
pH (3% w/v solution in water)	4.9 to 5.2
Arsenic (As)	Max. 0.0002%
Heavy metal	Max. 0.002%

Chloride (Cl)	Max. 0.033%
Oxalate (as C2H2O4)	Max. 0.015%
Sulphate (SO4)	Max. 0.12%
Readily carbonisable substance	Passes test

Safety Information and Hazard Symbols

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ETHYLENEDIAMINE TETRA ACETIC ACID DISODIUM SALT DIHYDRATE 99%
AR
EDTA disodium salt

Product Code.	01167	Grade	AR
Purity	99%	CAS No.	6381-92-6
Molecular Formula	C10H14N2Na2O8.2H2O	Molecular Weight	372.24
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4 - 5 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	248 °C	Flash point [°C]	> 100 °C
Solubility in water [% weight]	100 g/l at 20 °C				

Packaging

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Specification

Appearance	White crystalline powder
Assay (complexometric; on anhydrous basis)	99.0 - 101.0%
pH (5% solution in water)	4 - 5
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.0005%
Copper (Cu)	Max 0.00025%

Insoluble matter in water	Max 0.005%
Nitrilotriacetic acid	Max 0.05%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.02%
Calcium (Ca)	Max 0.002%
Nickel (Ni)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Loss on drying (at 150°C; 6 hrs)	8.7 - 11.4%

Safety Information and Hazard Symbols

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ETHYLENEDIAMINE TETRA ACETIC ACID DISODIUM SALT DIHYDRATE 99%
EXTRAPURE
EDTA disodium salt

Product Code.	01166	Grade	Extrapure
Purity	99%	CAS No.	6381-92-6
Molecular Formula	C10H14N2Na2O8.2H2O	Molecular Weight	372.24
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4 - 5 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	248 °C	Flash point [°C]	> 100 °C
Solubility in water [% weight]	100 g/l at 20 °C				

Packaging

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Specification

Appearance	White crystalline powder
Assay (complexometric)	99.0 - 101.0%
pH (5% solution in water)	4 - 5
Insoluble matter in water	Max 0.01%
Chloride (Cl)	Max 0.02%
Sulphate (SO4)	Max 0.1%

Cyanide (CN)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0001%
Iron (Fe)	Max 0.0005%
Nitrilotriacetic acid	Max 0.1%
Water (H2O)	8.7 - 11.4%

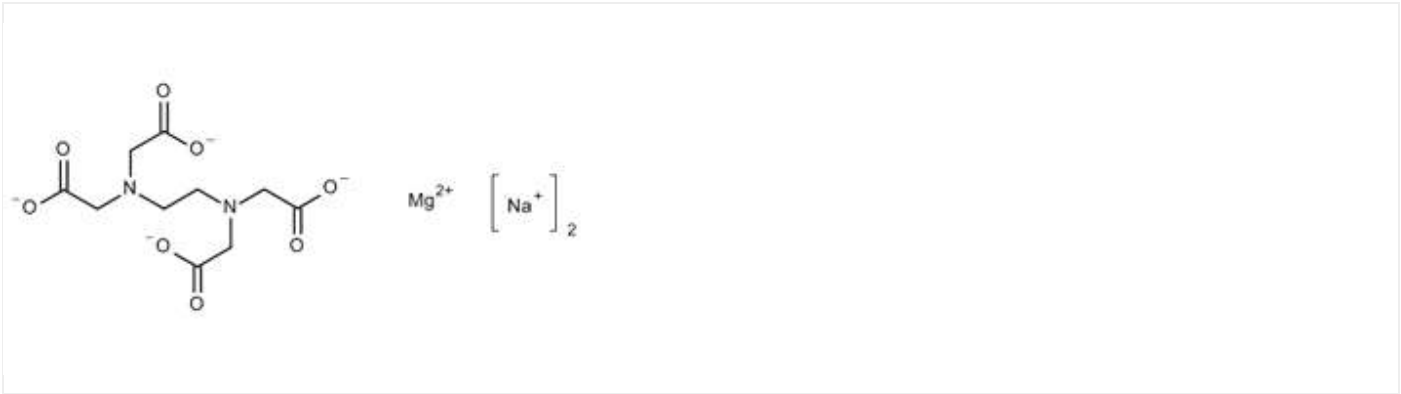
Safety Information and Hazard Symbols

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ETHYLENEDIAMINE TETRA ACETIC ACID MAGNESIUM SALT 98.5%
EXTRAPURE

EDTA disodium magnesium salt, Ethylenediaminetetraacetic acid disodium magnesium salt

Product Code.	01169	Grade	
Purity	98.5%	CAS No.	14402-88-1
Molecular Formula	C10H12MgN2Na2O8.xH2O	Molecular Weight	358.50
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	7.5	Melting point/ Freezing point [°C]	>300°C	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	White crystalline powder
Assay (complexometric; on anhydrous basis)	Min 98.5%
pH	6 - 7.5
Water (by KF)	6 - 12%

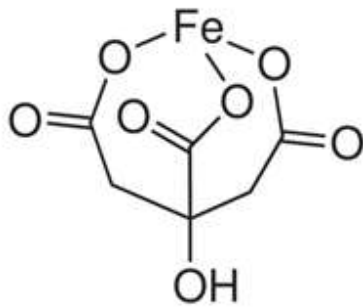
Safety Information and Hazard Symbols

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FERRIC CITRATE FOR BACTERIOLOGY

Iron(III) citrate

Product Code.	01213	Grade	
Purity	(Fe) Min. 18-20%	CAS No.	2338-05-8
Molecular Formula	C ₆ H ₅ FeO ₇ .H ₂ O	Molecular Weight	262.96
H.S.Code	2918.15900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Garnet red powder	Odour	Odorless
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	Orange to brown and very dark red brown powder
Iron content	18 - 20%
Chloride (Cl)	Max 0.05%
Ammonium (NH ₄)	Max 0.5%
Arsenic (As)	Max 0.0005%

Cadmium (Cd)	Max 0.005%
Copper (Cu)	Max 0.005%
Lead (Pb)	Max 0.005%
Zinc (Zn)	Max 0.005%

Safety Information and Hazard Symbols

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FERROUS SULPHIDE STICKS

Fused sticks for producing H2S. Iron(II) Sulphide

Product Code.	01227	Grade	
Purity		CAS No.	1317-37-9
Molecular Formula	FeS	Molecular Weight	87.91
H.S.Code	2830.90100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Bluish black sticks	Odour	Odorless
Melting point/ Freezing point [°C]	1194°C	Density [g/cm3]	4.84 g/cm3 at 25 °C	Solubility in water [% weight]	Slightly soluble in water

Packaging

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Specification

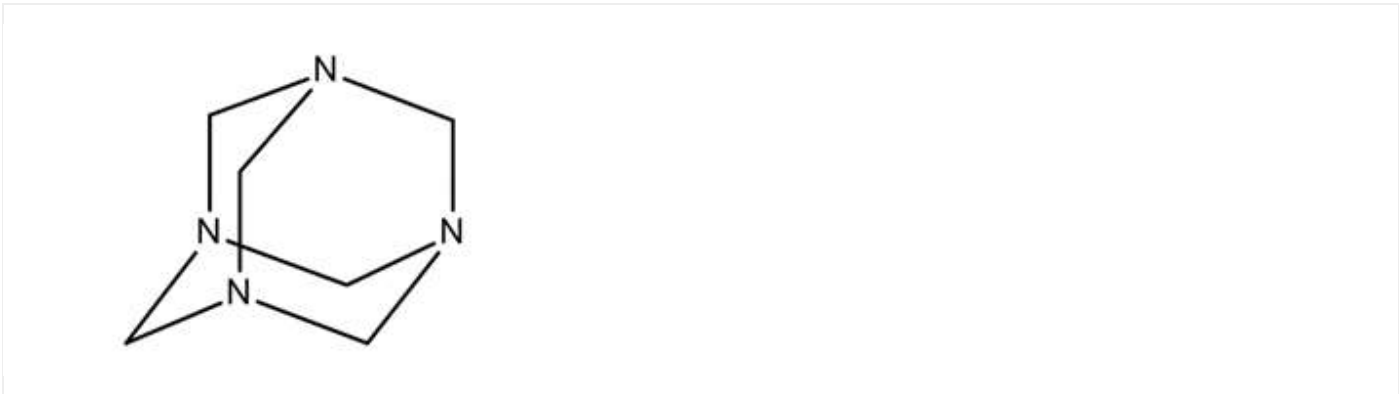
Appearance	Bluish black sticks
Sulphide sulphur	Min 29%

Safety Information and Hazard Symbols

HEXAMINE 99% AR

Methenamine; 1,3,5,7-Tetraazatricyclo[3.3.1.1^{3,7}]decane; Hexamethylenetetramine; Urotropine

Product Code.	01346	Grade	AR
Purity	99%	CAS No.	100-97-0
Molecular Formula	C6H12N4	Molecular Weight	140.19
H.S.Code	2933.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White Crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	280 °C	Auto-ignition temperature [°C]	410 °C	Flash point [°C]	250 °C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Vapour density	4.9	Density [g/cm3]	1.33
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White crystalline powder
Assay (by NaOH titration; on anhydrous basis)	Min. 99.0%
Loss on dryig (at 105°C; 4 hrs)	Max. 2.0%
Residue on ignition (as ash)	Max. 0.1%
Heavy metal (as Pb)	Max. 0.001%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Warning

UN No.: 1328

IMCO Class No.: 4.1

Packing Group: III

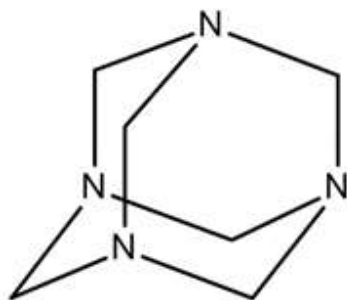
Hazardous Statement: H228-H317

Precaution Statement: P210-P280

HEXAMINE 99% EXTRAPURE

Methenamine; 1,3,5,7-Tetraazatricyclo[3.3.1.1^{3,7}]decane; Hexamethylenetetramine; Urotropine

Product Code.	01345	Grade	
Purity	99%	CAS No.	100-97-0
Molecular Formula	C6H12N4	Molecular Weight	140.19
H.S.Code	2933.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White Crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	280 °C	Auto-ignition temperature [°C]	410 °C	Flash point [°C]	250 °C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Vapour density	4.9	Density [g/cm3]	1.33
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White crystalline powder
Assay (by NaOH titration; on anhydrous basis)	Min 99.0%
pH (aqueous solution)	8.0 - 9.0
Loss on dryig (at 105°C; 4 hrs)	Max 2.0%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Warning

UN No.: 1328

IMCO Class No.: 4.1

Packing Group: III

Hazardous Statement: H228-H317

Precaution Statement: P210-P280

HYDRAZINE DIHYDROCHLORIDE 99%

Product Code.	1372A	Grade	
Purity	99%	CAS No.	5341-61-7
Molecular Formula	NH NH .2HCl	Molecular Weight	104.97
H.S.Code	2825.10900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	200 °C
Boiling point [°C]	200°C	Density [g/cm3]	1.42	Solubility in water [% weight]	Freely soluble

Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Powder and/or chunks
Infrared spectrum	Conforms
Titration Argentometric	>=98.5 %

Safety Information and Hazard Symbols


Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3288 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H311-H317-H331-H350-H410 Precaution Statement: P201-P261-P273-P280-P301 + P310-P311

HYDRAZINE DIHYDROCHLORIDE 99% EXTRAPURE

Hydrazinium Chloride ; hydrazine chloride

Product Code.	01372	Grade	Extrapure
Purity	99%	CAS No.	5341-61-7
Molecular Formula	N2H4.2HCl	Molecular Weight	104.97
H.S.Code	2825.10900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	200 °C
Boiling point [°C]	200°C	Density [g/cm3]	1.42	Solubility in water [% weight]	Freely soluble

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99.0%
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Residue on ignition (as SO4)	Max 0.1%

Safety Information and Hazard Symbols


Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3288 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H311-H317-H331-H350-H410 Precaution Statement: P201-P261-P273-P280-P301 + P310-P311

HYDRAZINE SULPHATE 98% EXTRAPURE
Hydrazinium Sulphate

Product Code.	01373	Grade	Extra Pure
Purity	98%	CAS No.	10034-93-2
Molecular Formula	N2H6SO4	Molecular Weight	130.12
H.S.Code	2825.10300	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	1.3 (0.2 M solution)	Melting point/ Freezing point [°C]	141 - 142 °C	Density [g/cm3]	1.37
Solubility in water [% weight]	3g/100g cold water	Partition coefficient Log Pow octanol / water at 20°C	1.069		

Specification

Appearance	White powder.
Assay (iodometric)	Min 98%
Chloride (Cl)	Max 0.002%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Residue on ignition (as SO4)	Max 0.1%

Safety Information and Hazard Symbols


Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3288 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H350-H311-H317-H331-H301-H410 Precaution Statement: P280-P301 + P310-P302-P352-P304-P340-P308-313-P273

HYDRAZINE SULPHATE 99% AR

Hydrazinium Sulphate

Product Code.	01374	Grade	AR
Purity	99%	CAS No.	10034-93-2
Molecular Formula	N2H6SO4	Molecular Weight	130.12
H.S.Code	2825.10300	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	1.3 (0.2 M solution)	Melting point/ Freezing point [°C]	141 - 142 °C	Density [g/cm3]	1.37
Solubility in water [% weight]	3g/100g cold water	Partition coefficient Log Pow octanol / water at 20°C	1.069		

Specification

Appearance	White crystalline powder
Assay	Min 99.0%
Insoluble matter	Max 0.003%
Residue on ignition	Max 0.02%
Chloride (Cl)	Max 0.001%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.0005%

Safety Information and Hazard Symbols

  
Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3288 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H350-H311-H317-H331-H301-H410 Precaution Statement: P280-P301 + P310-P302-P352-P304-P340-P308-313-P273

IODINE (RESUBLIMED) 98.5% EXTRAPURE

Product Code.	01450	Grade	Extra Pure
Purity	98.5%	CAS No.	7553-56-2
Molecular Formula	I2	Molecular Weight	253.81
H.S.Code	2801.20000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Bluish-black crystals	Odour	Pungent odor
pH value	5.4	Melting point/ Freezing point [°C]	113 °C	Boiling point [°C]	184 °C
Vapour pressure [20°C]	0.3 mm Hg @ 20°C	Vapour pressure mm/Hg	0.3 mm Hg @ 20°C	Vapour density	8.8
Density [g/cm3]	4.98	Solubility in water [% weight]	0.03 g/100 g water @ 20°C	Partition coefficient Log Pow octanol / water at 20°C	2.49

Packaging

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Specification

Appearance	Grayish-black crystalline flakes/granules with metallic luster
Assay (iodometric)	Min 98.5%
Chlorine and bromine (as Cl)	Max 0.025%
Non volatile matter	Max 0.05%

Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3495 IMCO Class No.: 8,6.1 Packing Group: III Hazardous Statement: H312-H332-H400 Precaution Statement: P273-P280

IODINE (RESUBLIMED) 99.8% AR

(Confirms to IP, BP, USP)

Product Code.	01451	Grade	AR
Purity	99.8%	CAS No.	7553-56-2
Molecular Formula	I ₂	Molecular Weight	253.81
H.S.Code	2801.20000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Bluish-black crystals	Odour	Pungent odor
pH value	5.4	Melting point/ Freezing point [°C]	113 °C	Boiling point [°C]	184 °C
Vapour pressure [20°C]	0.3 mm Hg @ 20°C	Vapour pressure mm/Hg	0.3 mm Hg @ 20°C	Vapour density	8.8
Density [g/cm ³]	4.98	Solubility in water [% weight]	0.03 g/100 g water @ 20°C	Partition coefficient Log Pow octanol / water at 20°C	2.49

Specification

Appearance	Heavy, grayish-black plates or granules, having a metallic luster and a characteristic odor
Assay (iodometric)	99.8 - 100.5%
Identifications	To comply IP, BP, USP
Solubility	Very slightly soluble in water; freely soluble in carbon disulfide, in chloroform, in carbon tetrachloride, and in ether; soluble in alcohol and in so
Non volatile matter (at 105°C)	Max 0.005%
Chlorine and bromine (as Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.002%

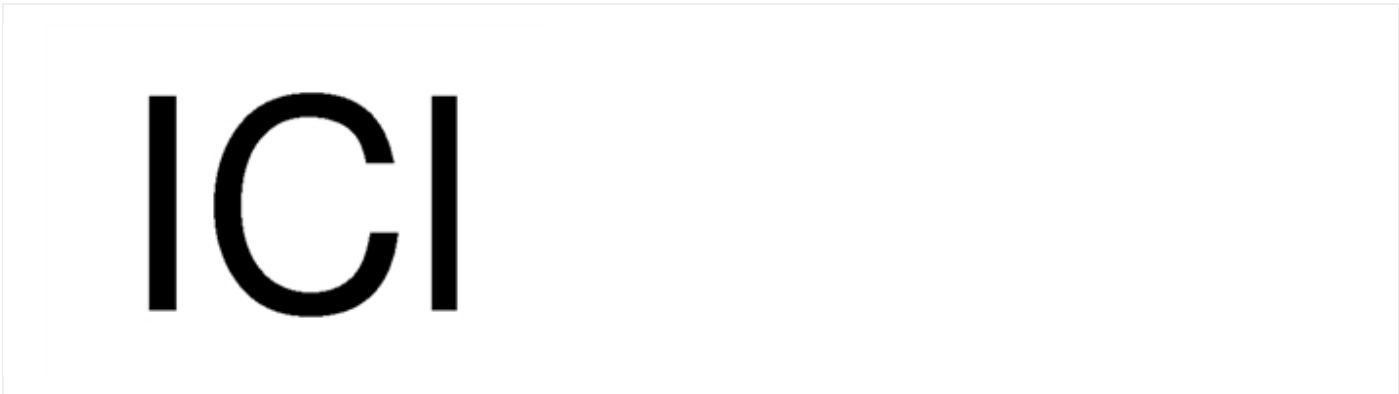
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3495 IMCO Class No.: 8 (6.1) Packing Group: III Hazardous Statement: H312-H332-H400 Precaution Statement: P273-P280

IODINE MONOCHLORIDE 98% FOR SYNTHESIS

Iodine chloride

Product Code.	01460	Grade	For Synthesis
Purity	98%	CAS No.	7790-99-0
Molecular Formula	ICI	Molecular Weight	162.36
H.S.Code	2812.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Dark reddish brown	Melting point/ Freezing point [°C]	27°C
Boiling point [°C]	97.4 °C	Vapour density	5.5	Density [g/cm3]	3.24

Specification

Appearance	A dark reddish brown oily liquid
Assay	Min 98%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS08 Signal Word: Danger UN No.: 1792 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H334 Precaution Statement: P261-P280-P305 + P351 + P338-P310

IODINE MONOCHLORIDE, ACS REAGENT

Product Code.	1460A	Grade	
Purity		CAS No.	7790-99-0
Molecular Formula	ICl	Molecular Weight	162.36
H.S.Code	2812.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Dark reddish brown	Melting point/ Freezing point [°C]	27°C
Boiling point [°C]	97.4 °C	Vapour density	5.5	Density [g/cm3]	3.24

Packaging

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Specification

Appearance (Color)	Dark red-brown to brown to black
Appearance (Form)	Liquid or solid
Assay	1.00 to 1.20 (I/Cl ratio of the Wijs solution prepared from the reagent)
Insoluble matter	=<0.005 %

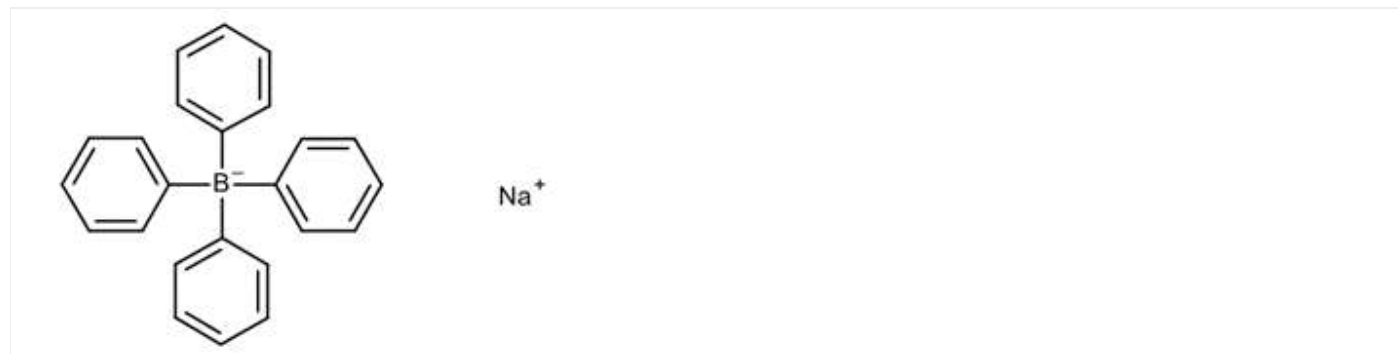
Safety Information and Hazard Symbols


Symbol: GHS05, GHS08 Signal Word: Danger UN No.: 1792 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H334 Precaution Statement: P261-P280-P305 + P351 + P338-P310

KALIGNOST 99.5% AR

Sodium Tetraphenyl Boron

Product Code.	01484	Grade	AR
Purity	99.5%	CAS No.	143-66-8
Molecular Formula	C ₂₄ H ₂₀ BNa	Molecular Weight	342.23
H.S.Code	2931.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white to pale yellow	Odour	Odorless
pH value	8 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	> 300 °C	Solubility in water [% weight]	50 g/l at 20 °C - soluble

Specification

Appearance	White to light beige powder
Assay (by HClO ₄ titration)	Min 99.5%
Appearance of solution	Passes test
Loss on drying (at 105°C)	Max 0.5%
Sensitivity for K	Passes test

Safety Information and Hazard Symbols


Symbol: GHS06 Signal Word: Danger UN No.: 2811 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301 Precaution Statement: P301 + P310

LEAD FLUOROBORATE SOLUTION 50% FOR ELECTROPLATING

Lead boron fluoride; Lead(II) tetrafluoroborate ; Liquid, d. 1.615

Product Code.	01526	Grade	
Purity	49%	CAS No.	13814-96-5
Molecular Formula	B2F8Pb	Molecular Weight	380.80
H.S.Code	28372090.00000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Density [g/cm3]	1.62
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Packaging



Specification

Appearance	Colorless liquid
Assay	Min 49%
Density (d20°C/4°C)	~1.62

Safety Information and Hazard Symbols



Symbol: GHS05,GHS07,GHS08,GHS09

Signal Word: Danger

UN No.: 2922

IMCO Class No.: 8,6.1

Packing Group: II

Hazardous Statement: H302-H314-H335-H360Df-H373-H410

Precaution Statement: P201-P280-P303+361+353-P304+340+310-P305+351+338-P308+313

Risk Statement: 61-20/22-33-50/53-62

Safety Statement: 53-45-60-61

LITHIUM NITRATE 97% EXTRAPURE

Product Code.	01559	Grade	
Purity	98%	CAS No.	7790-69-4
Molecular Formula	LiNO3	Molecular Weight	68.95
H.S.Code	2834.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	264 °C	Density [g/cm3]	2.38	Solubility in water [% weight]	50 g/100 ml water

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 98%
Barium (Ba)	Max 0.0002%
Calcium (Ca)	Max 0.02%
Chloride (Cl)	Max 0.002%
Heavy metal (as Pb)	Max 0.005%
Insoluble matter	Max 0.01%
Sulphate (SO4)	Max 0.1%
Iron (Fe)	Max 0.001%
Potassium (K)	Max 0.05%
Sodium (Na)	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS03

Signal Word: Warning

UN No.: 2722

IMCO Class No.: 5.1

Packing Group: III

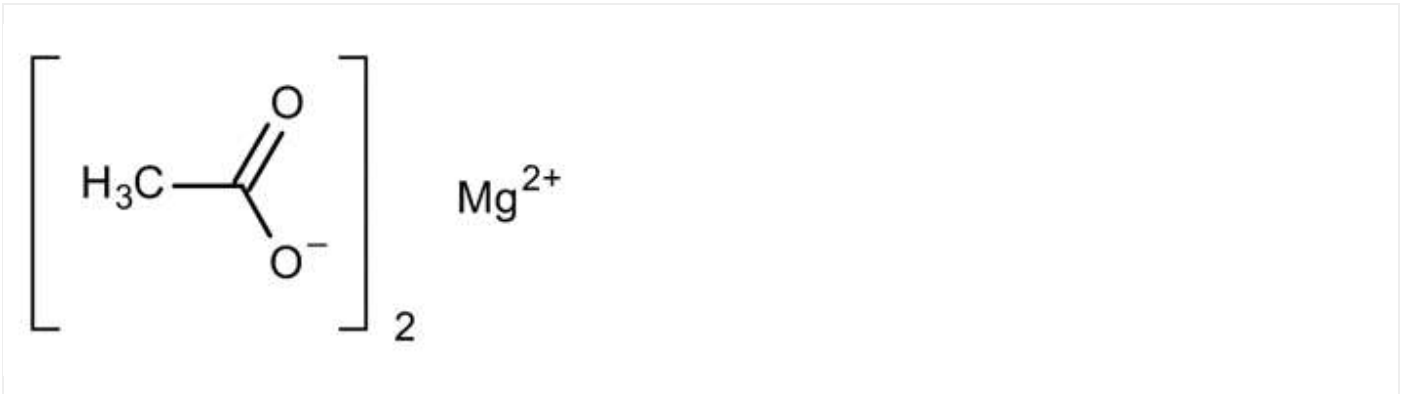
Hazardous Statement: H272

Precaution Statement: P220

MAGNESIUM ACETATE TETRAHYDRATE 98% AR

Acetic acid magnesium salt

Product Code.	01582	Grade	
Purity	98-102%	CAS No.	16674-78-5
Molecular Formula	(CH3.COO)2Mg.4H2O	Molecular Weight	214.45
H.S.Code	2915.29200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Acetic odour
pH value	7 - 9	Melting point/ Freezing point [°C]	72 - 75 °C	Density [g/cm3]	1.454
Solubility in water [% weight]	120% in water				

Packaging

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Specification

Appearance	White crystalline powder
Assay	98 - 102%
Substance insoluble in water	Max 0.005%
Sulphate (SO4)	Max 0.005%
Barium (Ba)	Max 0.001%
Chloride (Cl)	Max 0.001%

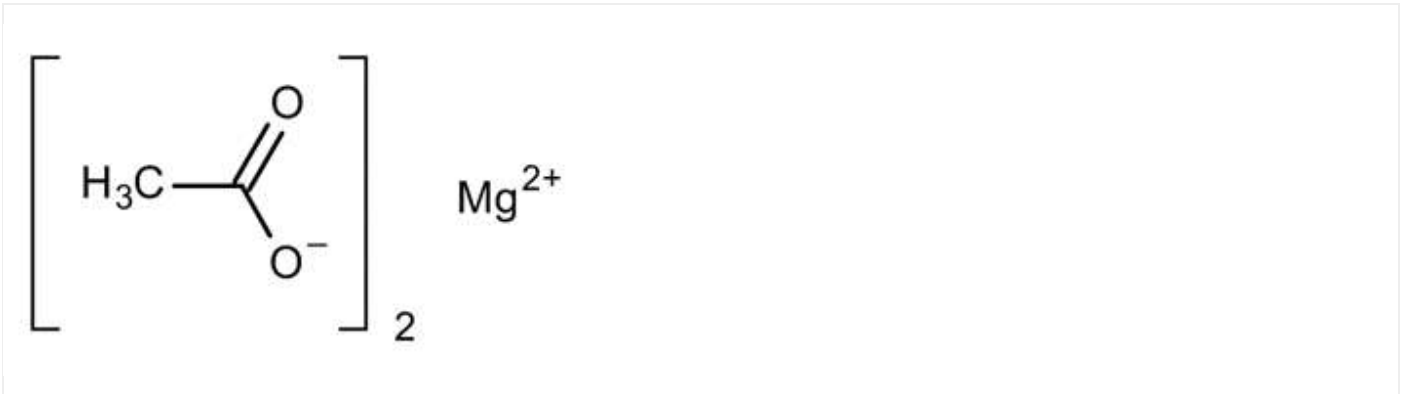
Iron (Fe)	Max 0.0005%
Calcium (Ca)	Max 0.01%
Manganese (Mn)	Max 0.001%
Potassium (K)	Max 0.005%
Sodium (Na)	Max 0.005%
Strontium (Sr)	Max 0.005%
Heavy metal (as Pb)	Max 0.0005%

Safety Information and Hazard Symbols

MAGNESIUM ACETATE TETRAHYDRATE 98% EXTRAPURE

Acetic acid magnesium salt

Product Code.	01581	Grade	Extrapure
Purity	98%	CAS No.	16674-78-5
Molecular Formula	(CH3.COO)2Mg.4H2O	Molecular Weight	214.45
H.S.Code	2915.29200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Acetic odour
pH value	7 - 9	Melting point/ Freezing point [°C]	72 - 75 °C	Density [g/cm3]	1.454
Solubility in water [% weight]	120% in water				

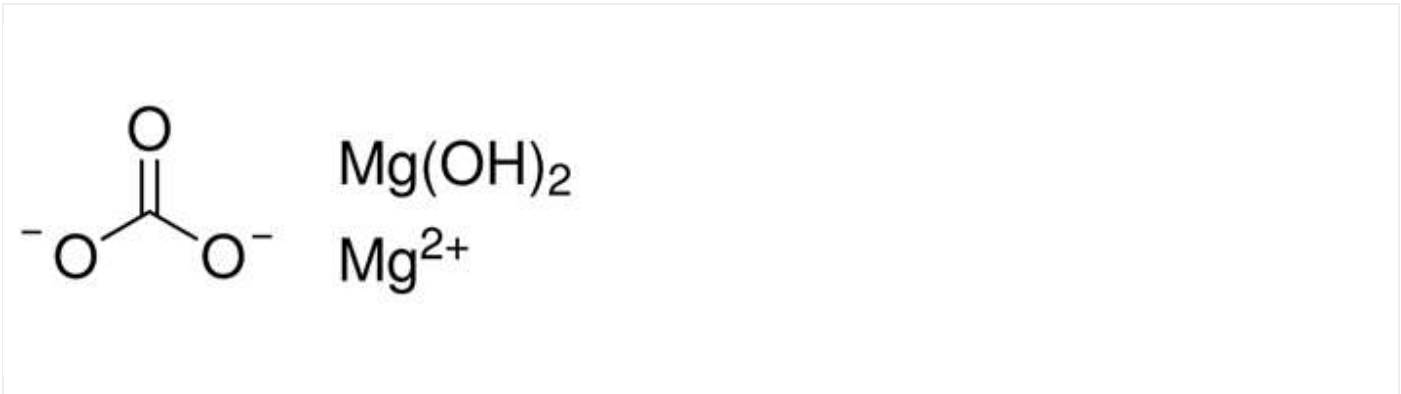
Specification

Appearance	White crystalline powder
Assay	98 - 102%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%
Lead (Pb)	Max 0.002%

MAGNESIUM CARBONATE BASIC LIGHT 40% EXTRAPURE

Magnesium hydroxide carbonate

Product Code.	01586	Grade	Extrapure
Purity	40%	CAS No.	39409-82-0
Molecular Formula	MgCO3	Molecular Weight	84.31
H.S.Code	2836.99200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	600°C	Decomposition point [°C]	600°C	Density [g/cm3]	2.16
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	A light white powder
Assay (as MgO; complexometric)	40.0 - 50.0%
Appearance of solution	Passes test
Substance soluble in water	Max 1%
Substance insoluble in acetic acid	Max 0.05%
Chloride (Cl)	Max 0.125%
Sulphate (SO4)	Max 0.3%

Heavy metal (as Pb)	Max 0.002%
Arsenic (As)	Max 0.0002%
Calcium (Ca)	Max 0.75%
Iron (Fe)	Max 0.04%

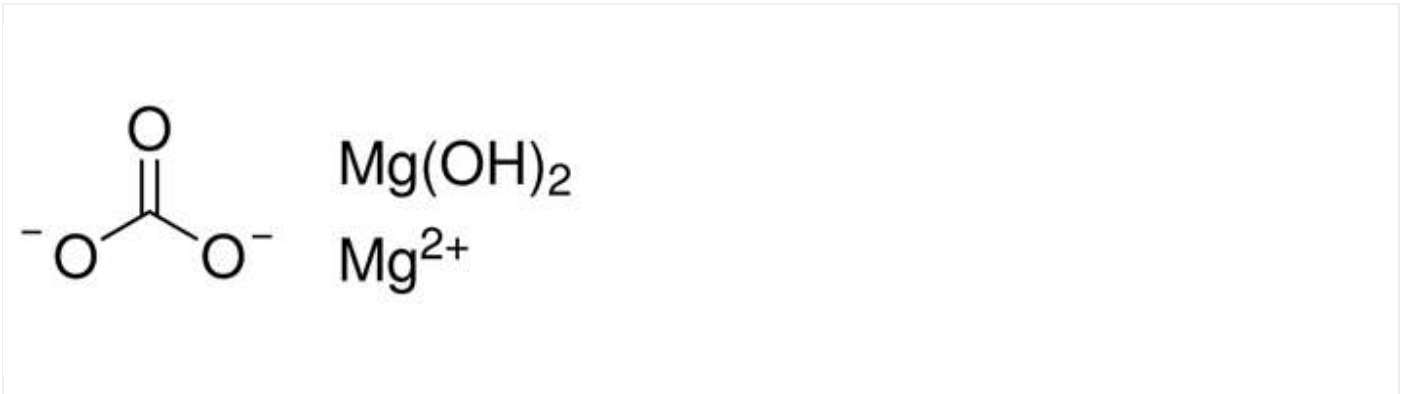
Safety Information and Hazard Symbols

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MAGNESIUM CARBONATE BASIC LIGHT AR

Antidote for poisoning with acids, arsenic (III) oxide and metal salts. Magnesium hydroxide carbonate

Product Code.	01587	Grade	
Purity	40-50%	CAS No.	39409-82-0
Molecular Formula	MgCO3	Molecular Weight	84.31
H.S.Code	2836.99200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	600°C	Decomposition point [°C]	600°C	Density [g/cm3]	2.16
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	A light white powder
Assay (as Mg; complexometric)	Min 24%
Substance soluble in water	Max 0.5%
Substance soluble in hydrochloric acid	Max 0.005%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.003%
Total nitrogen (N)	Max 0.001%

Heavy metal (as Pb)	Max 0.001%
Barium and strontium (as Ba)	Max 0.001%
Calcium (Ca)	Max 0.01%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Potassium (K)	Max 0.001%
Sodium (Na)	Max 0.1%
Lead (Pb)	Max 0.001%
Zinc (Zn)	Max 0.0005%

Safety Information and Hazard Symbols

MAGNESIUM TRISILICATE HYDRATE POWDER EXTRAPURE

Volatile organic impurities excluded by manufacturer, handling and storage. Magnesii trisilicas; di-Magnesium trisilicate Assay : Min. 20% (MgO), 45% (SiO2)

Product Code.	01607	Grade	
Purity		CAS No.	39365-87-2
Molecular Formula	2MgO.3SiO2.xH2O	Molecular Weight	0.00
H.S.Code	2839.90100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Density [g/cm3]	2.5	Solubility in water [% weight]	Insoluble in water		

Packaging

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Specification

Appearance	A fine white powder
Assay (as MgO; on ignited basis)	Min 29%
Alkalinity	Passes IP test
Arsenic (As)	Max 0.0004%
Heavy metal (as Pb)	Max 0.004%
Chloride (Cl)	Max 0.05%
Sulphate (SO4)	Max 0.5%

Acid absorption	Passes IP test
Water soluble salts	Passes IP test
Loss on ignition (at 900°C)	17 - 34%

Safety Information and Hazard Symbols

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MANGANESE (II) CHLORIDE TETRAHYDRATE 97% EXTRAPURE

Manganous Chloride

Product Code.	01628	Grade	Extrapure
Purity	97%	CAS No.	13446-34-9
Molecular Formula	MnCl2.4H2O	Molecular Weight	197.90
H.S.Code	2827.39900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Pink crystalline	Odour threshold	Odorless
pH value	4 - 6	Melting point/ Freezing point [°C]	58 °C	Boiling point [°C]	198°C
Density [g/cm3]	2.01	Solubility in water [% weight]	99 g/l at 20 °C - completely soluble		

Packaging

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Specification

Appearance	Pale pink to pink crystalline powder
Assay	Min 97.0%
Calcium (Ca)	Max 0.1%
Copper (Cu)	Max 0.0002%
Iron (Fe)	Max 0.003%
Lead (Pb)	Max 0.002%
Zinc (Zn)	Max 0.02%
Substance reducing iodine (I)	Max 0.0065%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

MANGANESE (II) CHLORIDE TETRAHYDRATE 98% AR

Product Code.	01629	Grade	
Purity	98%	CAS No.	13446-34-9
Molecular Formula	MnCl2.4H2O	Molecular Weight	197.90
H.S.Code	2827.39900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Pink crystalline	Odour threshold	Odorless
pH value	4 - 6	Melting point/ Freezing point [°C]	58 °C	Boiling point [°C]	198°C
Density [g/cm3]	2.01	Solubility in water [% weight]	99 g/l at 20 °C - completely soluble		

Packaging

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Specification

Appearance	Pale pink crystalline powder
Assay	98 - 101%
Insoluble matter	Max 0.003%
Sulphate (SO4)	Max 0.0025%
Barium (Ba)	Max 0.01%
Calcium (Ca)	Max 0.04%
Copper (Cu)	Max 0.0002%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.0002%
Magnesium (Mg)	Max 0.04%
Nickel (Ni)	Max 0.002%
Potassium (K)	Max 0.01%
Sodium (Na)	Max 0.02%

Zinc (Zn)	Max 0.02%
Substance reducing iodine	Max 0.0065%

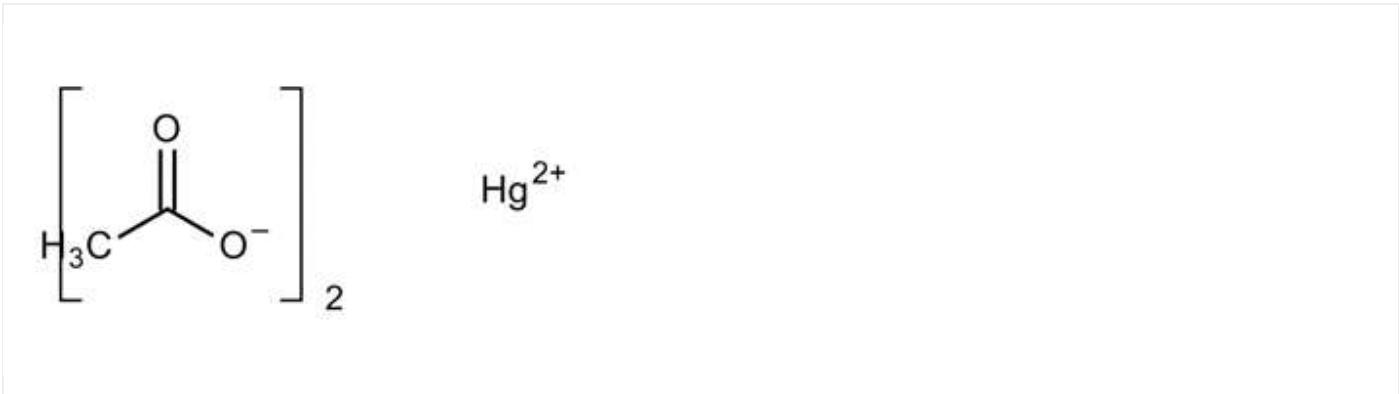
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

MERCURIC ACETATE 99% AR

Mercury(II) acetate

Product Code.	01658	Grade	AR
Purity	99%	CAS No.	1600-27-7
Molecular Formula	(CH3COO)2Hg	Molecular Weight	318.68
H.S.Code	2852.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Slight acetic acid odor
Melting point/ Freezing point [°C]	179 - 182 °C	Vapour density	11	Density [g/cm3]	3.27
Solubility in water [% weight]	25 g/100 ml water @ 100C				

Packaging

Specification

Appearance	White crystalline powder
Assay	Min 99.0%
Substance insoluble in dilute acetic acid	Max 0.01%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Nitrate (NO3)	Max 0.005%

Foreign heavy metals (as Pb)	Max 0.002%
Iron (Fe)	Max 0.001%
Mercury (I) (as Hg)	Max 0.3%
Substance not reducible with formic acid (Residue on ignition as SO ₄)	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1629

IMCO Class No.: 6.1

Packing Group: II

Hazardous Statement: H300-H310-H330-H373-H410

Precaution Statement: P260-P264-P273-P280-P284-P301 + P310

MERCURIC BROMIDE 99% AR
Mercury(II) bromide

Product Code.	01661	Grade	AR
Purity	99%	CAS No.	7789-47-1
Molecular Formula	HgBr2	Molecular Weight	360.40
H.S.Code	2852.10000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White	Odour	Odorless
Melting point/ Freezing point [°C]	236 °C	Vapour density	12	Density [g/cm3]	6.05
Solubility in water [% weight]	0.5 g/100 ml water @ 250C				

Packaging

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Specification

Appearance	White powder to off white powder
Assay	Min 99.0%
Substance insoluble in methanol	Max 0.05%
Chloride (Cl)	Max 0.25%
Residue after reduction	Max 0.02%

Safety Information and Hazard Symbols


Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 1634 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H300-H310-H330-H373-H410 Precaution Statement: P260-P264-P273-P280-P284-P301 + P310

MERCURIC POTASSIUM IODIDE EXTRAPURE

Product Code.	1673A	Grade	Extrapure
Purity	99.0%	CAS No.	7783-33-7
Molecular Formula	K2Hgl4	Molecular Weight	786.40
H.S.Code	0.00000	Shelf Life	60 Months

Physical Properties

Packaging

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Specification

Appearance	Yellow to dark orange crystalline powder or crystal
Assay	Min 95.0%
Solubility	Soluble in water
Melting point	120 - 127 deg C

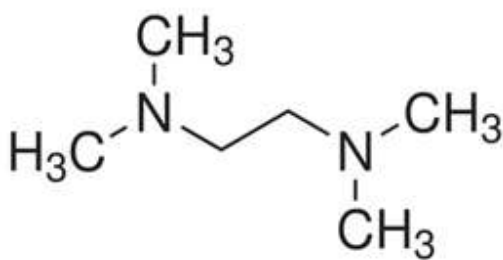
Safety Information and Hazard Symbols

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N,N,N',N'-TETRAMETHYL ETHYLENE DIAMINE 99% AR

Catalyst for cyanogum and acrylamide Polymerisation. 1,2-Bis(dimethylamino)ethane; TEMED; TMEDA

Product Code.	02661	Grade	AR
Purity	99%	CAS No.	110-18-9
Molecular Formula	C6H16N2	Molecular Weight	116.21
H.S.Code	2921.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Amine like
Melting point/ Freezing point [°C]	-55°C	Flammability (solid, gas)	Flammable	Flash point [°C]	17.22°C
Boiling point [°C]	121.5°C	Vapour pressure [20°C]	10 mm of Hg (@ 20°C)	Vapour pressure mm/Hg	10 mm of Hg (@ 20°C)
Vapour density	4	Density [g/cm3]	0.7765	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	Pale yellow colored liquid
Purity (by GC)	Min 99.0%
Iron (Fe)	Max 0.00001%
Water (H2O)	Max 0.5%

Sulphated ash	Max 0.005%
Refractive index (20°C; 589 nm)	~1.4179

Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 2372 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H302-H314-H332 Precaution Statement: P210-P280-P305 + P351 + P338-P310

OSMIC ACID 99.9% EXTRAPURE

Osmium tetroxide

Product Code.	01898	Grade	Extrapure
Purity	99.9%	CAS No.	20816-12-0
Molecular Formula	OsO4	Molecular Weight	254.20
H.S.Code	2843.90190	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless to pale yellow	Odour	Unpleasant
Melting point/ Freezing point [°C]	39.5 - 41 °C	Boiling point [°C]	130 °C	Vapour pressure [20°C]	9 hPa at 20 °C
Vapour density	8.8	Density [g/cm3]	4.9	Solubility in water [% weight]	5.7 g/100 g water @ 100C

Packaging

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Specification

Appearance	Yellow powder/ crystals
Assay	Min 99.9%
Non volatile matter	Max 0.02%
Ruthenium (Ru)	Max 0.01%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS08 Signal Word: Danger UN No.: 2471 IMCO Class No.: 6.1 Packing Group: I Hazardous Statement: H300-H310-H314-H330-H334 Precaution Statement: P260-P264-P280-P284-P301 + P310-P302 + P350

PHOSPHORUS PENTACHLORIDE 99% FOR SYNTHESIS

Phosphorus (V) chloride

Product Code.	02016	Grade	
Purity	99%	CAS No.	10026-13-8
Molecular Formula	PCl5	Molecular Weight	208.24
H.S.Code	2812.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	yellowish	Odour	Pungent odour
Melting point/ Freezing point [°C]	179 - 181 °C	Vapour pressure [20°C]	< 1 hPa at 20 °C	Density [g/cm3]	1.6
Solubility in water [% weight]	Reacts with water				

Packaging

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Specification

Appearance	Yellowish fuming solid
Assay (argentometric)	Min 99%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS08 Signal Word: Danger UN No.: 1806 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H302-H314-H330-H373 Precaution Statement: P260-P280-P284-P305 + P351 + P338-P310

PHOSPHORUS PENTOXIDE 97% FOR SYNTHESIS

Phosphoric anhydride; Phosphorus(V) oxide ; di-phosphorous pentoxide

Product Code.	02018	Grade	
Purity	97%	CAS No.	1314-56-3
Molecular Formula	P2O5	Molecular Weight	141.94
H.S.Code	2809.10000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Pungent odour
pH value	<2	Melting point/ Freezing point [°C]	340 °C	Vapour density	4.9
Density [g/cm3]	2.3	Solubility in water [% weight]	Exothermic reaction with water		

Packaging

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Specification

Appearance	White hygroscopic powder
Assay (acidimetric)	Min 97%
Chloride (Cl)	Max 0.005%
Heavy metal (as Pb)	Max 0.01%
Reducing substances (as P2O3)	Max 0.02%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 1807 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

PHOSPHORUS PENTOXIDE 98% AR

Phosphoric anhydride; Phosphorus(V) oxide

Product Code.	02019	Grade	
Purity	98%	CAS No.	1314-56-3
Molecular Formula	P2O5	Molecular Weight	141.94
H.S.Code	2809.10000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Pungent odour
pH value	<2	Melting point/ Freezing point [°C]	340 °C	Vapour density	4.9
Density [g/cm3]	2.3	Solubility in water [% weight]	Exothermic reaction with water		

Packaging

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Specification

Appearance	White hygroscopic powder
Assay (P2O5)	Min 98%
Chloride (Cl)	Max 0.001%
Nitrate (NO3)	Max 0.0005%
Insoluble matter	Max 0.02%
Reducing substances (as P2O3)	Max 0.02%
Ammonium (NH4)	Max 0.001%
Heavy metal (as Pb)	Max 0.01%
Arsenic (As)	Max 0.005%
Lead (Pb)	Max 0.005%
Cadmium (Cd)	Max 0.0005%
Iron (Fe)	Max 0.001%

Potassium (K)	Max 0.005%
Cobalt (Co)	Max 0.0005%
Copper (Cu)	Max 0.0005%
Manganese (Mn)	Max 0.0005%
Sodium (Na)	Max 0.005%
Nickel (Ni)	Max 0.0005%
Zinc (Zn)	Max 0.0005%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 1807 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

PHOSPHORUS TRIBROMIDE 98% FOR SYNTHESIS

Phosphorus(III) bromide

Product Code.	02020	Grade	
Purity	98%	CAS No.	7789-60-8
Molecular Formula	PBr3	Molecular Weight	270.69
H.S.Code	2812.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Irritating odour
Melting point/ Freezing point [°C]	-(41.5°C)	Boiling point [°C]	175 °C	Vapour pressure [20°C]	48 mm Hg @ 20°C
Vapour pressure mm/Hg	48 mm Hg @ 200C	Vapour density	9.3	Density [g/cm3]	2.8
Solubility in water [% weight]	Reacts with water	Partition coefficient Log Pow octanol / water at 20°C	2.28		

Packaging

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Specification

Appearance	Clear colourless to yellow liquid
Assay (argentometric)	Min 98%
Density (d20°C/4°C)	2.865 - 2.885

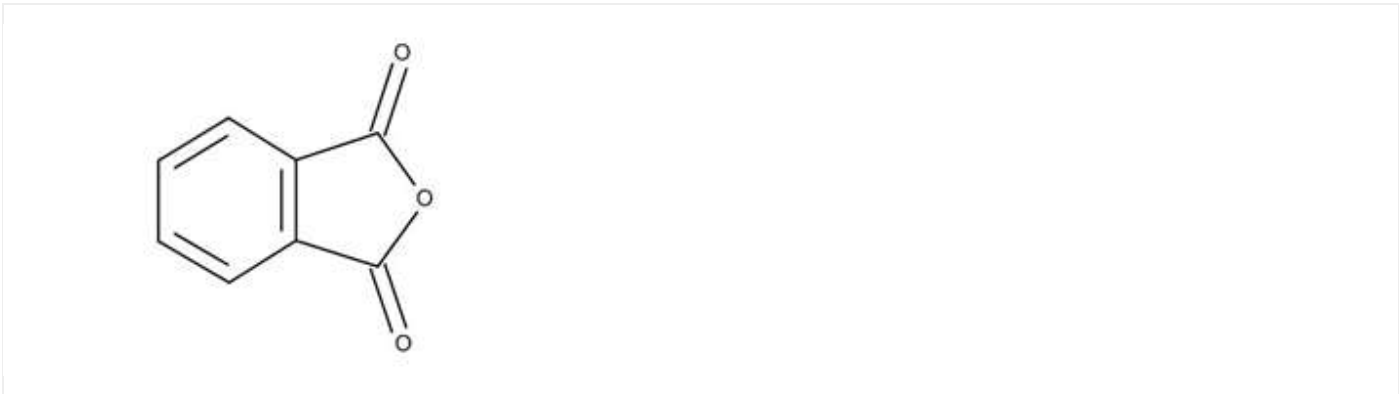
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 1808 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H335 Precaution Statement: P261-P280-P305 + P351 + P338-P310

PHTHALIC ANHYDRIDE 98% FOR SYNTHESIS

Isobenzofuran-1,3-dione

Product Code.	02029	Grade	For Synthesis
Purity	98%	CAS No.	85-44-9
Molecular Formula	C8H4O3	Molecular Weight	148.12
H.S.Code	2917.35000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Characteristic choking odor
pH value	2 at 6 g/l at 20 °C	Melting point/ Freezing point [°C]	131 - 134 °C	Auto-ignition temperature [°C]	570 °C
Flash point [°C]	152 °C	Boiling point [°C]	284 °C	Vapour pressure [20°C]	< 0.01 hPa at 20 °C
Vapour density	6.6	Density [g/cm3]	1.53	Solubility in water [% weight]	0.62 g/100 g water @ 200C
Explosion limits - upper [%]	10.40%	Explosion limits -lower [%]	1.70%		

Packaging

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Specification

Appearance	White Flakes
Assay	Min 98.0%
Melting range	129 - 132°C

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 2214

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H302-H315-H317-H318-H334-H335

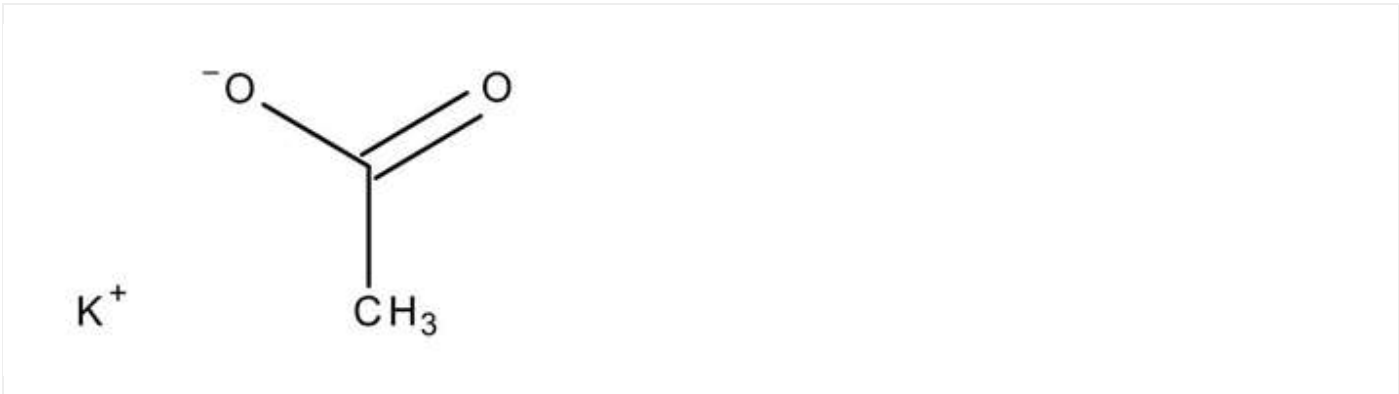
Precaution Statement: P261-P280-P305 + P351 + P338-P342 + P311

Risk Statement: 22-37/38-41-42/43

Safety Statement: 23-24/25-26-37/39-46

POTASSIUM ACETATE 99% AR

Product Code.	02064	Grade	
Purity	99%	CAS No.	127-08-2
Molecular Formula	CH3.COOK	Molecular Weight	98.14
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline powder	Odour	Odorless
pH value	7 - 9 at 98.2 g/l at 25 °C	Melting point/ Freezing point [°C]	303 - 307 °C	Density [g/cm3]	1.57
Solubility in water [% weight]	98.2 g/l at 20 °C - completely soluble				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99%
Insoluble matter	Max 0.005%
Reaction	pH 6.5 - 9.0
Chloride (Cl)	Max 0.003%

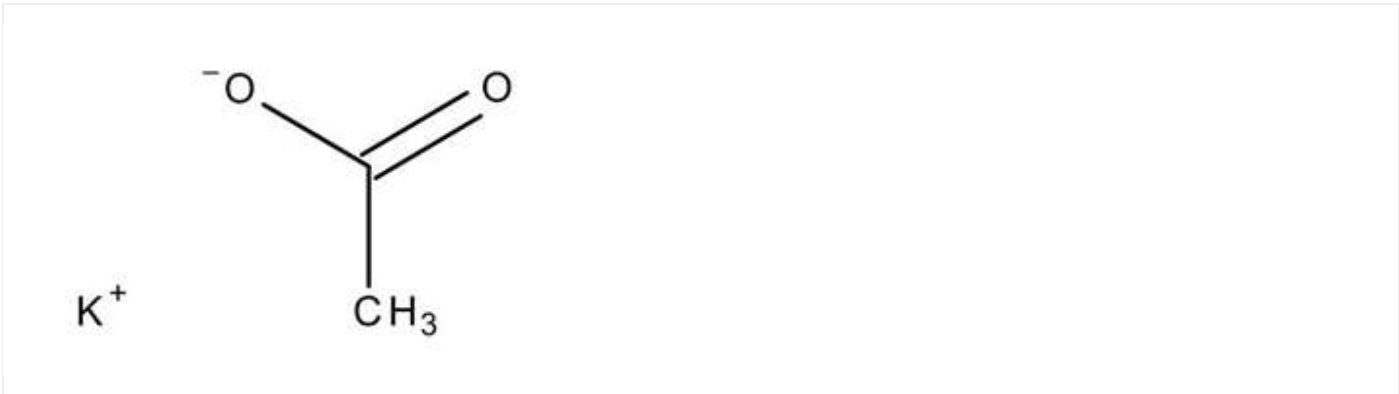
Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.002%
Aluminium (Al)	Max 0.0005%
Ammonium (NH4)	Max 0.0005%
Calcium (Ca)	Max 0.005%
Copper (Cu)	Max 0.0002%
Iron (Fe)	Max 0.0005%
Heavy metals (by ICP-OES)	Max 0.0005%
Magnesium (Mg)	Max 0.002%
Sodium (Na)	Max 0.03%

Safety Information and Hazard Symbols

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POTASSIUM ACETATE 99% EXTRAPURE

Product Code.	02063	Grade	Extrapure
Purity	99%	CAS No.	127-08-2
Molecular Formula	CH3COOK	Molecular Weight	98.14
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline powder	Odour	Odorless
pH value	7 - 9 at 98.2 g/l at 25 °C	Melting point/ Freezing point [°C]	303 - 307 °C	Density [g/cm3]	1.57
Solubility in water [% weight]	98.2 g/l at 20 °C - completely soluble				

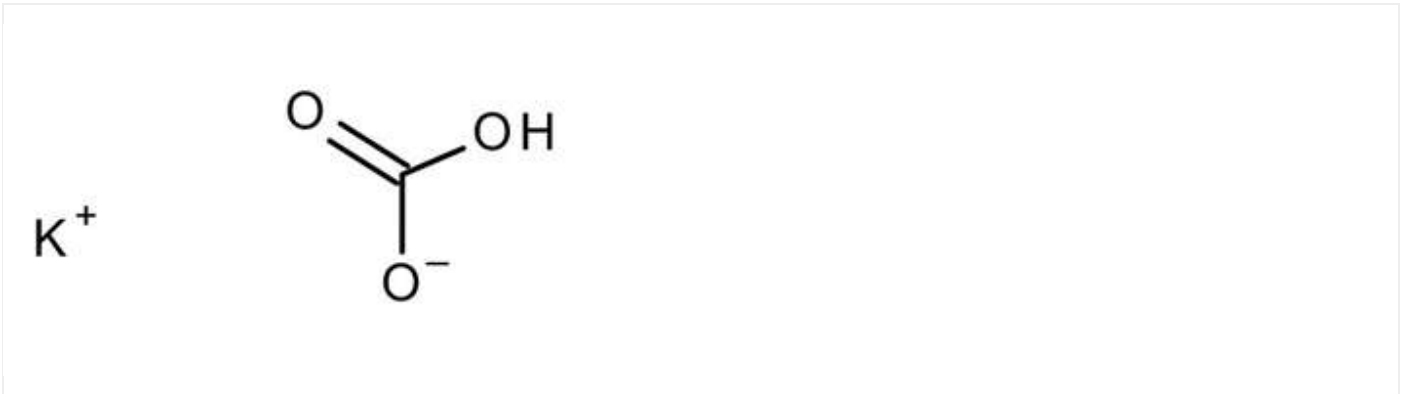
Specification

Appearance	White crystalline powder
Assay	Min 99.0%
Chloride (Cl)	Max 0.05%
Sulphate (SO4)	Max 0.05%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%

POTASSIUM BICARBONATE 99.5% EXTRAPURE

Confirms to BP Potassium hydrogen carbonate

Product Code.	02066	Grade	
Purity	99.5%	CAS No.	298-14-6
Molecular Formula	KHCO3	Molecular Weight	100.12
H.S.Code	2836.40000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8 - 9	Melting point/ Freezing point [°C]	100 - 120°C	Density [g/cm3]	2.17
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White crystalline powder
Assay (acidimetric)	99.5 - 101%
pH (1% solution in water)	8 - 8.6
Carbonate (as K2CO3)	Passes test
Chloride (Cl)	Max 0.015%
Sulphate (SO4)	Max 0.01%
Arsenic (As)	Max 0.0002%

Heavy metal (as Pb)	Max 0.0005%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.001%
Copper (Cu)	Max 0.0005%
Sodium (Na)	Max 0.5%
Zinc (Zn)	Max 0.0025%
Loss on drying (over silica gel)	Max 0.3%

Safety Information and Hazard Symbols

POTASSIUM BICARBONATE 99.7% AR

(potassium hydrogen carbonate)

Product Code.	02067	Grade	AR
Purity	99.7%	CAS No.	298-14-6
Molecular Formula	KHCO3	Molecular Weight	100.12
H.S.Code	28364000.00000	Shelf Life	60 Months

Physical Properties

Packaging



Specification

Appearance	Colorless to white crystals or crystalline powder
Assay (on dried basis)	99.7 to 100.5 % (by titration with HCl)
Insoluble matter	Max 0.01%
Chloride (Cl)	Max 0.001 %
Phosphate (PO4)	Max 0.0005 %
Sulphur compounds (as SO4)	Max 0.003 %
Ammonium (NH4)	Max 0.0005 %
Heavy metals (as Pb)	Max 0.0005 %
Iron (Fe)	Max 0.0005 %
Calcium (Ca)	Max 0.002 %
Magnesium (Mg)	Max 0.001 %
Sodium (Na)	Max 0.03 %

POTASSIUM BISULPHATE 98% EXTRAPURE

Potassium hydrogen sulfate

Product Code.	02068	Grade	
Purity	98%	CAS No.	7646-93-7
Molecular Formula	KHSO4	Molecular Weight	136.19
H.S.Code	2833.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White Crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	325°C	Boiling point [°C]	Decomposes	Density [g/cm3]	2.24
Solubility in water [% weight]	56 g in 100g of water				

Packaging

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Specification

Appearance	White crystalline powder
Assay (as KHSO4)	Min 98%
Chloride (Cl)	Max 0.005%
Heavy metal (as Pb)	Max 0.005%
Iron (Fe)	Max 0.005%
Calcium (Ca)	Max 0.02%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 2509 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H335 Precaution Statement: P261-P280-P305 + P351 + P338-P310

POTASSIUM BISULPHATE 99% AR

Potassium hydrogen sulfate

Product Code.	02069	Grade	
Purity	99%	CAS No.	7646-93-7
Molecular Formula	KHSO4	Molecular Weight	136.19
H.S.Code	2833.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White Crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	325°C	Boiling point [°C]	Decomposes	Density [g/cm3]	2.24
Solubility in water [% weight]	56 g in 100g of water				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99%
Insoluble matter	Max 0.003%
Chloride (Cl)	Max 0.0005%
Phosphate (PO4)	Max 0.001%
Total nitrogen (N)	Max 0.001%
Heavy metal (as Pb)	Max 0.0005%
Aluminium (Al)	Max 0.002%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.0005%
Sodium (Na)	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2509

IMCO Class No.: 8

Packing Group: II

Hazardous Statement: H314-H335

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

POTASSIUM BROMATE 99.5% EXTRAPURE

Product Code.	02071	Grade	
Purity	99.6%	CAS No.	1/2/7758
Molecular Formula	KBrO3	Molecular Weight	167.00
H.S.Code	2829.90200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 -9	Melting point/ Freezing point [°C]	350 °C	Boiling point [°C]	370°C
Vapour density	5.8	Density [g/cm3]	3.27	Solubility in water [% weight]	16.7 g/l at 20 °C

Specification

Appearance	White crystalline powder
Assay (iodometric)	Min 99.6%
Bromide (Br)	Max 0.05%
Sulphate (SO4)	Max 0.01%
Total nitrogen (N)	Max 0.003%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS06, GHS08 Signal Word: Danger UN No.: 1484 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H271-H301-H350 Precaution Statement: P201-P220-P301 + P310-P308 + P313

POTASSIUM BROMATE 99.8% AR

Product Code.	02072	Grade	
Purity	99.8%	CAS No.	1/2/7758
Molecular Formula	KBrO3	Molecular Weight	167.00
H.S.Code	2829.90200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 9	Melting point/ Freezing point [°C]	350 °C	Boiling point [°C]	370°C
Vapour density	5.8	Density [g/cm3]	3.27	Solubility in water [% weight]	16.7 g/l at 20 °C

Packaging

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Specification

Appearance	White crystalline powder
Assay (iodometric)	Min 99.8%
pH (5% solution in water)	5 - 9
Insoluble matter	Max 0.005%
Bromide (Br)	Max 0.02%
Total nitrogen (N)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Sodium (Na)	Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS06, GHS08

Signal Word: Danger

UN No.: 1484

IMCO Class No.: 5.1

Packing Group: II

Hazardous Statement: H271-H301-H350

Precaution Statement: P201-P220-P301 + P310-P308 + P313

POTASSIUM DICHROMATE 99.5% EXTRAPURE

Potassium bichromate

Product Code.	02094	Grade	Extrapure
Purity	99.5%	CAS No.	7778-50-9
Molecular Formula	K ₂ Cr ₂ O ₇	Molecular Weight	294.18
H.S.Code	2841.50900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Orange Crystalline	Odour	Odorless
pH value	4.04 (1% aq. solution)	Melting point/ Freezing point [°C]	398 °C	Boiling point [°C]	500°C
Density [g/cm ³]	2.676	Solubility in water [% weight]	6.5% at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	5

Specification

Appearance	Orange crystalline powder
Assay (iodometric)	Min 99.5%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.01%
Calcium (Ca)	Max 0.005%
Sodium (Na)	Max 0.2%
Loss on drying (at 105°C)	Max 0.5%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3087 IMCO Class No.: 5.1, 6.1 Packing Group: II Hazardous Statement: H317-H330-H314-H410-H334-H340-H350-H312-H372-H360FD-H301-H272-H335 Precaution Statement: P301 + P310-P280-P302 + P350-P305 + P351 + P338-P304 + P341- P221-P273

POTASSIUM DICHROMATE 99.9% AR

Potassium bichromate

Product Code.	02095	Grade	AR
Purity	99.9%	CAS No.	7778-50-9
Molecular Formula	K2Cr2O7	Molecular Weight	294.18
H.S.Code	2841.50900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Orange Crystalline	Odour	Odorless
pH value	4.04 (1% aq. solution)	Melting point/ Freezing point [°C]	398 °C	Boiling point [°C]	500°C
Density [g/cm3]	2.676	Solubility in water [% weight]	6.5% at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	5

Packaging

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Specification

Appearance	Orange crystalline powder
Assay (iodometric)	Min 99.9%
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Lead (Pb)	Max 0.005%
Calcium (Ca)	Max 0.002%
Iron (Fe)	Max 0.002%
Copper (Cu)	Max 0.001%
Sodium (Na)	Max 0.02%
Loss on drying (at 105°C)	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05, GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 3087

IMCO Class No.: 5.1, 6.1

Packing Group: II

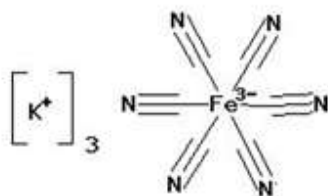
Hazardous Statement: H317-H330-H314-H410-H334-H340-H350-H312-H372-H360FD-H301-H272-H335

Precaution Statement: P301 + P310-P280-P302 + P350-P305 + P351 + P338-P304 + P341- P221-P273

POTASSIUM FERRICYANIDE 98% EXTRAPURE

Potassium hexacyanoferrate(III); Red prussiate

Product Code.	02103	Grade	Extrapure
Purity	98%	CAS No.	13746-66-2
Molecular Formula	K3Fe(CN)6	Molecular Weight	329.25
H.S.Code	2837.20200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Ruby red crystalline	Odour	Odorless
pH value	6 - 9 at 329 g/l at 25 °C	Density [g/cm3]	1.89	Solubility in water [% weight]	329 g/l at 20 °C - completely soluble

Packaging



Specification

Appearance	Ruby red crystalline powder
Assay	Min 98%
Insoluble matter	Max 0.025%

Chloride (Cl)	Max 0.05%
Sulphate (SO4)	Max 0.02%

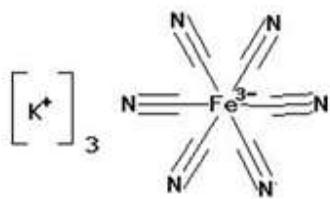
Safety Information and Hazard Symbols

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POTASSIUM FERRICYANIDE 99% AR

Potassium hexacyanoferrate(III); Red prussiate

Product Code.	02104	Grade	AR
Purity	99%	CAS No.	13746-66-2
Molecular Formula	K3(Fe(CN)6)	Molecular Weight	329.25
H.S.Code	2837.20200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Ruby red crystalline	Odour	Odorless
pH value	6 - 9 at 329 g/l at 25 °C	Density [g/cm3]	1.89	Solubility in water [% weight]	329 g/l at 20 °C - completely soluble

Packaging



Specification

Appearance	Ruby red crystalline powder
Assay (iodometric)	Min 99.0%
Insoluble matter in water	Max 0.005%

Chloride (Cl)	Max 0.01%
Hexacyanoferrate (II) [(Fe(CN)6]4-	Max 0.05%
Sulphate (SO4)	Max 0.01%

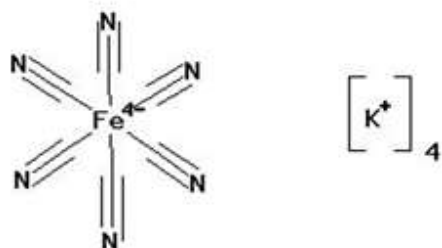
Safety Information and Hazard Symbols

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POTASSIUM FERROCYANIDE 98% EXTRAPURE

Potassium hexacyanoferrate(II) trihydrate

Product Code.	02105	Grade	
Purity	98%	CAS No.	14459-95-1
Molecular Formula	K ₄ [Fe(CN) ₆].3H ₂ O	Molecular Weight	422.39
H.S.Code	2837.20300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystalline	Odour	Odorless
pH value	8 - 10 at 211 g/l at 25 °C	Melting point/ Freezing point [°C]	70 °C	Density [g/cm3]	1.85
Solubility in water [% weight]	211 g/l at 20 °C				

Packaging



Specification

Appearance	Pale yellow crystalline powder
Assay	Min 98%
Insoluble matter in water	Max 0.025%

Chloride (Cl)	Max 0.05%
Sulphate (SO4)	Max 0.01%

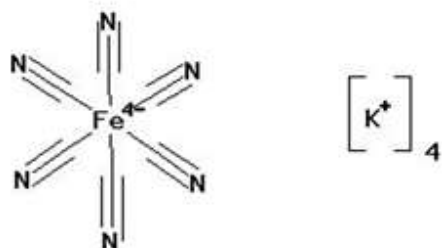
Safety Information and Hazard Symbols

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POTASSIUM FERROCYANIDE 99% AR

Reagent for iron Potassium hexacyanoferrate(II) trihydrate

Product Code.	02106	Grade	AR
Purity	98.5%	CAS No.	14459-95-1
Molecular Formula	K ₄ [Fe(CN) ₆].3H ₂ O	Molecular Weight	422.39
H.S.Code	2837.20300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystalline	Odour	Odorless
pH value	8 - 10 at 211 g/l at 25 °C	Melting point/ Freezing point [°C]	70 °C	Density [g/cm ³]	1.85
Solubility in water [% weight]	211 g/l at 20 °C				

Packaging

Specification

Appearance	Pale yellow crystalline powder
Assay (cerimetric)	98.5 - 102%
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.01%
Sulphate (SO ₄)	Max 0.01%

POTASSIUM FLUORIDE ANHYDROUS 97% EXTRAPURE

Product Code.	02107	Grade	
Purity	97%	CAS No.	7789-23-3
Molecular Formula	KF	Molecular Weight	58.10
H.S.Code	2826.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	858 °C	Boiling point [°C]	1.505 °C	Vapour pressure mm/Hg	1 mm Hg @ 8850C
Vapour density	2	Density [g/cm3]	2.48	Solubility in water [% weight]	Appreciable in water

Specification

Appearance	White crystalline powder
Assay (ion-exchange)	Min 97%
Chloride (Cl)	Max 0.02%
Sulphate (SO4)	Max 0.3%
Iron (Fe)	Max 0.02%
Sodium (Na)	Max 0.5%

Safety Information and Hazard Symbols


Symbol: GHS06 Signal Word: Danger UN No.: 1812 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H311-H331 Precaution Statement: P261-P280-P301 + P310-P311

POTASSIUM FLUORIDE ANHYDROUS 99% AR

Product Code.	02108	Grade	
Purity	99%	CAS No.	7789-23-3
Molecular Formula	KF	Molecular Weight	58.10
H.S.Code	2826.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	858 °C	Boiling point [°C]	1.505 °C	Vapour pressure mm/Hg	1 mm Hg @ 8850C
Vapour density	2	Density [g/cm3]	2.48	Solubility in water [% weight]	Appreciable in water

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99%
Insoluble matter	Max 0.005%
Acidity	Max 0.05%
Alkalinity	Max 0.05%
Chloride (Cl)	Max 0.005%
Hexafluorosilicate (SiF6)	Max 0.05%
Sulphate (SO4)	Max 0.005%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 1812

IMCO Class No.: 6.1

Packing Group: III

Hazardous Statement: H301-H311-H331

Precaution Statement: P261-P280-P301 + P310-P311

POTASSIUM FORMATE 98% EXTRAPURE

Formic acid potassium salt

Product Code.	02109	Grade	
Purity	98%	CAS No.	590-29-4
Molecular Formula	HCOOK	Molecular Weight	84.12
H.S.Code	2915.12900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	6.0 - 8.5	Melting point/ Freezing point [°C]	165 - 168 °C	Density [g/cm3]	1.91
Solubility in water [% weight]	Soluble in 100 cc of water				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 98.0%
pH (5 % solution)	6 - 8.5
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.01%

Safety Information and Hazard Symbols

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POTASSIUM FORMATE AR

Formic acid potassium salt. Formic acid potassium salt

Product Code.	02110	Grade	
Purity	99%	CAS No.	590-29-4
Molecular Formula	HCOOK	Molecular Weight	84.12
H.S.Code	2915.12900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	6.0 - 8.5	Melting point/ Freezing point [°C]	165 - 168 °C	Density [g/cm3]	1.91
Solubility in water [% weight]	Soluble in 100 cc of water				

Packaging

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Specification

Appearance	Colourless deliquescent crystals
Assay	Min 99%
Chloride (Cl)	Max 0.005%
Cobalt (Co)	Max 0.005%
Nickel (Ni)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Copper (Cu)	Max 0.005%
Lead (Pb)	Max 0.005%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.005%
Zinc (Zn)	Max 0.005%
Cadmium (Cd)	Max 0.005%
Sodium (Na)	Max 0.5%

POTASSIUM HYDROGEN CARBONATE, 99.5%, FOR BIOCHEMISTRY

Product Code.	2067A	Grade	For Biochemistry
Purity	99.5%	CAS No.	298-14-6
Molecular Formula	CHKO3	Molecular Weight	100.12
H.S.Code	2836.40000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8 - 9	Melting point/ Freezing point [°C]	100 - 120°C	Density [g/cm3]	2.17
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Crystalline powder
Titration with HClO4	99.4 to 100.6 %
Solubility	Clear colorless
Heavy metals (as Pb)	≤5 ppm
UV	(1 M in water)
Chloride (Cl)	≤0.005 %
Sulfate (SO4)	≤0.005 %
Iron (Fe)	≤0.0005 %
Sodium (Na)	≤0.02 %
Calcium (Ca)	≤0.001 %

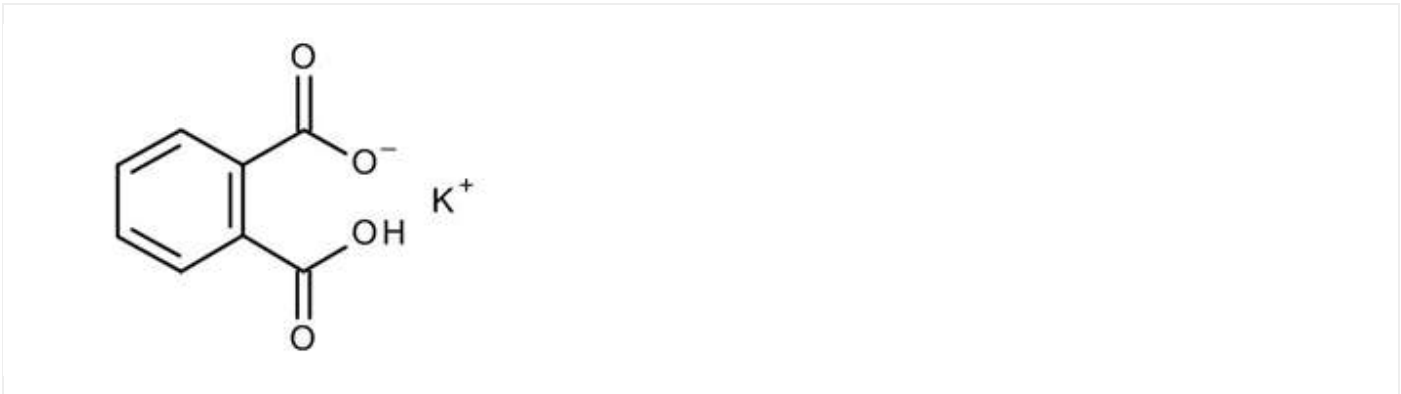
Safety Information and Hazard Symbols

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POTASSIUM HYDROGEN PHTHALATE 99.5% AR

KHP; Phthalic acid monopotassium salt, Potassium biphthalate; Potassium phthalate monobasic

Product Code.	02112	Grade	AR
Purity	99.5%	CAS No.	877-24-7
Molecular Formula	C8H5KO4	Molecular Weight	204.22
H.S.Code	2917.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3.8 - 4.0 (5% aq. sol.)	Melting point/ Freezing point [°C]	295 - 300 °C	Density [g/cm3]	1.64
Solubility in water [% weight]	80 g/L @ 20°C				

Packaging

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Specification

Appearance	White crystalline powder
Assay (on anhydrous basis)	Min 99.5%
Insoluble matter	Max 0.005%
Loss on dryig (at 110°C)	Max 0.2%
Chloride (Cl)	Max 0.002%
Phthalic acid	Max 0.005%

Sulphate (SO4)	Max 0.005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Sodium (Na)	Max 0.01%

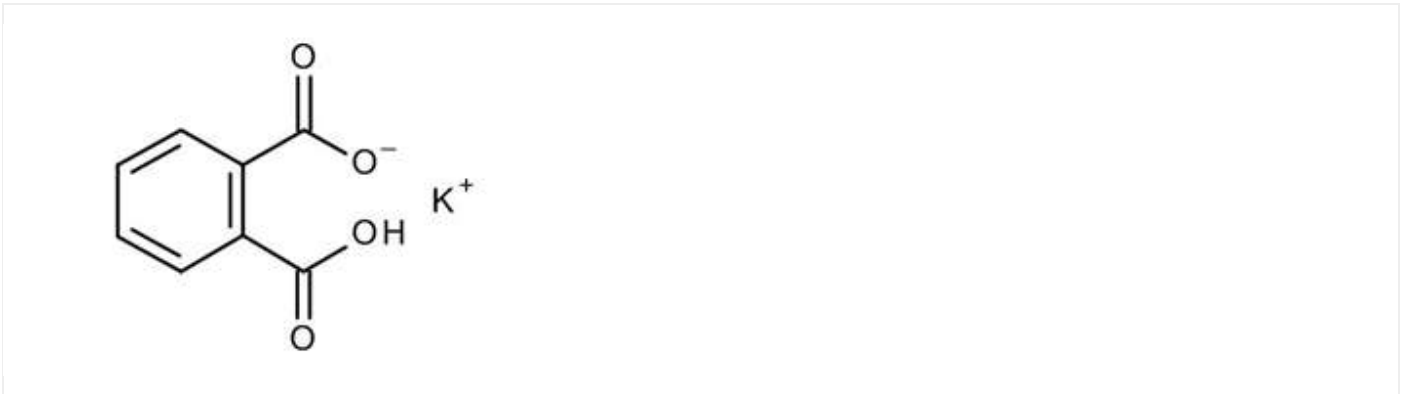
Safety Information and Hazard Symbols

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POTASSIUM HYDROGEN PHTHALATE 99.5% EXTRAPURE

KHP; Phthalic acid monopotassium salt, Potassium biphthalate; Potassium phthalate monobasic

Product Code.	02111	Grade	Extrapure
Purity	99.5%	CAS No.	877-24-7
Molecular Formula	C8H5KO4	Molecular Weight	204.22
H.S.Code	2917.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3.8 - 4.0 (5% aq. sol.)	Melting point/ Freezing point [°C]	295 - 300 °C	Density [g/cm3]	1.64
Solubility in water [% weight]	80 g/L @ 20°C				

Packaging

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Specification

Appearance	White crystalline powder
Assay (on anhydrous basis)	Min 99.5%
Chloride (Cl)	Max 0.002%
Sulphate (SO4)	Max 0.02%

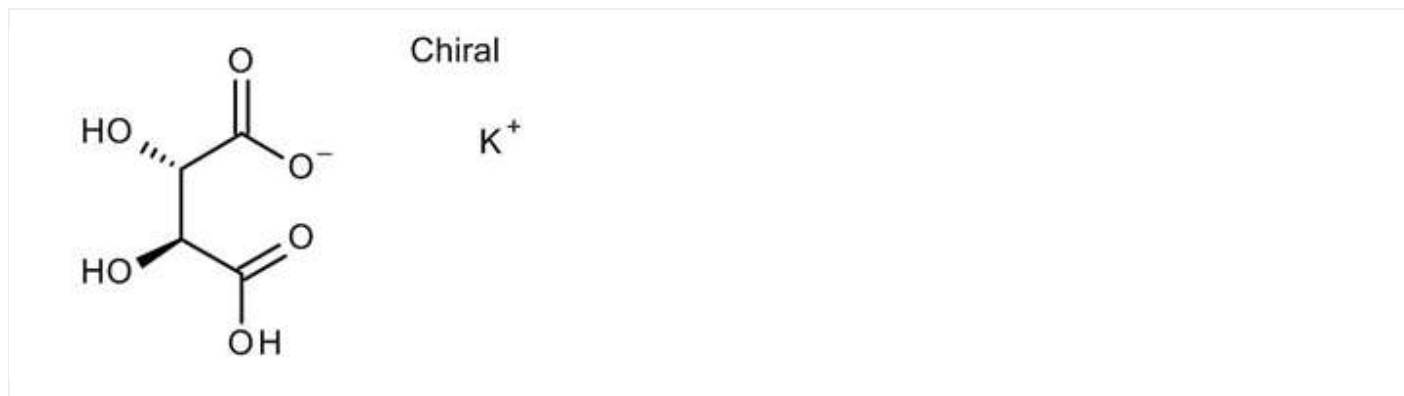
Safety Information and Hazard Symbols

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POTASSIUM HYDROGEN TARTRATE 99.5% EXTRAPURE

Conforms to BP Potassium L-tartrate monobasic; L-(+)-Tartaric acid monopotassium salt; Potassium hydrogen L-tartrate ; (cream of tartar) (potassium hydrogen (+) tartrate

Product Code.	02070	Grade	
Purity	99.5%	CAS No.	868-14-4
Molecular Formula	C4H5KO6	Molecular Weight	188.18
H.S.Code	2918.13100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	3.4 - 3.7 at 20 °C	Melting point/ Freezing point [°C]	> 250 °C	Density [g/cm3]	1.954
Solubility in water [% weight]	Slightly soluble in water				

Packaging

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Specification

Appearance	White or almost white, crystalline powder or colourless crystals
Assay (acidimetric; on anhydrous basis)	99.5-100.5%
Solubility	Passes test
Identification	Passes test
Specific optical rotation ([α] _D ²⁰)	+ 8.0 to + 9.2
Oxalic acid	Max. 0.05%

Chloride (Cl)	Max. 0.05%
Sulphate (SO4)	Max. 0.05%
Barium (Ba)	Passes test
Heavy metal (as Pb)	Max. 0.001%
Loss on drying (at 105°C)	Max. 0.5%

Safety Information and Hazard Symbols

POTASSIUM METABISULPHITE 95% EXTRAPURE

Potassium pyrosulfite; Dipotassium disulfite

Product Code.	02138	Grade	
Purity	95%	CAS No.	16731-55-8
Molecular Formula	K2S2O5	Molecular Weight	222.31
H.S.Code	2832.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3-4.5 at 22.2 g/l at 25 °C	Melting point/ Freezing point [°C]	150°C	Decomposition point [°C]	150°C
Vapour density	2.3	Density [g/cm3]	2.34	Solubility in water [% weight]	22.2 g/l at 20 °C

Packaging

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Specification

Appearance	White crystalline powder
Assay (iodometric)	95 - 99.9%
Iodometric,SO2	54.8 - 57.6%
Appearance of solution	Passes test
pH (5% solution in water)	3 - 4.5
Chloride (Cl)	Max 0.05%
Heavy metal (as Pb)	Max 0.001%
Thiosulphate	Passes test
Copper (Cu)	Max 0.0025%
Zinc (Zn)	Max 0.0025%
Iron (Fe)	Max 0.002%
Selenium (Se)	Max 0.0005%

Arsenic (As)	Max 0.0002%
Mercury (Hg)	Max 0.0001%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

POTASSIUM METABISULPHITE 96% AR
Potassium pyrosulfite; Dipotassium disulfite

Product Code.	02139	Grade	
Purity	96%	CAS No.	16731-55-8
Molecular Formula	K2S2O5	Molecular Weight	222.31
H.S.Code	2832.20100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3-4.5 at 22.2 g/l at 25 °C	Melting point/ Freezing point [°C]	150°C	Decomposition point [°C]	150°C
Vapour density	2.3	Density [g/cm3]	2.34	Solubility in water [% weight]	22.2 g/l at 20 °C

Specification

Appearance	White crystalline powder
Assay	Min 96%
Insoluble matter in water	Max 0.005%
Chloride (Cl)	Max 0.005%
Copper (Cu)	Max 0.005%
Lead (Pb)	Max 0.005%
Iron (Fe)	Max 0.005%
Zinc (Zn)	Max 0.005%
Cadmium (Cd)	Max 0.005%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

POTASSIUM METAPERIODATE 99.5% AR

Reagent for periodate oxidimetry, Lithium and Manganese. Periodic acid potassium salt; Potassium periodate

Product Code.	02141	Grade	AR
Purity	99.5%	CAS No.	7790-21-8
Molecular Formula	KIO4	Molecular Weight	230.00
H.S.Code	2829.90300	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless Crystals	Odour	Odorless
pH value	4.5 - 5.5	Melting point/ Freezing point [°C]	582 °C	Vapour density	7.9
Density [g/cm3]	3.62	Solubility in water [% weight]	0.42 g per 100 g of water	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2

Packaging

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Specification

Appearance	Colorless crystals or white crystalline powder
Assay (as KIO4)	Min 99.5%
Insoluble matter in water	Max 0.005%
Chloride, chlorate and bromide, bromate (as Cl)	Max 0.01%
Iodide (I)	Max 0.001%
Sulphate (SO4)	Max 0.01%
Manganese (Mn)	Max 0.0001%
Loss on drying (at 105°C)	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07

Signal Word: Danger

UN No.: 1479

IMCO Class No.: 5.1

Packing Group: II

Hazardous Statement: H272-H315-H319-H335

Precaution Statement: P220-P261-P305 + P351 + P338

POTASSIUM METAPERIODATE 99% EXTRAPURE

potassium periodate (metal)

Product Code.	02140	Grade	
Purity	99%	CAS No.	7790-21-8
Molecular Formula	KIO ₄	Molecular Weight	230.00
H.S.Code	2829.90300	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless Crystals	Odour	Odorless
pH value	4.5 - 5.5	Melting point/ Freezing point [°C]	582 °C	Vapour density	7.9
Density [g/cm ³]	3.62	Solubility in water [% weight]	0.42 g per 100 g of water	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2

Specification

Appearance	Colourless crystal or white crystalline powder
Assay (iodometric)	Min 99%
Insoluble matter in water	Max 0.05%
Bromate, bromide, chlorate and chloride (as Cl)	Max 0.05%
Iodide (I)	Max 0.005%
Sulphate (SO ₄)	Max 0.03%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07 Signal Word: Danger UN No.: 1479 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H315-H319-H335 Precaution Statement: P220-P261-P305 + P351 + P338

POTASSIUM METAVANADATE 98% EXTRAPURE

Potassium vanadate; Potassium vanadium trioxide

Product Code.	02142	Grade	
Purity	98%	CAS No.	13769-43-2
Molecular Formula	KVO3	Molecular Weight	138.04
H.S.Code	2917.11900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White	Melting point/ Freezing point [°C]	520 °C
Density [g/cm3]	2.84				

Packaging

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Specification

Appearance	White to light yellow powder
Assay	Min 98%
Melting point	About 520°C

Safety Information and Hazard Symbols


Symbol: GHS06 Signal Word: Danger UN No.: 2864 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H300-H310-H315-H319-H330-H335 Precaution Statement: P260-P264-P280-P284-P302 + P350-P305 + P351 + P338

POTASSIUM NITRITE CRYST. 96% AR

Product Code.	02147	Grade	AR
Purity	96%	CAS No.	7758-09-0
Molecular Formula	KNO2	Molecular Weight	85.11
H.S.Code	2834.21000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystals	Odour	Odorless
pH value	7 - 10	Melting point/ Freezing point [°C]	350 °C	Vapour density	2.9
Density [g/cm3]	1.915	Solubility in water [% weight]	300g in 100g of 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 hygroscopic crystalline powder
Assay (oxidimetric)	Min 96.0%
Insoluble matter (20 g /200 ml, water)	Max 0.01%
Chloride (Cl)	Max 0.03%
Sulphate (SO4)	Max 0.01%
Heavy metal (as Pb)	Max 0.001%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.001%
Magnesium (Mg)	Max 0.002%
Sodium (Na)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS06, GHS09

Signal Word: Danger

UN No.: 1488

IMCO Class No.: 5.1

Packing Group: II

Hazardous Statement: H272-H301-H400

Precaution Statement: P220-P273-P301 + P310

POTASSIUM NITRITE EXTRA PURE

Product Code.	02146	Grade	
Purity	95%	CAS No.	7758-09-0
Molecular Formula	KNO2	Molecular Weight	85.11
H.S.Code	2834.21000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystals	Odour	Odorless
pH value	7 - 10	Melting point/ Freezing point [°C]	350 °C	Vapour density	2.9
Density [g/cm3]	1.915	Solubility in water [% weight]	300g in 100g of water	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2

Packaging

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Specification

Appearance	Hygroscopic crystalline powder with pale yellow tint
Assay (oxidimetric)	Min 95.0%
Insoluble matter in water	Max 0.05%
Loss on drying	Max 1.0%
Chloride (Cl)	Max 0.03%
Sulphate (SO4)	Max 0.01%
Heavy metal (as Pb)	Max 0.005%
Calcium (Ca)	Max 0.05%
Iron (Fe)	Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS06, GHS09

Signal Word: Danger

UN No.: 1488

IMCO Class No.: 5.1

Packing Group: II

Hazardous Statement: H272-H301-H400

Precaution Statement: P220-P273-P301 + P310

POTASSIUM PERCHLORATE 99.5% AR

Potassium chlorate (VII); Perchloric acid potassium salt; peroidin

Product Code.	02150	Grade	
Purity	99.5%	CAS No.	7778-74-7
Molecular Formula	KClO4	Molecular Weight	138.55
H.S.Code	2829.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5.0 - 6.5	Melting point/ Freezing point [°C]	400 °C	Boiling point [°C]	400°C
Vapour density	4.8	Density [g/cm3]	2.52	Solubility in water [% weight]	13.9 g/l at 20 °C

Packaging

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Specification

Appearance	White crystalline powder
Assay (argentometric)	99.5 - 100.5%
Insoluble matter	Max 0.005%
pH (1% solution in water)	5 - 7
Chloride (Cl)	Max 0.003%
Sulphate (SO4)	Max 0.001%
Total nitrogen (N)	Max 0.0005%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Calcium (Ca)	Max 0.005%
Sodium (Na)	Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07

Signal Word: Danger

UN No.: 1489

IMCO Class No.: 5.1

Packing Group: II

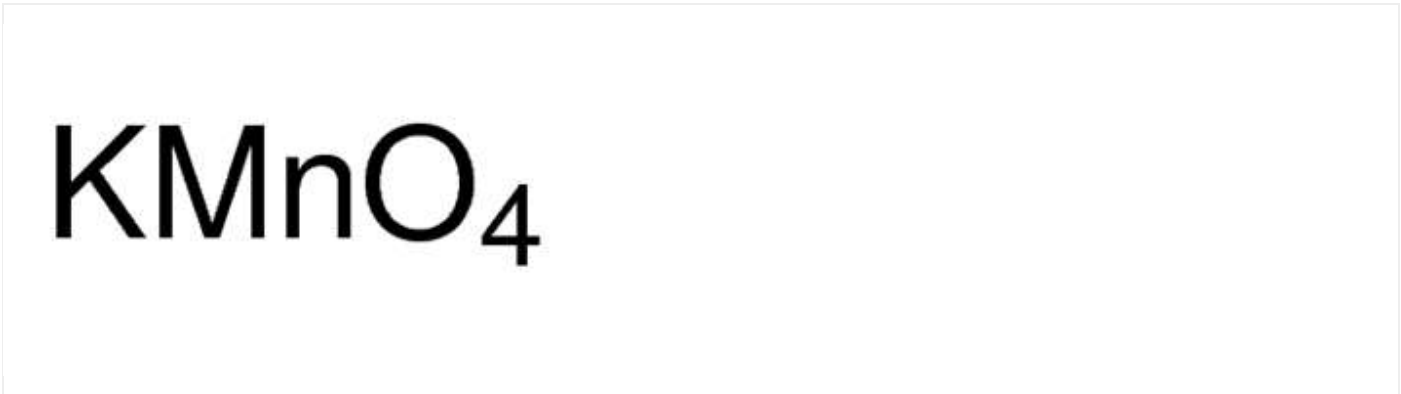
Hazardous Statement: H271-H302

Precaution Statement: P220

POTASSIUM PERMANGANATE 99% EXTRAPURE

Potassium manganate(VII), Permanganate of potash

Product Code.	02151	Grade	
Purity	99%	CAS No.	7722-64-7
Molecular Formula	KMnO4	Molecular Weight	158.03
H.S.Code	2841.61000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Blackish Crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	240 °C	Vapour density	5.4	Density [g/cm3]	2.7
Solubility in water [% weight]	7 g in 100 g of water				

Packaging

Specification

Appearance	Blackish crystalline powder with metallic lustre
Assay	Min 99%
Insoluble matter	Max 0.5%
Chloride (Cl)	Max 0.02%
Nitrate (NO3)	Max 0.2%
Sulphate (SO4)	Max 0.05%

Sodium (Na)

Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07, GHS09

Signal Word: Danger

UN No.: 1490

IMCO Class No.: 5.1

Packing Group: II

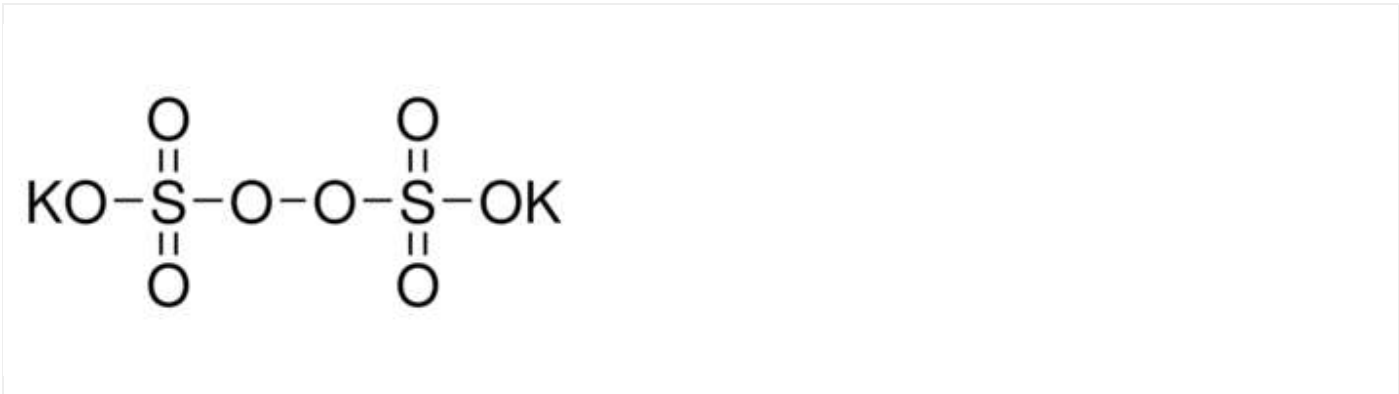
Hazardous Statement: H272-H302-H410

Precaution Statement: P220-P273-P501

POTASSIUM PERSULPHATE 98% AR

Potassium peroxodisulfate

Product Code.	02159	Grade	AR
Purity	98%	CAS No.	7727-21-1
Molecular Formula	K2S2O8	Molecular Weight	270.31
H.S.Code	2833.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	2.5 - 4.5	Melting point/ Freezing point [°C]	100 °C	Vapour density	9.3
Density [g/cm3]	2.48	Solubility in water [% weight]	27 g/l at 20 °C - completely soluble		

Packaging

Specification

Appearance	A white powder
Assay	Min 98%
Insoluble matter	Max 0.003%
Chloride (Cl)	Max 0.002%
Ammonium (NH4)	Max 0.0005%
Arsenic (As)	Max 0.00004%

Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.001%
Manganese (Mn)	Max 0.0001%

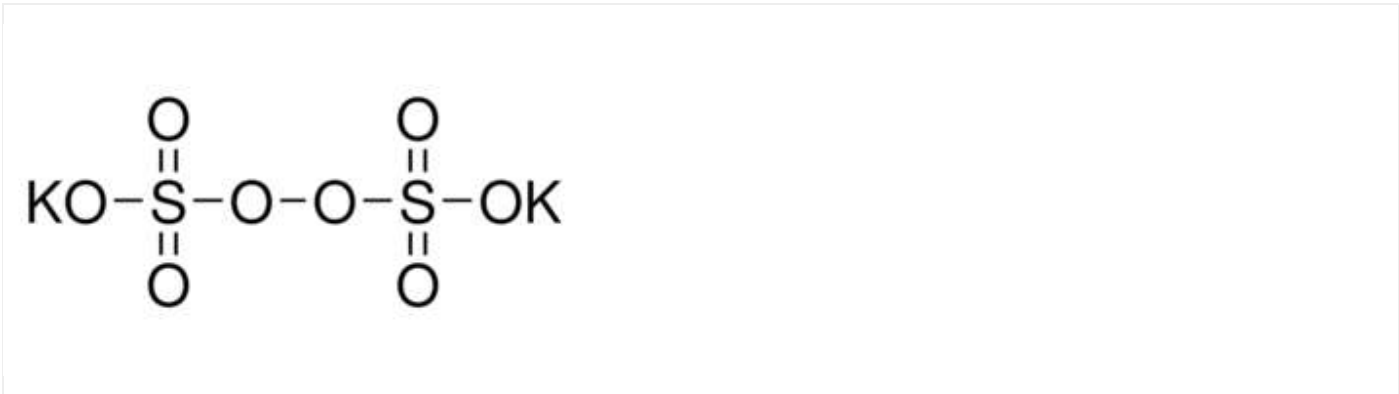
Safety Information and Hazard Symbols


Symbol: GHS03, GHS07, GHS08 Signal Word: Danger UN No.: 1492 IMCO Class No.: 5.1 Packing Group: III Hazardous Statement: H272-H302-H315-H317-H319-H334-H335 Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

POTASSIUM PERSULPHATE 98% EXTRAPURE

Potassium peroxodisulfate

Product Code.	02158	Grade	Extrapure
Purity	98%	CAS No.	7727-21-1
Molecular Formula	K2S2O8	Molecular Weight	270.31
H.S.Code	2833.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	2.5 - 4.5	Melting point/ Freezing point [°C]	100 °C	Vapour density	9.3
Density [g/cm3]	2.48	Solubility in water [% weight]	27 g/l at 20 °C - completely soluble		

Packaging

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Specification

Appearance	A white powder
Assay (iodometric)	Min 98.0%
Chloride (Cl)	Max 0.005%
Heavy metal (as Pb)	Max 0.005%
Iron (Fe)	Max 0.002%
Manganese (Mn)	Max 0.0005%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07, GHS08

Signal Word: Danger

UN No.: 1492

IMCO Class No.: 5.1

Packing Group: III

Hazardous Statement: H272-H302-H315-H317-H319-H334-H335

Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

POTASSIUM PYROANTIMONATE 99% AR

Potassium hexahydroxoantimonate(V); Potassium antimonate

Product Code.	02168	Grade	AR
Purity	99%	CAS No.	12208-13-8
Molecular Formula	KSb(OH)6	Molecular Weight	262.89
H.S.Code	2841.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Solubility in water [% weight]	Slightly Soluble
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Packaging

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Specification

Appearance	White powder
Assay (on ignited basis)	Min 99%
Minimum sensitivity to sodium (Na)	1:430
Insoluble matter	Max 0.01%

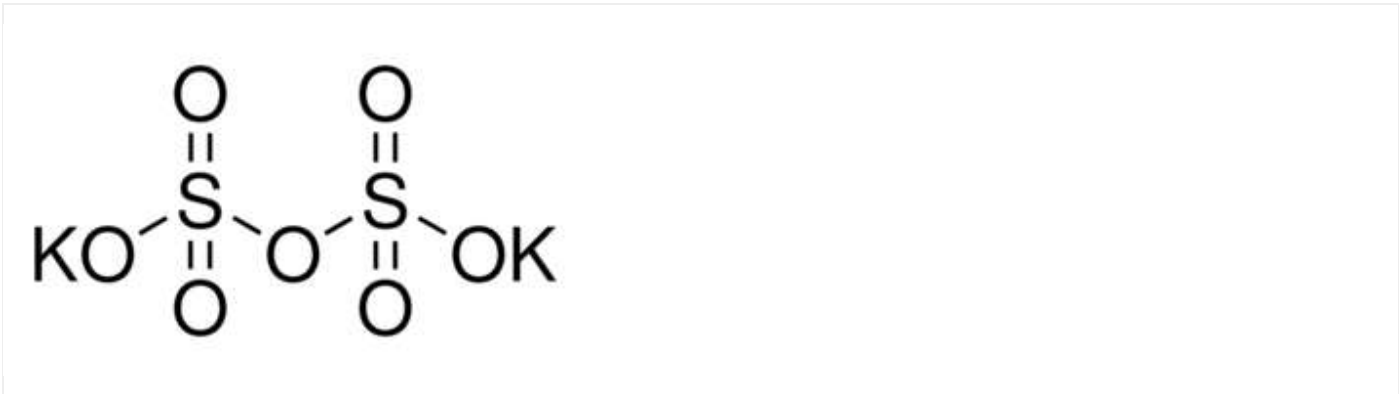
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 1549 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H302-H332-H411 Precaution Statement: P273

POTASSIUM PYROSULPHATE 97% EXTRAPURE

Potassium disulphate

Product Code.	02172	Grade	
Purity	97%	CAS No.	7790-62-7
Molecular Formula	K2S2O7	Molecular Weight	254.33
H.S.Code	2833.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white flakes	Odour	Odorless
pH value	1 - 2 at 25.5 g/l at 25 °C	Melting point/ Freezing point [°C]	325 °C	Density [g/cm3]	2.28
Solubility in water [% weight]	25.4 g/l at 20 °C				

Packaging

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Specification

Appearance	Off-white flakes/crystals
Assay (acidimetric)	Min 97%
Chloride (Cl)	Max 0.003%
Iron (Fe)	Max 0.002%
Lead (Pb)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3260

IMCO Class No.: 8

Packing Group: II

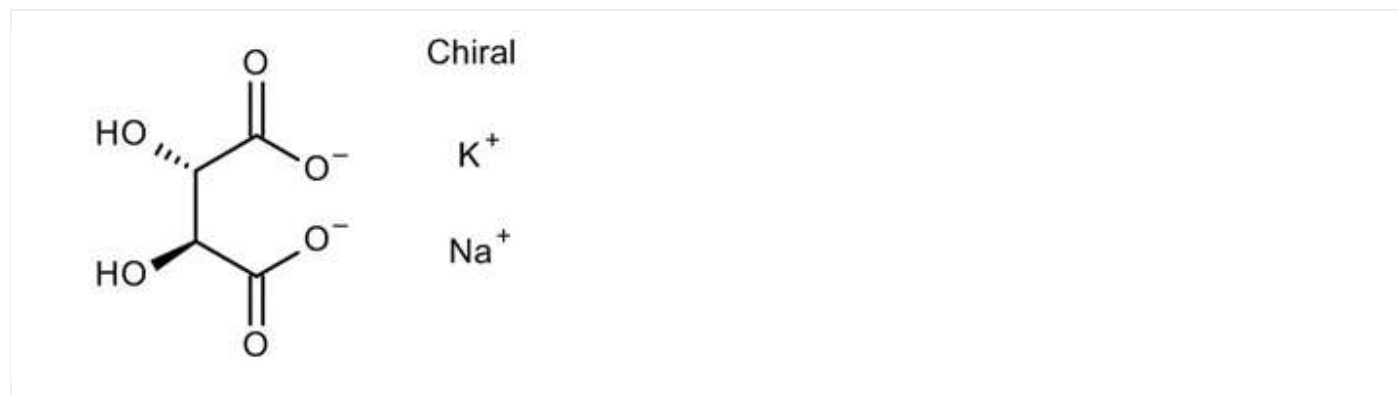
Hazardous Statement: H314

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

POTASSIUM SODIUM TARTRATE TETRAHYDRATE 98% EXTRAPURE

Rochelle salt

Product Code.	02175	Grade	Extrapure
Purity	98%	CAS No.	6381-59-5
Molecular Formula	C ₄ H ₄ KNaO ₆ ·4H ₂ O	Molecular Weight	282.22
H.S.Code	2918.13900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Odorless
pH value	7.0 - 8.5	Melting point/ Freezing point [°C]	70°C	Boiling point [°C]	220°C
Density [g/cm ³]	1.79	Solubility in water [% weight]	Soluble in water		

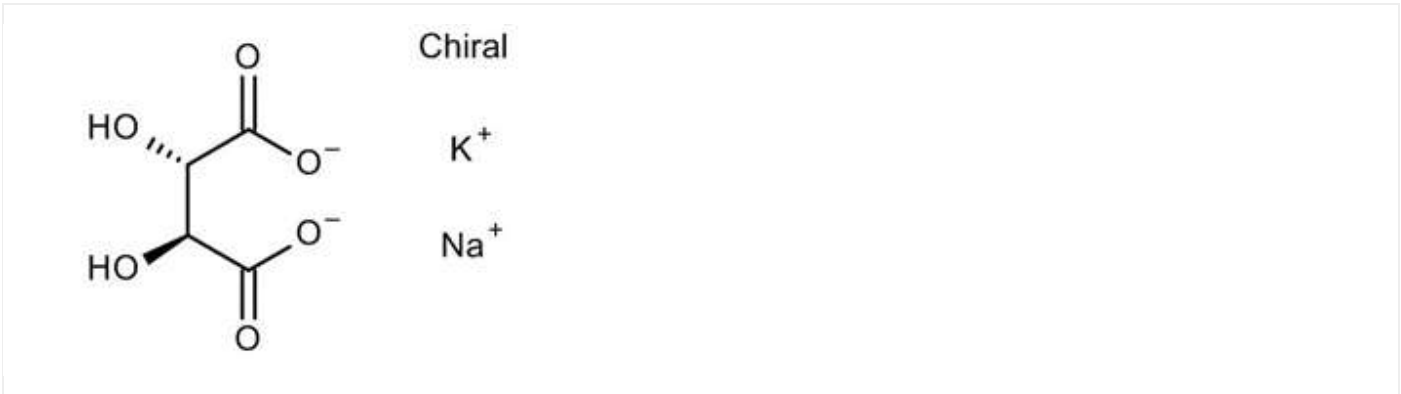
Specification

Appearance	Colorless crystalline powder
Assay	Min 98.0%
Acidity or alkalinity	Max 1 ml N%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.05%

POTASSIUM SODIUM TARTRATE TETRAHYDRATE 99% AR

Rochelle salt

Product Code.	02176	Grade	
Purity	99%	CAS No.	6381-59-5
Molecular Formula	C4H4KNaO6.4H2O	Molecular Weight	282.22
H.S.Code	2918.13900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Odorless
pH value	7.0 - 8.5	Melting point/ Freezing point [°C]	70°C	Boiling point [°C]	220°C
Density [g/cm3]	1.79	Solubility in water [% weight]	Soluble in water		

Packaging

Specification

Appearance	Colorless crystalline powder
Assay	99 - 102%
Insoluble matter	Max 0.005%
pH (5% solution in water; 20°C)	7 - 8.5
Chloride (Cl)	Max 0.0005%
Sulphate (SO4)	Max 0.005%

Phosphate (PO4)	Max 0.001%
Ammonium (NH4)	Max 0.002%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Copper (Cu)	Max 0.0005%
Calcium (Ca)	Max 0.004%

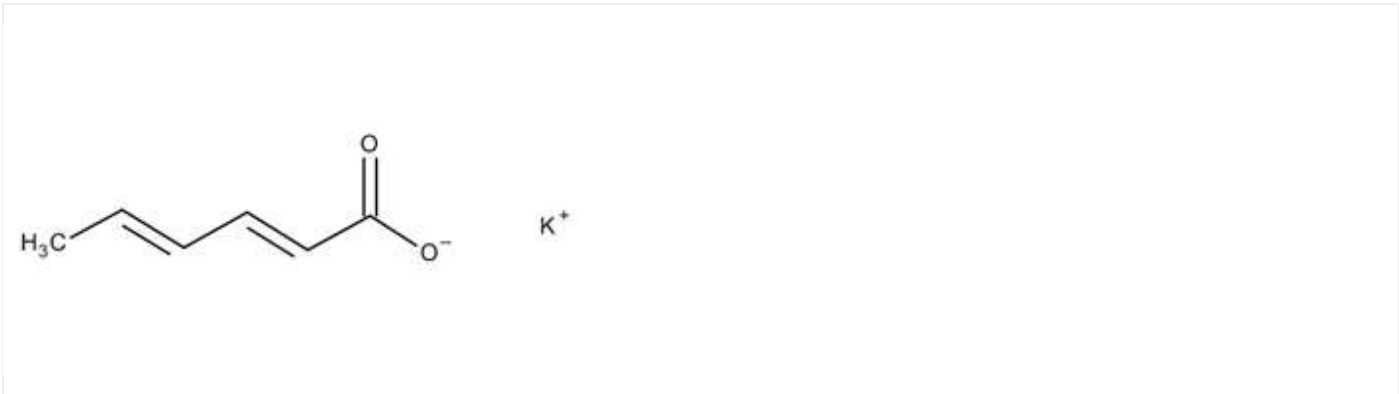
Safety Information and Hazard Symbols

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POTASSIUM SORBATE 99% EXTRAPURE

Confirms to BP, USP Sorbistat-K, Sorbistat potassium, Potassium (2E,4E)-hexa-2,4-dienoate

Product Code.	02177	Grade	Extrapure
Purity	99%	CAS No.	24634-61-5
Molecular Formula	C6H7KO2	Molecular Weight	150.22
H.S.Code	2916.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white	Odour	Odorless
pH value	8 - 11 at 580 g/l at 20 °C	Melting point/ Freezing point [°C]	210 °C	Density [g/cm3]	1.36
Solubility in water [% weight]	1.400 g/l at 20 °C - slightly soluble				

Packaging

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Specification

Appearance	Off white noodle shaped granules
Assay	99.0 - 101.0%
Identity	Passes test
Appearance of solution	Passes test
Loss on drying (at 105°C)	Max 1%
Acidity or alkalinity	Passes test

Aldehyde (as CH ₃ CHO)	Max 0.15%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0002%

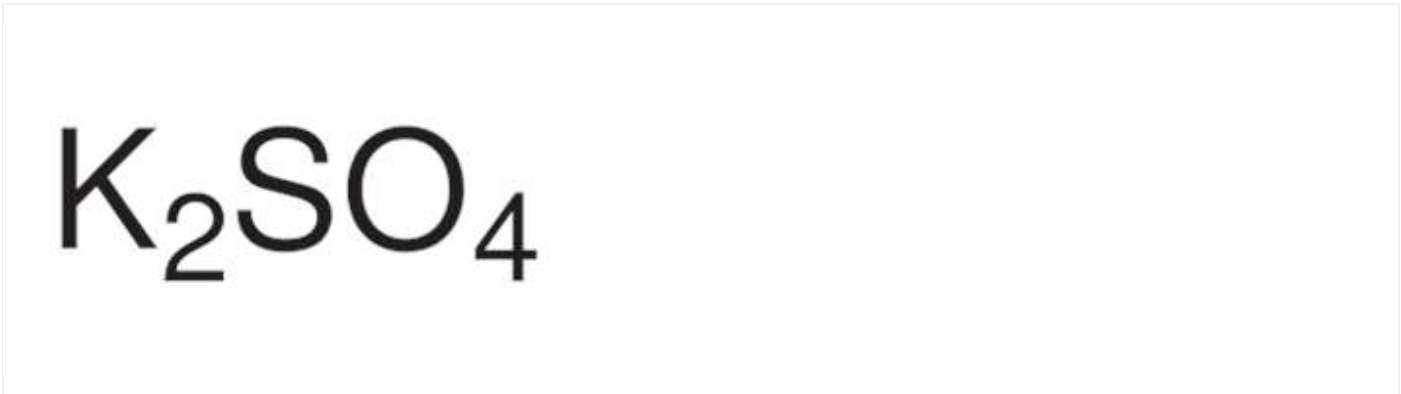
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

POTASSIUM SULPHATE 98.5% EXTRAPURE

Confirms to BP sulphate of potash, arcanite

Product Code.	02178	Grade	
Purity	98.5%	CAS No.	7778-80-5
Molecular Formula	K2SO4	Molecular Weight	174.27
H.S.Code	3104.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	~7	Melting point/ Freezing point [°C]	1067°C	Boiling point [°C]	1689°C
Density [g/cm3]	2.662	Solubility in water [% weight]	110 g/l (20°C)		

Packaging

Specification

Appearance	White crystalline powder
Assay (acidimetric)	98.5 - 101.0%
pH (5% solution)	5.5 - 8.5
Identity	Passes test
Appearance of solution	Passes test
Acidity or alkalinity	Passes test
Chloride (Cl)	Max 0.004%

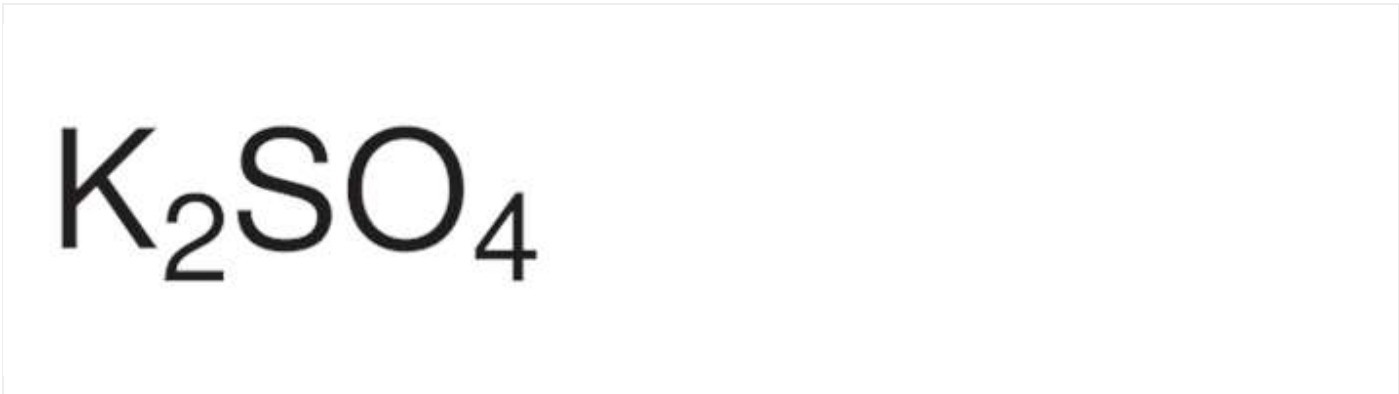
Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.001%
Magnesium (Mg)	Max 0.002%
Calcium (Ca)	Max 0.02%
Sodium (Na)	Max 0.1%
Loss on drying (at 105°C)	Max 1.0%

Safety Information and Hazard Symbols

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POTASSIUM SULPHATE 99% AR

Product Code.	02179	Grade	AR
Purity	99%	CAS No.	7778-80-5
Molecular Formula	K2SO4	Molecular Weight	174.27
H.S.Code	3104.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	~7	Melting point/ Freezing point [°C]	1067°C	Boiling point [°C]	1689°C
Density [g/cm3]	2.662	Solubility in water [% weight]	110 g/l (20°C)		

Packaging

Specification

Appearance	White crystalline powder
Assay (Titration after Ion exchange)	99.0-101.0%
Insoluble matter (6.67% in water)	Max 0.01%
pH (5% solution in water)	5.5 - 8.5
Chloride (Cl)	Max 0.001%
Total nitrogen (N)	Max 0.0005%
Heavy metal (as Pb)	Max 0.0005%

Iron (Fe)	Max 0.0005%
Calcium (Ca)	Max 0.01%
Magnesium (Mg)	Max 0.002%
Sodium (Na)	Max 0.02%

Safety Information and Hazard Symbols

Potassium rhodanide

Product Code.	02184	Grade	AR
Purity	98.5%	CAS No.	333-20-0
Molecular Formula	KSCN	Molecular Weight	97.18
H.S.Code	2842.90900	Shelf Life	60 Months



Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	5.3 - 8.7 at 97.2 g/l at 25 °C	Melting point/ Freezing point [°C]	173 °C	Density [g/cm3]	1.89
Solubility in water [% weight]	97.2 g/l at 20 °C				

Appearance	Colorless to white deliquescent crystals
Assay (argentometric)	Min 98.5%
Substance insoluble in water	Max 0.005%
pH (5% solution in water)	5.3 - 8.5
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%

Ammonium (NH4)	Max 0.003%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0002%
Sodium (Na)	Max 0.005%
Iodine consuming substances	Passes ACS test

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H312-H332-H412 Precaution Statement: P273-P280

Potassium rhodanide ; potassium sulphocyanide

Product Code.	02183	Grade	Extrapure
Purity	98%	CAS No.	333-20-0
Molecular Formula	KSCN	Molecular Weight	97.18
H.S.Code	2842.90900	Shelf Life	60 Months



Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	5.3 - 8.7 at 97.2 g/l at 25 °C	Melting point/ Freezing point [°C]	173 °C	Density [g/cm3]	1.89
Solubility in water [% weight]	97.2 g/l at 20 °C				

Appearance	Colorless to white deliquescent crystals
Assay (argentometric)	Min 98.0%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.05%
Sulphide (S)	Max 0.002%
Heavy metal (as Pb)	Max 0.001%

Ammonium (NH ₄)	Max 0.05%
Iron (Fe)	Max 0.005%

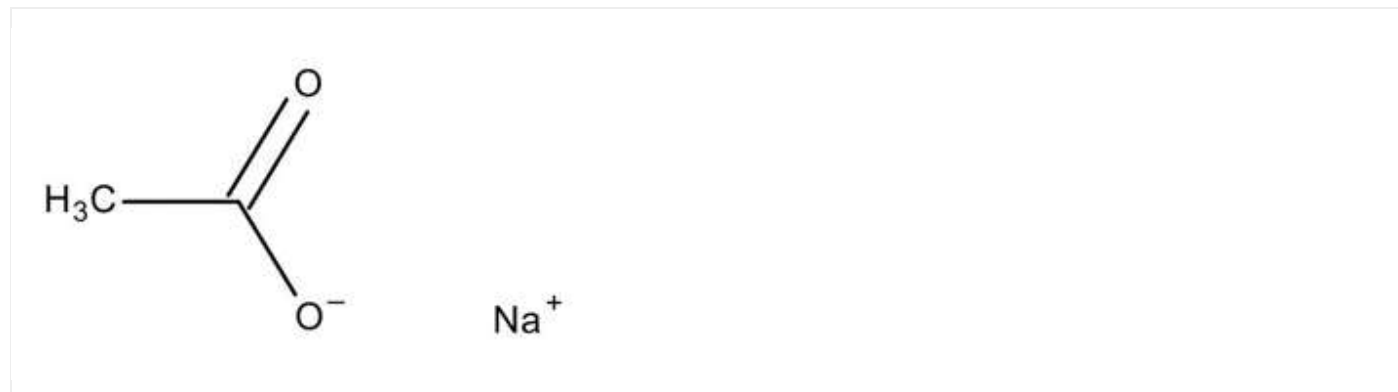
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H312-H332-H412 Precaution Statement: P273-P280

SODIUM ACETATE ANHYDROUS 99% AR

Acetic acid sodium salt

Product Code.	02344	Grade	
Purity	99%	CAS No.	127-09-3
Molecular Formula	CH ₃ .COONa	Molecular Weight	82.03
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White coarse	Odour	Slight acetic acid
pH value	8.5 - 9.9 at 246 g/l at 25 °C	Melting point/ Freezing point [°C]	> 300 °C	Auto-ignition temperature [°C]	600 °C
Flash point [°C]	> 250 °C	Density [g/cm ³]	1.528	Solubility in water [% weight]	246 g/l at 20 °C - completely soluble
Partition coefficient Log Pow octanol / water at 20°C	-4.22				

Packaging

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Specification

Appearance	White crystalline powder.
Assay	Min 99%
pH (5% solution in water)	7.5 - 9.0

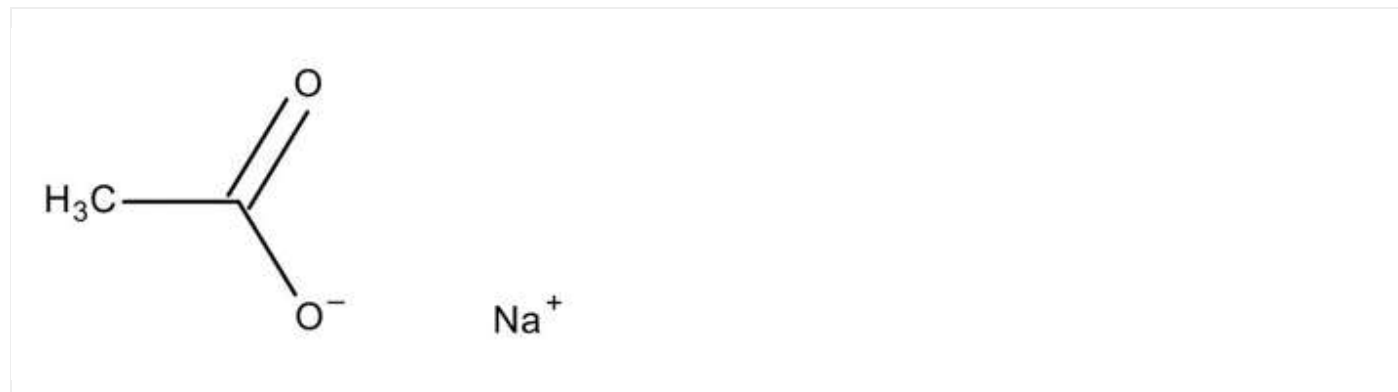
Insoluble matter	Max 0.01%
Chloride (Cl)	Max 0.002%
Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.003%
Aluminium (Al)	Max 0.001%
Calcium (Ca)	Max 0.005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Heavy metals (by ICP-OES)	Max 0.001%
Magnesium (Mg)	Max 0.002%
Potassium (K)	Max 0.05%
Loss on drying	Max 1.0%

Safety Information and Hazard Symbols

SODIUM ACETATE ANHYDROUS 99% EXTRAPURE

Confirms to USP Acetic acid sodium salt

Product Code.	02343	Grade	
Purity	98%	CAS No.	127-09-3
Molecular Formula	CH ₃ .COONa	Molecular Weight	82.03
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White coarse	Odour	Slight acetic acid
pH value	8.5 - 9.9 at 246 g/l at 25 °C	Melting point/ Freezing point [°C]	> 300 °C	Auto-ignition temperature [°C]	600 °C
Flash point [°C]	> 250 °C	Density [g/cm ³]	1.528	Solubility in water [% weight]	246 g/l at 20 °C - completely soluble
Partition coefficient Log Pow octanol / water at 20°C	-4.22				

Packaging

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Specification

Appearance	White crystalline powder
Assay	98 - 101%
pH (5% solution in water)	7.5 - 9.2

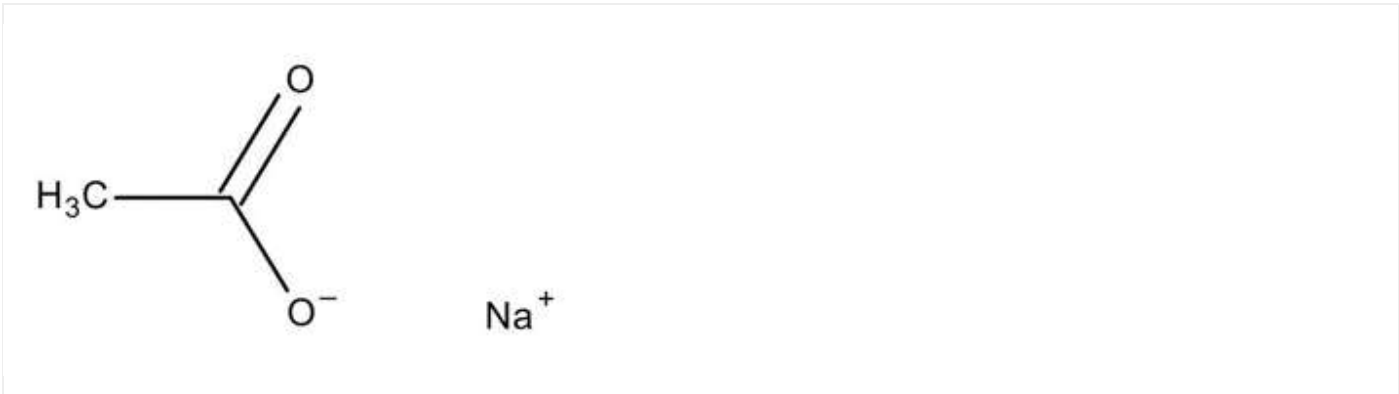
Insoluble matter in water	Max 0.05%
Loss on drying (at 105°C)	Max 1%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.005%
Calcium & magnesium (as Ca)	Passes test
Potassium (K)	Passes test
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%

Safety Information and Hazard Symbols

SODIUM ACETATE TRIHYDRATE 99.5% AR

Acetic acid sodium salt trihydrate

Product Code.	02348	Grade	AR
Purity	99.5%	CAS No.	6131-90-4
Molecular Formula	CH3COONa.3H2O	Molecular Weight	136.08
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight acetic acid
pH value	8.5 - 10 at 408 g/l at 25 °C	Melting point/ Freezing point [°C]	58°C	Auto-ignition temperature [°C]	600 °C
Density [g/cm3]	1.45	Solubility in water [% weight]	408 g/l at 20 °C - completely soluble		

Packaging

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Specification

Appearance	White crystalline powder
Assay	99.5 - 101.0%
pH (5% solution in water)	7.5 - 9.2
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.003%

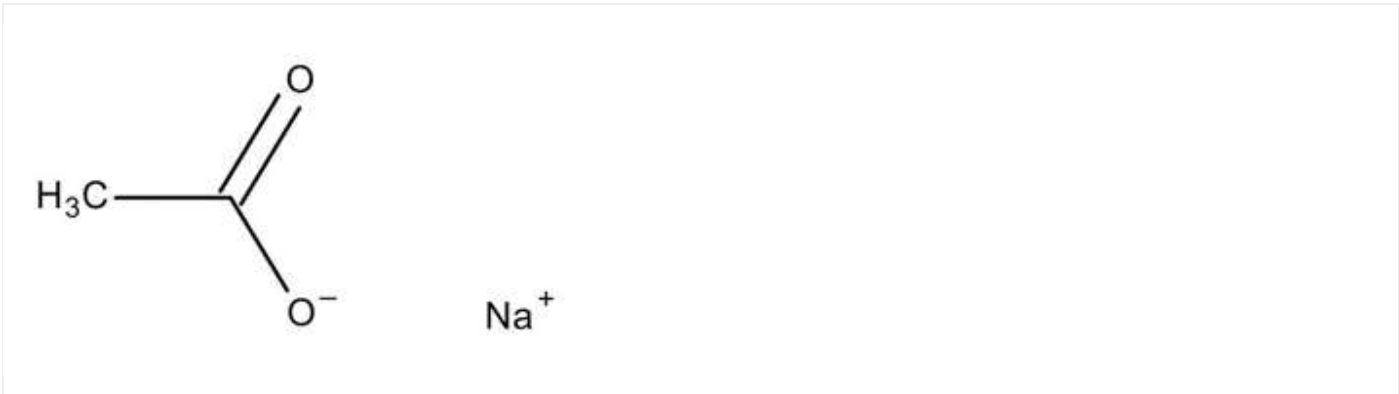
Nitrogen compounds (as N)	Max 0.001%
Phosphate (PO4)	Max 0.0005%
Sulphate (SO4)	Max 0.002%
Calcium (Ca)	Max 0.001%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Magnesium (Mg)	Max 0.002%
Potassium (K)	Max 0.005%
Substance reducing KMnO4 (as O)	Passes test

Safety Information and Hazard Symbols

SODIUM ACETATE TRIHYDRATE 99% EXTRAPURE

Confirming to BP, USP Sodium acetate, Sodium ethanoate

Product Code.	02347	Grade	
Purity	99%	CAS No.	6131-90-4
Molecular Formula	CH3COONa.3H2O	Molecular Weight	136.08
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colourless crystals /White crystalline	Odour	Slight acetic acid
pH value	8.5 - 10 at 408 g/l at 25 °C	Melting point/ Freezing point [°C]	58°C	Auto-ignition temperature [°C]	600 °C
Density [g/cm3]	1.45	Solubility in water [% weight]	408 g/l at 20 °C - completely soluble		

Packaging

Specification

Appearance	Colourless crystals /White crystalline powder
Assay	99 - 101%
pH (5% solution in water)	7.5 - 9.0
Loss on drying (at 130°C)	39 - 40.5%
Chloride (Cl)	Max 0.005%

Nitrogen compounds (as N)	Max 0.005%
Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.003%
Calcium & magnesium (as Ca)	Max 0.005%
Heavy metal (as Pb)	Max 0.0006%
Aluminium (Al)	Max 0.005%
Arsenic (As)	Max 0.0002%
Iron (Fe)	Max 0.001%
Potassium (K)	Max 0.01%
Reducing substance	Passes test

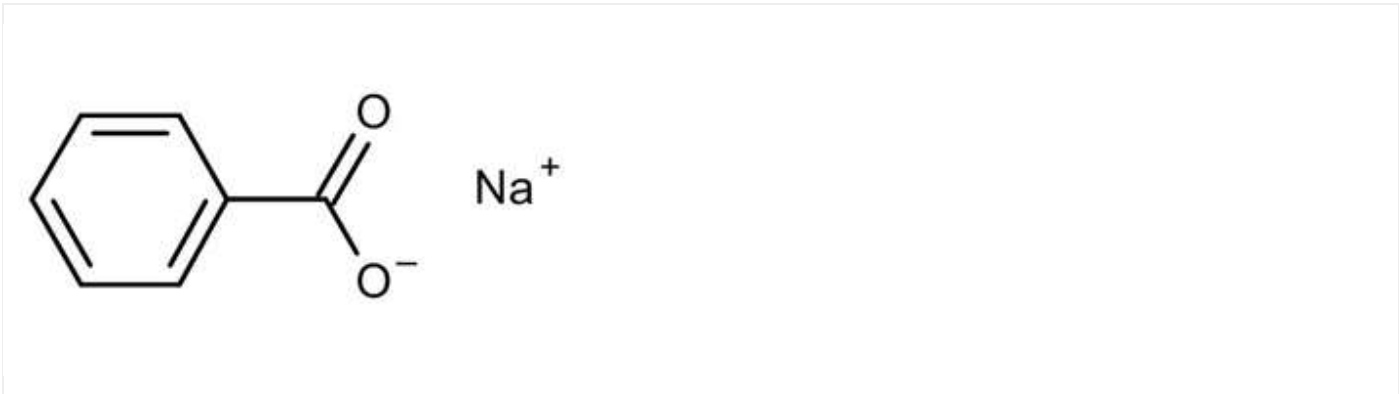
Safety Information and Hazard Symbols

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SODIUM BENZOATE 99.5% AR

Benzoic acid sodium salt

Product Code.	02360	Grade	
Purity	99.5%	CAS No.	532-32-1
Molecular Formula	C6H5COONa	Molecular Weight	144.10
H.S.Code	2916.31400	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	7.0 - 8.5 at 144.1 g/l at 25 °C	Melting point/ Freezing point [°C]	> 300 °C	Flash point [°C]	> 100 °C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Density [g/cm3]	1.44	Solubility in water [% weight]	556 g/l at 20 °C
Partition coefficient Log Pow octanol / water at 20°C	-2.13				

Packaging

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Specification

Appearance	White crystalline powder
Assay (on anhydrous basis)	Min 99.5%
Arsenic (As)	Max 0.0002%
Heavy metal (as Pb)	Max 0.0005%
Chloride (Cl)	Max 0.02%

Sulphate (SO4)	Max 0.01%
Loss on drying (at 105°C)	Max 1.0%

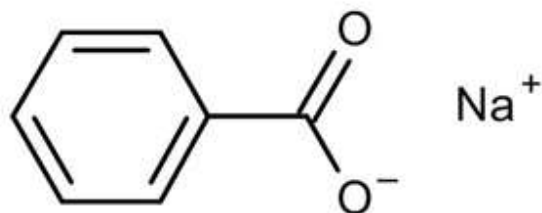
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H319 Precaution Statement: P305 + P351 + P338

SODIUM BENZOATE 99% EXTRAPURE

Confirms to IP, BP Benzoic acid sodium salt

Product Code.	02359	Grade	Extrapure
Purity	99%	CAS No.	532-32-1
Molecular Formula	C ₆ H ₅ COONa	Molecular Weight	144.10
H.S.Code	2916.31400	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	7.0 - 8.5 at 144.1 g/l at 25 °C	Melting point/ Freezing point [°C]	> 300 °C	Flash point [°C]	> 100 °C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Density [g/cm ³]	1.44	Solubility in water [% weight]	556 g/l at 20 °C
Partition coefficient Log Pow octanol / water at 20°C	-2.13				

Packaging

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Specification

Appearance	White crystalline powder
Assay	99.0 - 100.5%
Identification	Passes test
Appearance of solution	Passes test
Acidity or alkalinity	Passes test

Loss on drying (at 105°C)	Max 1.5%
Heavy metal (as Pb)	Max 0.001%
Total chlorine (as Cl)	Max 0.03%
Chloride (Cl)	Max 0.02%
Sulphate (SO4)	Max 0.01%

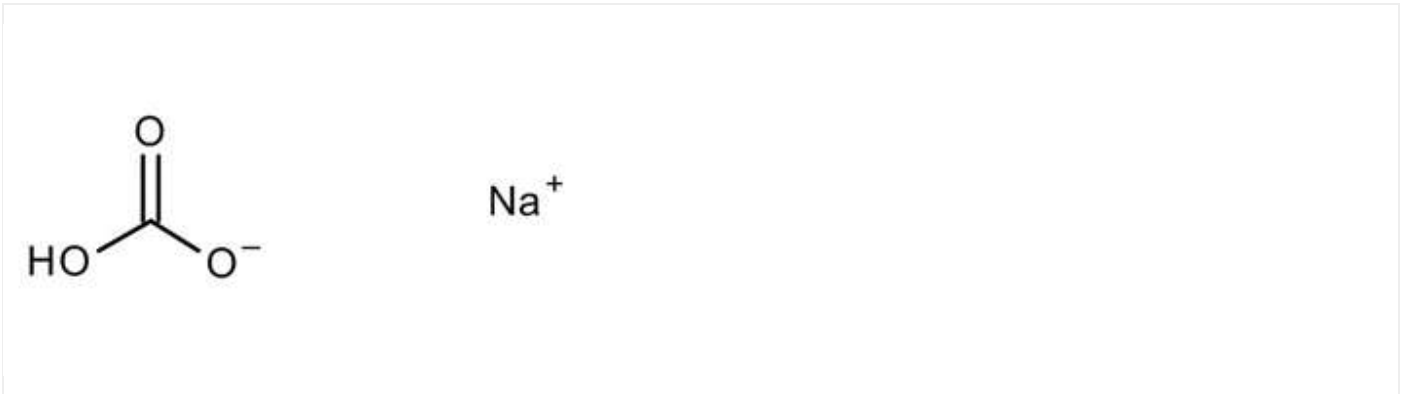
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H319 Precaution Statement: P305 + P351 + P338

SODIUM BICARBONATE 99.5% EXTRAPURE

sodium hydrogen carbonate

Product Code.	02361	Grade	Extrapure
Purity	99.5%	CAS No.	144-55-8
Molecular Formula	NaHCO3	Molecular Weight	84.01
H.S.Code	2836.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8 - 8.5	Melting point/ Freezing point [°C]	300 °C	Decomposition point [°C]	50 °C
Density [g/cm3]	2.16	Solubility in water [% weight]	9 g/100mL (20°C)		

Packaging

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Specification

Appearance	A soft white crystalline powder
Assay (acidimetric)	99.5 - 101.0%
pH (5% solution in water)	8.0 - 8.5
Chloride (Cl)	Max 0.015%
Sulphate (SO4)	Max 0.01%
Total nitrogen (N)	Max 0.002%
Heavy metal (as Pb)	Max 0.0005%

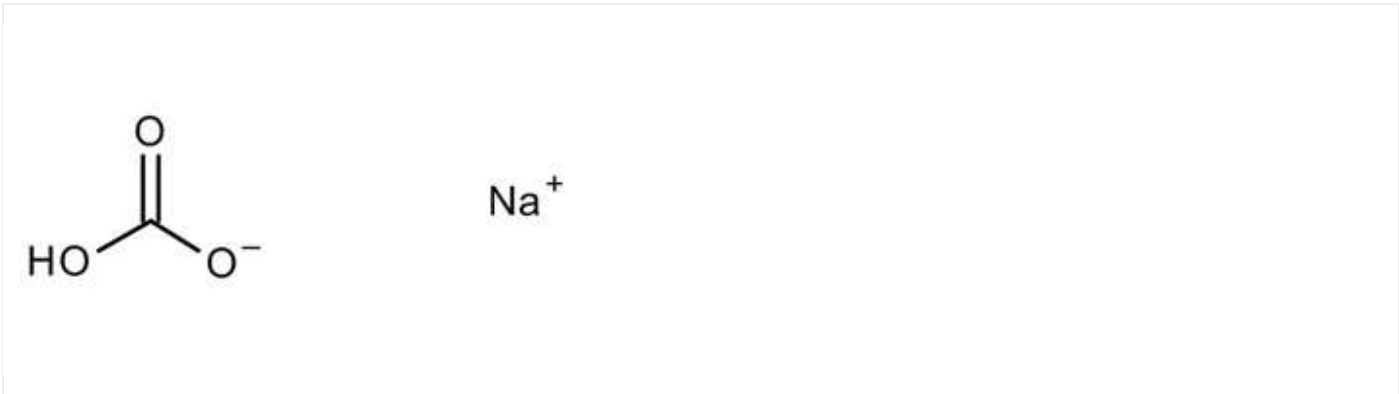
Arsenic (As)	Max 0.0002%
Lead (Pb)	Max 0.0005%
Calcium (Ca)	Max 0.01%
Iron (Fe)	Max 0.002%

Safety Information and Hazard Symbols

SODIUM BICARBONATE 99.7% AR

Confirms to BP, USP (sodium hydrogen carbonate)

Product Code.	02362	Grade	AR
Purity	99.7%	CAS No.	144-55-8
Molecular Formula	NaHCO3	Molecular Weight	84.01
H.S.Code	2836.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8 - 8.5	Melting point/ Freezing point [°C]	300 °C	Decomposition point [°C]	50 °C
Density [g/cm3]	2.16	Solubility in water [% weight]	9 g/100mL (20°C)		

Packaging

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Specification

Appearance	A soft white crystalline powder
Assay	99.7 - 100.5%
Identity	Passes test
Insoluble matter	Max 0.015%
Carbonate	Passes test
pH	Max 8.6
Chloride (Cl)	Max 0.003%

Nitrogen compounds (as N)	Max 0.001%
Phosphate (PO4)	Max 0.005%
Silicate (SiO2)	Max 0.005%
Sulphate (SO4)	Max 0.003%
Ammonium (NH4)	Max 0.0005%
Arsenic (As)	Max 0.0002%
Calcium (Ca)	Max 0.005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.0005%
Magnesium (Mg)	Max 0.005%
Potassium (K)	Max 0.005%
Substance reducing iodine (I)	Max 0.0065%
Loss on drying (over silica gel; 4 hrs)	Max 0.25%

Safety Information and Hazard Symbols

SODIUM BISELENITE 98% FOR MICROBIOLOGY

Sodium hydrogen selenite

Product Code.	02365	Grade	For Microbiology
Purity	98%	CAS No.	7782-82-3
Molecular Formula	NaHSeO3	Molecular Weight	150.96
H.S.Code	2841.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	pH value	6- 7 at 50 g/l at 25 °C
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Specification

Appearance	White powder
Assay	Min 98.0%
pH (2% solution)	5.0 - 8.0

Safety Information and Hazard Symbols


Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 2630 IMCO Class No.: 6.1 Packing Group: I Hazardous Statement: H301-H331-H373-H410 Precaution Statement: P261-P273-P301 + P310-P311-P501

SODIUM BISMUTHATE 80% EXTRAPURE

Sodium bismuth oxide

Product Code.	02366	Grade	
Purity	80%	CAS No.	12232-99-4
Molecular Formula	NaBiO3	Molecular Weight	279.97
H.S.Code	2841.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow	Odour	Odorless
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	A yellowish brown amorphous powder
Assay (as NaBiO3)	Min 80%
Manganese (Mn)	Max 0.002%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

SODIUM BISMUTHATE 85% AR

Sodium bismuth oxide

Product Code.	02367	Grade	
Purity	85%	CAS No.	12232-99-4
Molecular Formula	NaBiO3	Molecular Weight	279.97
H.S.Code	2841.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow	Odour	Odorless
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	A yellowish brown amorphous powder
Assay	Min 85.0%
Chloride (Cl)	Max 0.01%
Manganese (Mn)	Max 0.0005%

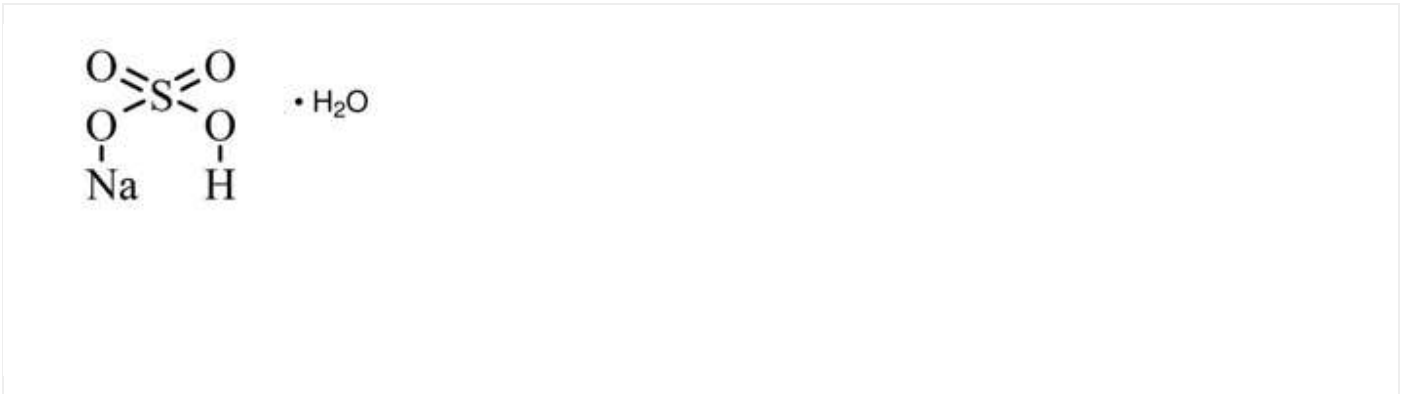
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

SODIUM BISULPHATE MONOHYDRATE 99% AR

Sodium hydrogen sulfate monohydrate

Product Code.	02369	Grade	
Purity	99%	CAS No.	10034-88-5
Molecular Formula	NaHSO4.H2O	Molecular Weight	138.08
H.S.Code	2833.19100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	~1	Melting point/ Freezing point [°C]	183°C	Decomposition point [°C]	430°C
Density [g/cm3]	2.12	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	Colorless crystals
Assay (acidimetric)	Min 99%
Chloride (Cl)	Max 0.001%
Phosphate (PO4)	Max 0.001%
Total nitrogen (N)	Max 0.001%
Heavy metal (as Pb)	Max 0.0005%
Aluminium (Al)	Max 0.001%

Calcium (Ca)	Max 0.001%
Iron (Fe)	Max 0.001%
Potassium (K)	Max 0.002%
Magnesium (Mg)	Max 0.0005%

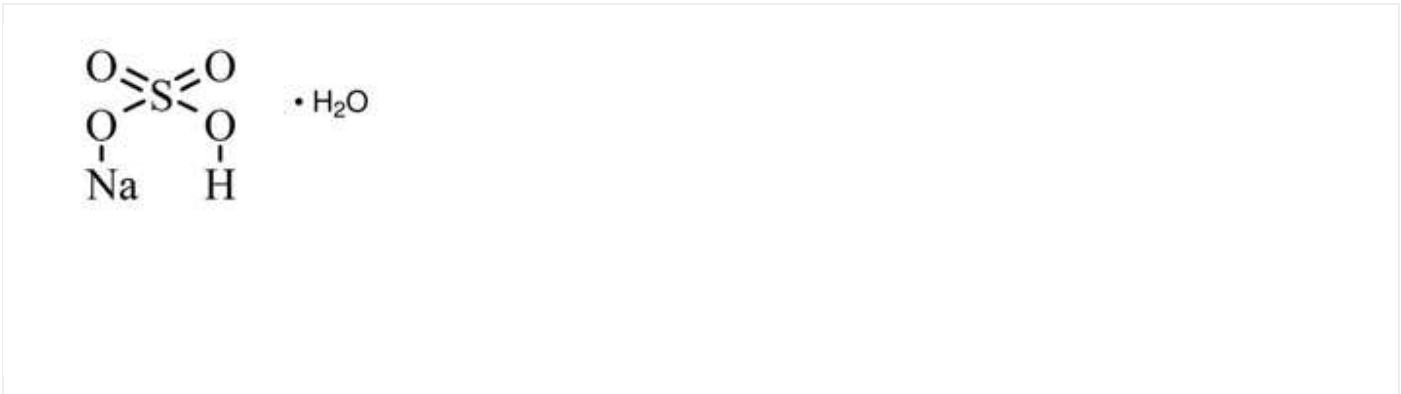
Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3260 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H318 Precaution Statement: P280-P305 + P351 + P338

SODIUM BISULPHATE MONOHYDRATE 99% EXTRAPURE

Sodium hydrogen sulfate monohydrate

Product Code.	02368	Grade	Extrapure
Purity	99%	CAS No.	10034-88-5
Molecular Formula	NaHSO4.H2O	Molecular Weight	138.08
H.S.Code	2833.19100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	~1	Melting point/ Freezing point [°C]	183°C	Decomposition point [°C]	430°C
Density [g/cm3]	2.12	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	White or colorless crystalline powder or crystals
Assay (acidimetric)	Min 99.0%
Chloride (Cl)	Max 0.005%
Heavy metal (as Pb)	Max 0.004%
Iron (Fe)	Max 0.005%
Calcium (Ca)	Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3260

IMCO Class No.: 8

Packing Group: III

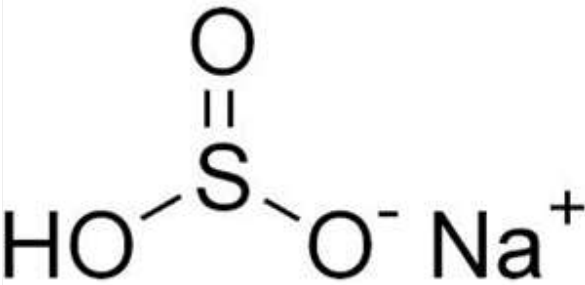
Hazardous Statement: H318

Precaution Statement: P280-P305 + P351 + P338

SODIUM BISULPHITE AR

Sodium acid sulphite, Sodium hydrogensulfite

Product Code.	02371	Grade	
Purity		CAS No.	7631-90-5
Molecular Formula	NaHSO3	Molecular Weight	104.06
H.S.Code	2832.10100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight odor of sulfur dioxide
Melting point/ Freezing point [°C]	150°C	Density [g/cm3]	1.48	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White crystalline powder
Assay (as SO2; iodometric)	Min 58.5%
Arsenic (As)	Max 0.0001%
Chloride (Cl)	Max 0.02%

Heavy metal (as Pb)	Max 0.001%
Insoluble matter	Max 0.005%
Iron (Fe)	Max 0.002%

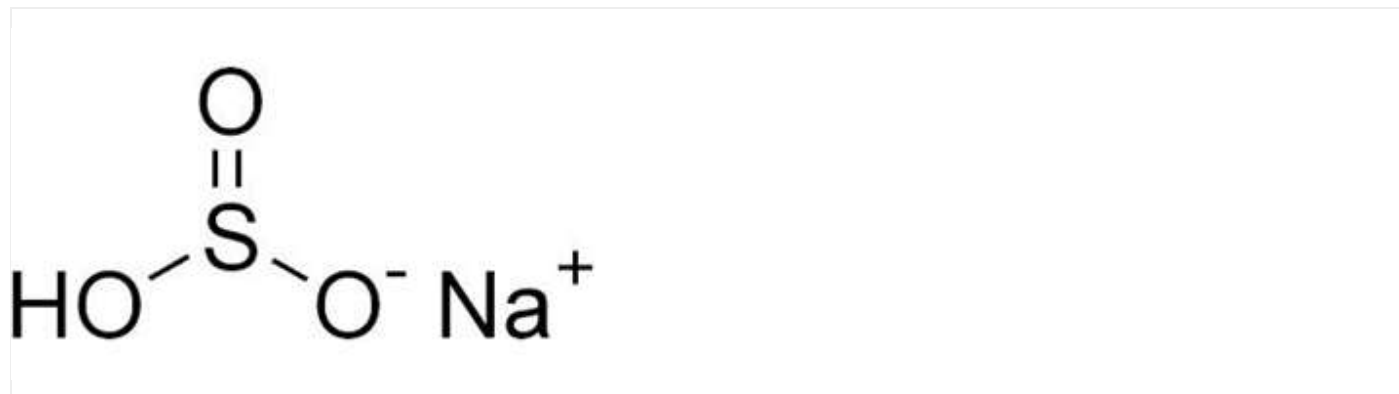
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger Hazardous Statement: H302-H318 Precaution Statement: P280-P305 + P351 + P338

SODIUM BISULPHITE EXTRAPURE

Sodium hydrogen sulphite ; sodium acid sulphite

Product Code.	02370	Grade	Extrapure
Purity		CAS No.	7631-90-5
Molecular Formula	NaHSO ₃	Molecular Weight	104.06
H.S.Code	2832.10100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight odor of sulfur dioxide
Melting point/ Freezing point [°C]	150°C	Density [g/cm ³]	1.48	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White to yellowish white crystalline or granular powder
Assay (as SO ₂ ; iodometric)	Min 58.0%
Chloride (Cl)	Max 0.05%
Heavy metal (as Pb)	Max 0.001%

Insoluble matter	Max 0.005%
Iron (Fe)	Max 0.003%
Solubility	Passes test

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger Hazardous Statement: H302-H318 Precaution Statement: P280-P305 + P351 + P338

SODIUM BROMATE 99% EXTRAPURE

Sodium bromate(V); Bromic acid sodium salt

Product Code.	02373	Grade	Extrapure
Purity	99%	CAS No.	7789-38-0
Molecular Formula	NaBrO3	Molecular Weight	150.89
H.S.Code	2829.90200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	5 - 9
Melting point/ Freezing point [°C]	381°C	Density [g/cm3]	3.34	Solubility in water [% weight]	Soluble in cold water
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2				

Specification

Appearance	White crystalline powder
Assay (iodometric)	Min 99.0%
pH (5 % solution)	5 - 9
Bromide (Br)	Max 0.05%
Sulphate (SO4)	Max 0.05%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07 Signal Word: Danger UN No.: 1494 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H302-H315-H319-H335 Precaution Statement: P220-P261-P305 + P351 + P338

SODIUM CHLORITE FLAKES/CRYSTALS 80%

Chlorous acid sodium salt; Textone

Product Code.	02388	Grade	
Purity	80%	CAS No.	7758-19-2
Molecular Formula	NaClO ₂	Molecular Weight	90.44
H.S.Code	2828.90300	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White flakes	pH value	10 - 11
Solubility in water [% weight]	Appreciable (> 10%)	Explosion limits -lower [%]	7%		

Packaging

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Specification

Appearance	White crystalline powder/ flakes
Assay	Min 80.0%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS06, GHS09 Signal Word: Danger UN No.: 1496 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H301-H310-H314-H330-H400 Precaution Statement: P220-P260-P273-P280-P284-P301 + P310

SODIUM CHROMATE TETRAHYDRATE 99% AR

Chromic acid disodium salt; Chromium disodium oxide; Rachromate

Product Code.	02391	Grade	AR
Purity	99%	CAS No.	10034-82-9
Molecular Formula	Na2CrO4.4H2O	Molecular Weight	234.07
H.S.Code	2841.50100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Lemon yellow	Odour	Odorless
Density [g/cm3]	2.723	Solubility in water [% weight]	Soluble in cold water		

Specification

Appearance	Lemon yellow crystalline powder
Assay	Min 99%
Acidity (as HCl)	Max 0.2%
Alkalinity (as NaOH)	Max 0.1%
Aluminium (Al)	Max 0.002%
Calcium (Ca)	Max 0.005%
Chloride (Cl)	Max 0.005%
Insoluble matter	Max 0.005%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3288 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H301-H312-H314-H317-H330-H334-H340-H350-H360FD-H372-H410 Precaution Statement: P201-P260-P273-P280-P284-P301 + P310

SODIUM CHROMATE TETRAHYDRATE 99% EXTRAPURE

Chromic acid disodium salt; Chromium disodium oxide; Rachromate

Product Code.	02390	Grade	Extrapure
Purity	99%	CAS No.	10034-82-9
Molecular Formula	Na2CrO4·4H2O	Molecular Weight	234.07
H.S.Code	2841.50100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Lemon yellow	Odour	Odorless
Density [g/cm3]	2.723	Solubility in water [% weight]	Soluble in cold water		

Packaging

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Specification

Appearance	Lemon yellow crystalline powder
Assay	Min 99.0%
Insoluble matter in water	Max 0.01%
Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.002%
Chloride (Cl)	Max 0.01%

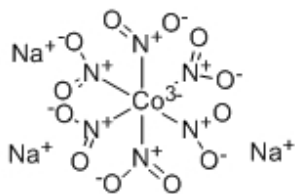
Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3288 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H301-H312-H314-H317-H330-H334-H340-H350-H360FD-H372-H410 Precaution Statement: P201-P260-P273-P280-P284-P301 + P310

SODIUM COBALTINITRITE AR

Sodium hexanitrocobaltate(III)

Product Code.	02396	Grade	
Purity		CAS No.	13600-98-1
Molecular Formula	Na3CO(NO2)6	Molecular Weight	403.94
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Brownish yellow	Odour	Odorless
Melting point/ Freezing point [°C]	220 °C	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	Brownish yellow crystalline powder
Identity	Passes test
Insoluble matter	Max 0.02%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%

Iron (Fe)	Max 0.002%
Suitability (for K determination)	Passes test
Sensitivity for K	Min 1:10000

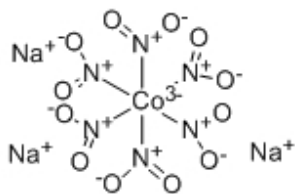
Safety Information and Hazard Symbols


Symbol: GHS03, GHS07, GHS08 Signal Word: Danger UN No.: 1479 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H315-H317-H319-H334-H335 Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

SODIUM COBALTINITRITE EXTRAPURE

Sodium hexanitrocobaltate (III)

Product Code.	02395	Grade	Extrapure
Purity		CAS No.	13600-98-1
Molecular Formula	Na3Co(NO2)6	Molecular Weight	403.94
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Brownish yellow	Odour	Odorless
Melting point/ Freezing point [°C]	220 °C	Solubility in water [% weight]	Soluble in water	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2

Packaging



Specification

Appearance	yellow to orange powder/Crystalline powder
Chloride (Cl)	Max 0.02%

Sulphate (SO4)	Max 0.02%
Sensitivity for K	Min 1:10000

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07, GHS08 Signal Word: Danger UN No.: 1479 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H315-H317-H319-H334-H335 Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

SODIUM DICHROMATE DIHYDRATE 98% EXTRAPURE

Sodium bichromate

Product Code.	02399	Grade	Extrapure
Purity	98%	CAS No.	7789-12-0
Molecular Formula	Na2Cr2O7.2H2O	Molecular Weight	298.00
H.S.Code	2841.30000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Orange Crystalline	Odour	Odorless
pH value	3.5-4.0	Melting point/ Freezing point [°C]	91 °C	Vapour density	10
Density [g/cm3]	2.35	Solubility in water [% weight]	Soluble in water (73%)		

Packaging

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Specification

Appearance	Orange crystalline powder
Assay (iodometric)	Min 98%
Chloride (Cl)	Max 0.03%
Sulphate (SO4)	Max 0.2%
Potassium (K)	Max 0.1%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3087 IMCO Class No.: 5.1 (6.1) Packing Group: II Hazardous Statement: H340-H317-H330-H334-H314-H312-H350-H410-H360FD-H372-H301-H272-H335 Precaution Statement: P280-P305+P351+P338-P310-P301+P330+P331-P303+P361+P353-P273

SODIUM DICHROMATE DIHYDRATE 99.5% AR

Sodium bichromate

Product Code.	02400	Grade	AR
Purity	99.5%	CAS No.	7789-12-0
Molecular Formula	Na2Cr2O7.2H2O	Molecular Weight	298.00
H.S.Code	2841.30000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Orange Crystalline	Odour	Odorless
pH value	3.5-4.0	Melting point/ Freezing point [°C]	91 °C	Vapour density	10
Density [g/cm3]	2.35	Solubility in water [% weight]	Soluble in water (73%)		

Specification

Appearance	Orange crystalline powder
Assay (iodometric)	99.5 - 100.5%
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%
Calcium (Ca)	Max 0.003%
Aluminium (Al)	Max 0.002%
Magnesium (Mg)	Max 0.005%
Potassium (K)	Max 0.01%

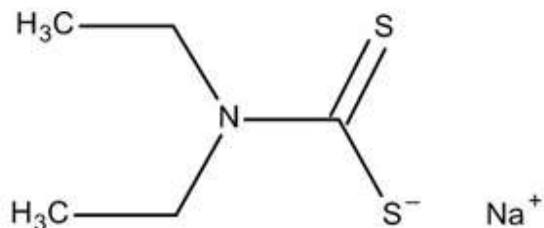
Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3087 IMCO Class No.: 5.1 (6.1) Packing Group: II Hazardous Statement: H340-H317-H330-H334-H314-H312-H350-H410-H360FD-H372-H301-H272-H335 Precaution Statement: P280-P305+P351+P338-P310-P301+P330+P331-P303+P361+P353-P273

SODIUM DIETHYL DITHIOCRBAMATE TRIHYDRATE 97% EXTRAPURE

Diethyldithiocarbamic acid sodium salt

Product Code.	02401	Grade	
Purity	97%	CAS No.	20624-25-3
Molecular Formula	C ₅ H ₁₀ NNaS ₂ ·3H ₂ O	Molecular Weight	225.31
H.S.Code	2930.20000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	11.6	Melting point/ Freezing point [°C]	95 - 98.5 °C	Vapour density	5.9
Density [g/cm ³]	1.1	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-1.43

Specification

Appearance	White crystalline powder
Assay	Min. 97.0%
Sensitivity for Cu	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

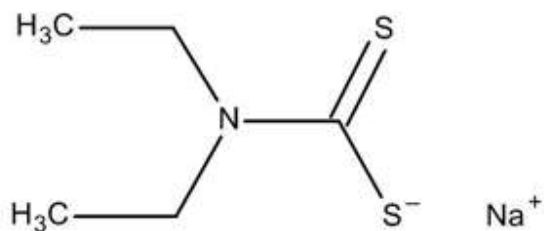
Hazardous Statement: H302-H315-H318

Precaution Statement: P280-P305 + P351 + P338

SODIUM DIETHYL DITHIOCRBAMATE TRIHYDRATE 99% AR

Diethyldithiocarbamic acid sodium salt

Product Code.	02402	Grade	
Purity	99%	CAS No.	20624-25-3
Molecular Formula	C ₅ H ₁₀ NNaS ₂ .3H ₂ O	Molecular Weight	225.31
H.S.Code	2930.20000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	11.6	Melting point/ Freezing point [°C]	95 - 98.5 °C	Vapour density	5.9
Density [g/cm ³]	1.1	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-1.43

Specification

Appearance	A white crystalline powder
Assay	Min 99%
Solubility in water	Passes test
Sulphated ash	30.5 - 32.5%
Sensitivity as reagent for copper	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

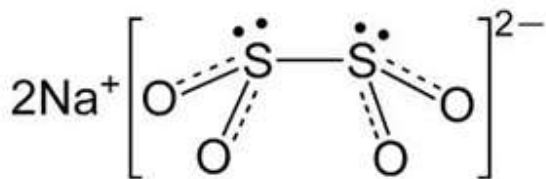
Hazardous Statement: H302-H315-H318

Precaution Statement: P280-P305 + P351 + P338

SODIUM DITHIONITE 85% EXTRAPURE

Sodium hypodisulphite ; Sodium Hydrosulphite

Product Code.	02404	Grade	Extrapure
Purity	85%	CAS No.	7775-14-6
Molecular Formula	Na ₂ S ₂ O ₄	Molecular Weight	174.11
H.S.Code	2831.10100	Shelf Life	24 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Distinct sulfur dioxide odor
pH value	7 - 9	Melting point/ Freezing point [°C]	300 °C	Vapour density	3.6
Density [g/cm ³]	2.19	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-4.7

Specification

Appearance	White crystalline powder
Assay (iodometric)	85 - 87%*
Iron (Fe)	Max 0.002%

Safety Information and Hazard Symbols

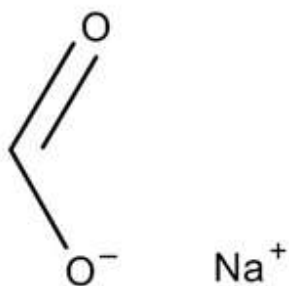


Symbol: GHS02, GHS07
Signal Word: Danger
UN No.: 1384
IMCO Class No.: 4.2
Packing Group: II
Hazardous Statement: H251-H302
Precaution Statement: P235 + P410

SODIUM FORMATE 98% EXTRAPURE

Formic acid sodium salt

Product Code.	02411	Grade	Extrapure
Purity	98%	CAS No.	141-53-7
Molecular Formula	HCOONa	Molecular Weight	68.01
H.S.Code	2915.12100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight formic acid odour
pH value	7 - 8.5	Melting point/ Freezing point [°C]	259 - 262 °C	Density [g/cm3]	1.92
Solubility in water [% weight]	97 g/100 g water @ 200C				

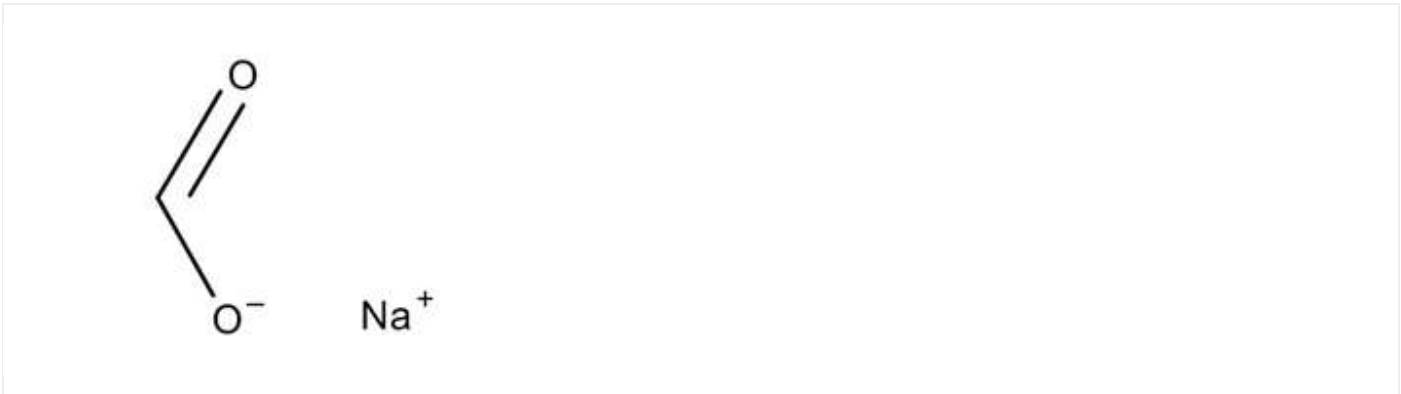
Specification

Appearance	Off white colored crystalline powder.
Assay	Min 98%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.005%
Iron (Fe)	Max 0.005%

SODIUM FORMATE 99% AR

Formic acid sodium salt

Product Code.	02412	Grade	AR
Purity	99%	CAS No.	141-53-7
Molecular Formula	HCOONa	Molecular Weight	68.01
H.S.Code	2915.12100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight formic acid odour
pH value	7 - 8.5	Melting point/ Freezing point [°C]	259 - 262 °C	Density [g/cm3]	1.92
Solubility in water [% weight]	97 g/100 g water @ 200C				

Packaging

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Specification

Appearance	Colorless to white crystalline powder / crystals
Assay	Min 99%
Insoluble matter	Max 0.005%
pH (5% solution in water)	7.0 - 8.5
Chloride (Cl)	Max 0.001%

Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.001%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Calcium (Ca)	Max 0.0005%
Loss on dryig (at 150°C)	Max 0.5%

Safety Information and Hazard Symbols

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SODIUM HYPOPHOSPHITE MONOHYDRATE

Product Code.	2437B	Grade	
Purity	99%	CAS No.	10039-56-2
Molecular Formula	NaH2PO2.H2O	Molecular Weight	105.99
H.S.Code	2835.39000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Odorless
pH value	6 - 8 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	90 °C	Density [g/cm3]	0.8
Solubility in water [% weight]	Soluble in water				

Packaging

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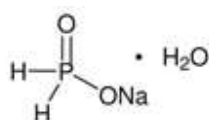
Specification

Appearance	Colorless crystalline powder
Assay	Min 99.0%
Water (by KF)	5 - 18%
Alkalinity or acidity reacting impurities	Passes test
Arsenic (As)	Max 0.0005%
Calcium (Ca)	Max 0.02%
Iron (Fe)	Max 0.001%
Heavy Metal (as pb)	Max 0.001%
Chloride (Cl)	Max 0.02%
Phosphate, phosphite (as PO4)	Passes test
Sulphate (SO4)	Max 0.2%

SODIUM HYPOPHOSPHITE MONOHYDRATE 99% AR

As reagent for arsenic and iodates. Sodium phosphinate

Product Code.	02437	Grade	
Purity	99%	CAS No.	10039-56-2
Molecular Formula	NaH2PO2.H2O	Molecular Weight	105.99
H.S.Code	2835.39000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Odorless
pH value	6 - 8 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	90 °C	Density [g/cm3]	0.8
Solubility in water [% weight]	Soluble in water				

Packaging

Specification

Appearance	Colorless crystalline powder
Assay	Min 99%
Water (by KF)	5 - 18%
Alkalinity or acidity reacting impurities	Passes test
Arsenic (As)	Max 0.0005%
Calcium (Ca)	Max 0.02%

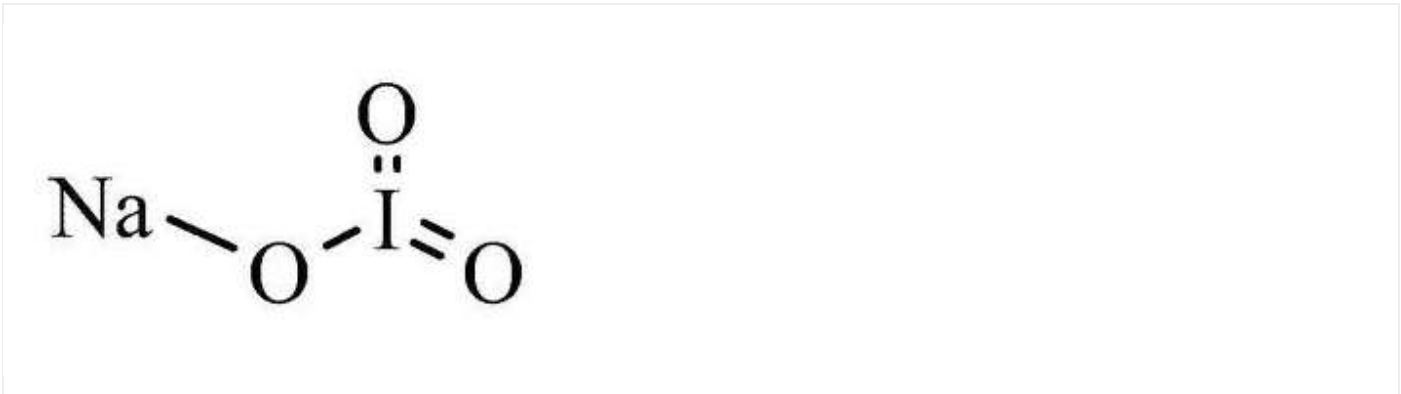
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Chloride (Cl)	Max 0.02%
Phosphate, Phosphite (as PO4)	Passes test
Sulphate (SO4)	Max 0.2%

Safety Information and Hazard Symbols

SODIUM IODATE 99.5% AR

Suitable for examination of milk. Iodic acid sodium salt

Product Code.	02439	Grade	
Purity	99.5%	CAS No.	7681-55-2
Molecular Formula	NaIO3	Molecular Weight	197.89
H.S.Code	2829.90300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	5.5 - 7.0	Density [g/cm3]	4.28	Solubility in water [% weight]	19.8 g/l at 20 °C
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2				

Packaging

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Specification

Appearance	White to off white crystalline powder
Assay (iodometric)	Min 99.5%
pH (5% solution in water)	5.0 - 8.0
Chloride, chlorate and bromide, bromate (as Cl)	Max 0.02%
Iodide (I)	Max 0.002%

Sulphate (SO4)	Max 0.005%
Total nitrogen (N)	Max 0.002%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.001%
Potassium (K)	Max 0.02%

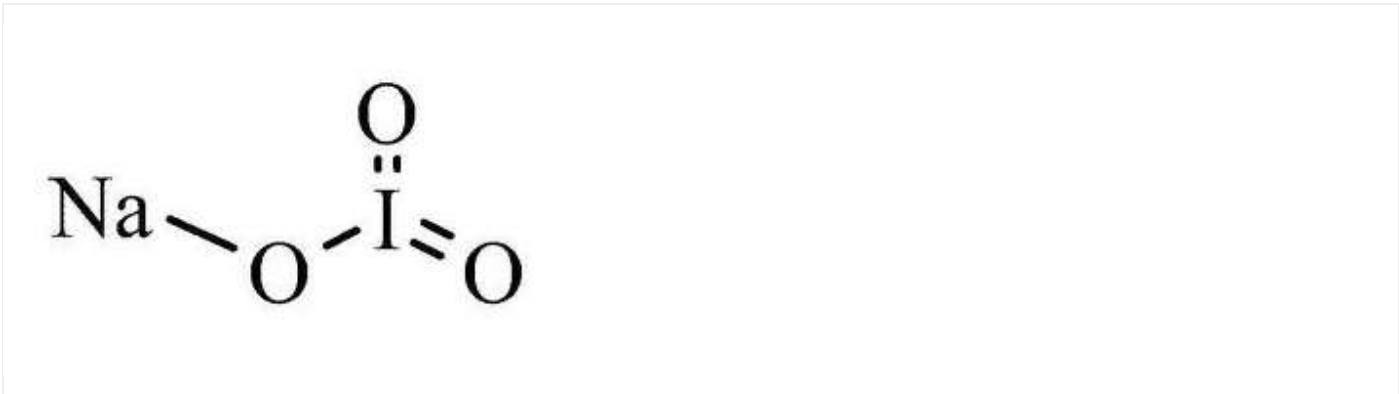
Safety Information and Hazard Symbols


Symbol: GHS03, GHS07, GHS08 Signal Word: Danger UN No.: 1479 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H302-H317-H334 Precaution Statement: P220-P261-P280-P342 + P311

SODIUM IODATE 99% EXTRAPURE

Iodic acid sodium salt

Product Code.	02438	Grade	
Purity	99%	CAS No.	7681-55-2
Molecular Formula	NaIO3	Molecular Weight	197.89
H.S.Code	2829.90300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	5.5 - 7.0	Density [g/cm3]	4.28	Solubility in water [% weight]	19.8 g/l at 20 °C
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2				

Packaging

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Specification

Appearance	White to off white crystalline powder
Assay (iodometric)	Min 99%
pH (5% solution in water)	5.0 - 8.0
Chloride & chlorates (as Cl)	Max 0.04%
Iodide (I)	Max 0.002%

Sulphate (SO4)

Max 0.03%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07, GHS08

Signal Word: Danger

UN No.: 1479

IMCO Class No.: 5.1

Packing Group: II

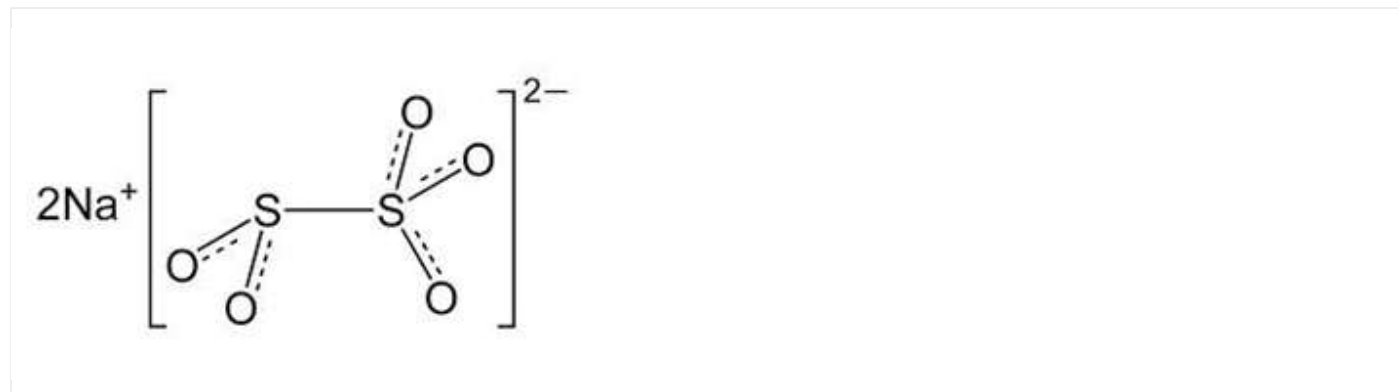
Hazardous Statement: H272-H302-H317-H334

Precaution Statement: P220-P261-P280-P342 + P311

SODIUM METABISULPHITE 96.5% EXTRAPURE

Confirming to BP, USP Sodium pyrosulfite, Sodium disulfite

Product Code.	02444	Grade	Extrapure
Purity	96.5%	CAS No.	7681-57-4
Molecular Formula	Na ₂ S ₂ O ₅	Molecular Weight	190.10
H.S.Code	2832.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Sulphurous
pH value	4.5 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	300 °C	Density [g/cm ³]	1.48
Solubility in water [% weight]	650 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	-3.7		

Packaging

Specification

Appearance	White crystalline powder
Assay (iodometric)	96.5 - 100%
Assay (as SO ₂ ; iodometric)	65 - 67.4%
Identity (acc. to pharmacopoeias)	Passes test
pH (5% solution in water)	3.5 - 5.0
Appearance of solution	Passes test

Insoluble matter in water	Max 0.025%
Residual solvents	Passes test
Chloride (Cl)	Max 0.02%
Thiosulphate (S2O3)	Max 0.05%
Heavy metal (as Pb)	Max 0.002%
Arsenic (As)	Max 0.0004%
Iron (Fe)	Max 0.002%

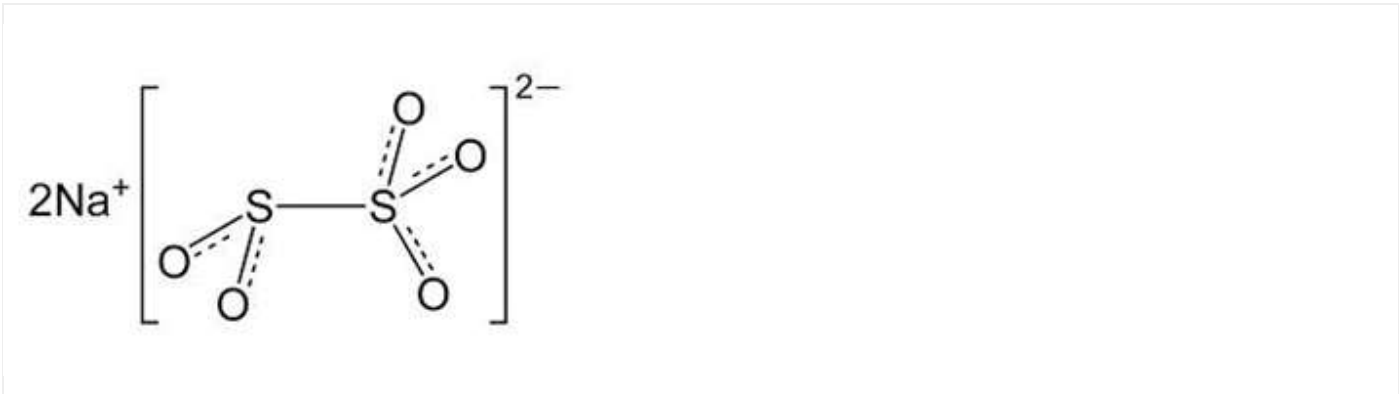
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger Hazardous Statement: H302-H318 Precaution Statement: P280-P305 + P351 + P338

SODIUM METABISULPHITE 97% AR

Sodium pyrosulphite; Sodium disulphite

Product Code.	02445	Grade	
Purity	97%	CAS No.	7681-57-4
Molecular Formula	Na2S2O5	Molecular Weight	190.10
H.S.Code	2832.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Sulphurous
pH value	4.5 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	300 °C	Density [g/cm3]	1.48
Solubility in water [% weight]	650 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	-3.7		

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min. 97.0%
Insoluble matter in water	Max. 0.005%
Chloride (Cl)	Max. 0.005%
Arsenic (As)	Max. 0.0001%
Phosphate (PO4)	Max. 0.002%

Thiosulphate (S2O3)	Max. 0.05%
Heavy metal (as Pb)	Max. 0.001%
Iron (Fe)	Max. 0.002%

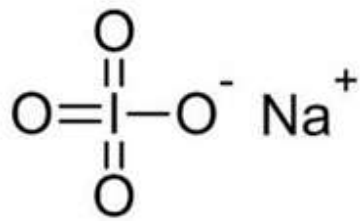
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger Hazardous Statement: H302-H318 Precaution Statement: P280-P305 + P351 + P338

SODIUM METAPERIODATE 98% EXTRAPURE

Sodium periodate meta

Product Code.	02447	Grade	
Purity	98%	CAS No.	7790-28-5
Molecular Formula	NaIO4	Molecular Weight	213.89
H.S.Code	2829.90300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3.5 - 5.5	Melting point/ Freezing point [°C]	300 °C	Density [g/cm3]	3.8
Solubility in water [% weight]	107 g/l at 20 °C - completely soluble	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2		

Packaging

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Specification

Appearance	Colorless crystals white crystalline powder
Assay	Min 98%
Bromate, bromide, chlorate and chloride (as Cl)	Max 0.05%
Sulphate (SO4)	Max 0.01%
Iodide (I)	Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05, GHS08, GHS09

Signal Word: Danger

UN No.: 3085

IMCO Class No.: 5.1 (8)

Packing Group: I

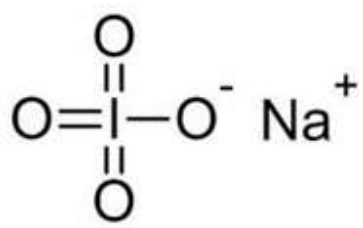
Hazardous Statement: H271-H314-H372-H400

Precaution Statement: P210-P280-P303 + P361 + P353-P304 + P340 + P310-P305 + P351 + P338-P371 + P380 + P375

SODIUM METAPERIODATE 99.8% AR

For the colorimetric determination of tri-glycerides. Sodium periodate

Product Code.	02448	Grade	AR
Purity	99.8%	CAS No.	7790-28-5
Molecular Formula	NaIO4	Molecular Weight	213.89
H.S.Code	2829.90300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3.5 - 5.5	Melting point/ Freezing point [°C]	300 °C	Density [g/cm3]	3.8
Solubility in water [% weight]	107 g/l at 20 °C - completely soluble	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2		

Packaging

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Specification

Appearance	Colorless crystals or white crystalline powder
Assay (as NaIO4)	99.8 - 100.3%
Chloride, chlorate and bromide, bromate (as Cl)	Max 0.01%
Sulphate (SO4)	Max 0.005%
Manganese (Mn)	Max 0.0003%

Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.001%
Iodine (I)	Max 0.001%

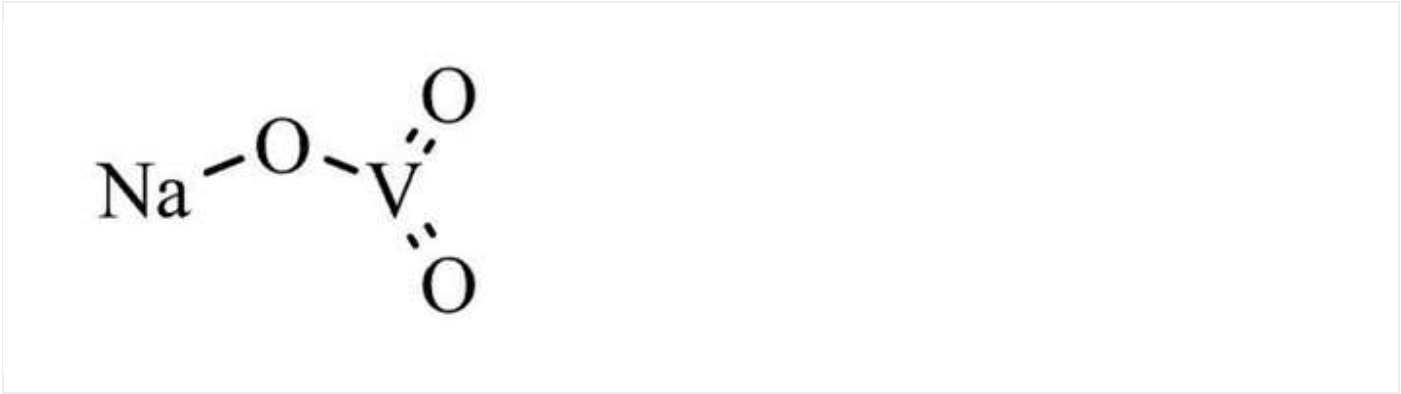
Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS08, GHS09 Signal Word: Danger UN No.: 3085 IMCO Class No.: 5.1 (8) Packing Group: I Hazardous Statement: H271-H314-H372-H400 Precaution Statement: P210-P280-P303 + P361 + P353-P304 + P340 + P310-P305 + P351 + P338-P371 + P380 + P375

SODIUM METAVANADATE 98% EXTRAPURE

Sodium (meta)vanadate; Sodium trioxovanadate; Sodium vanadate(V); Sodium vanadium oxide; Sodium vanadium trioxide

Product Code.	02450	Grade	
Purity	98%	CAS No.	13718-26-8
Molecular Formula	NaVo3	Molecular Weight	121.93
H.S.Code	2841.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow	Odour	Odorless
Melting point/ Freezing point [°C]	630°C	Solubility in water [% weight]	Soluble in cold water		

Packaging

Specification

Appearance	Pale yellow powder
Assay (Ex V)	Min 98%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Phosphate (PO4)	Max 0.005%
Iron (Fe)	Max 0.005%
Lead (Pb)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 3285

IMCO Class No.: 6.1

Packing Group: III

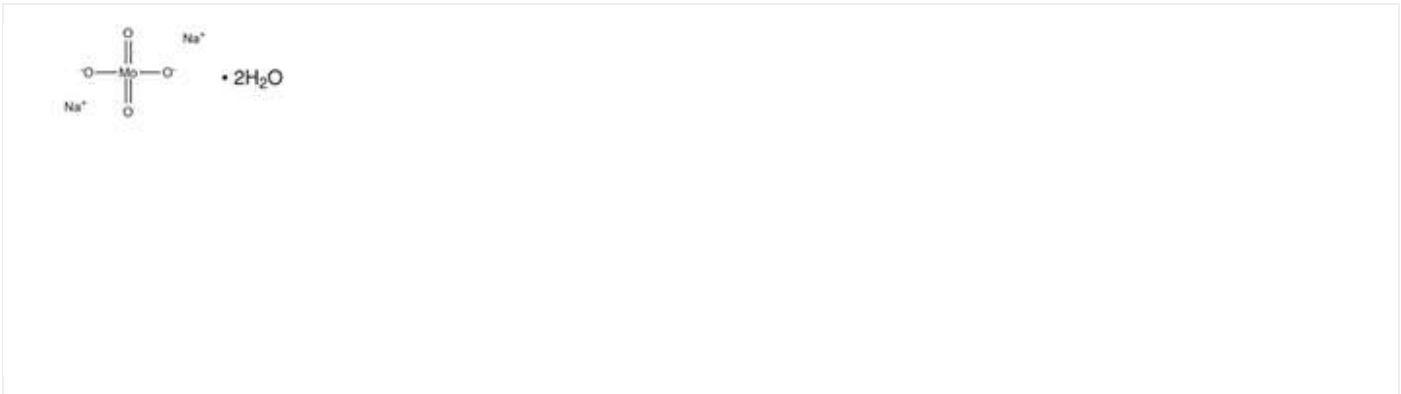
Hazardous Statement: H301-H315-H319-H335

Precaution Statement: P261-P301 + P310-P305 + P351 + P338

SODIUM MOLYBDATE DIHYDRATE 98% EXTRAPURE

Molybdic acid sodium salt dihydrate

Product Code.	02453	Grade	
Purity	98%	CAS No.	10102-40-6
Molecular Formula	Na2MoO4.2H2O	Molecular Weight	241.95
H.S.Code	2841.70200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	100 °C	Density [g/cm3]	2.37	Solubility in water [% weight]	84 g/100 g water @ 1000C

Packaging

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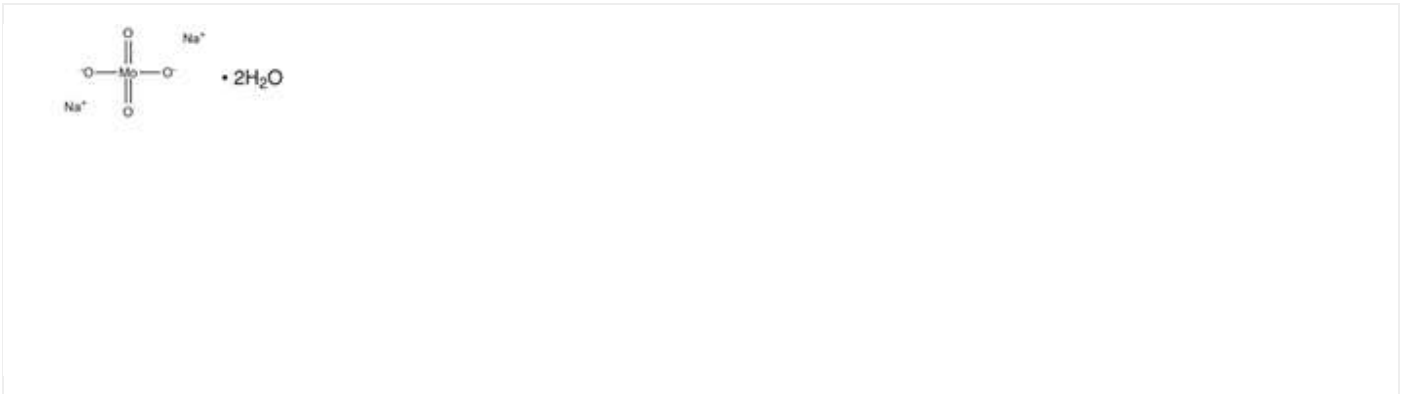
Specification

Appearance	White crystalline powder
Assay (precipitation titration)	Min 98%
Chloride (Cl)	Max 0.01%
Phosphate, arsenate, silicate, phosphate (as PO4)	Max 0.05%
Lead (Pb)	Max 0.001%
Iron (Fe)	Max 0.001%

SODIUM MOLYBDATE DIHYDRATE 99% AR

Molybdic acid sodium salt dihydrate

Product Code.	02454	Grade	
Purity	99%	CAS No.	10102-40-6
Molecular Formula	Na2MoO4.2H2O	Molecular Weight	241.95
H.S.Code	2841.70200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	100 °C	Density [g/cm3]	2.37	Solubility in water [% weight]	84 g/100 g water @ 1000C

Packaging

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Specification

Appearance	White crystalline powder
Assay	99 - 102%
Insoluble matter	Max 0.005%
pH (5 % solution)	7.0 - 10.5
Chloride (Cl)	Max 0.001%
Nitrate (NO3)	Max 0.005%
Phosphate (PO4)	Max 0.001%

Sulphate (SO4)	Max 0.02%
Ammonium (NH4)	Max 0.01%
Copper (Cu)	Max 0.002%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.001%

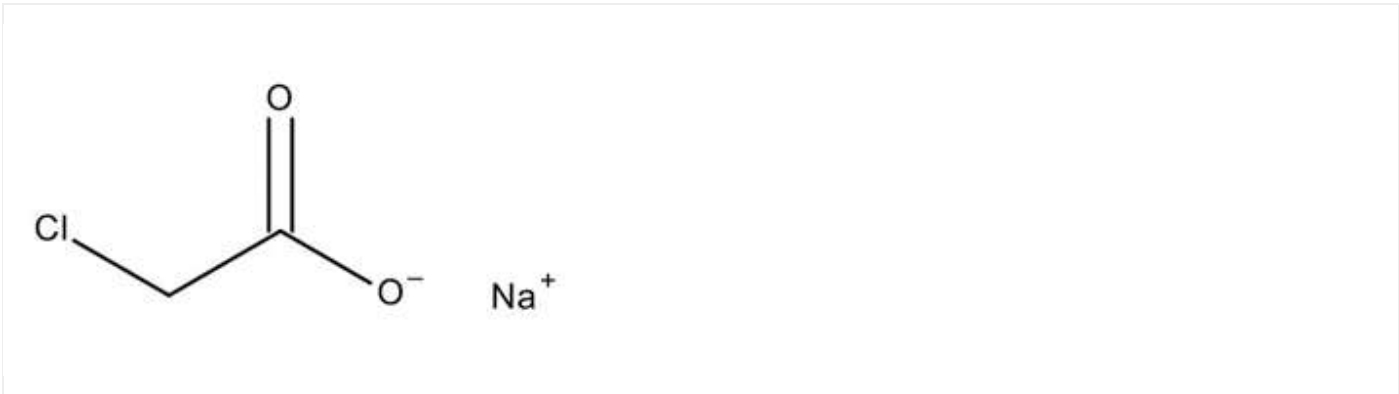
Safety Information and Hazard Symbols

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SODIUM MONOCHLOROACETATE 97.5% FOR SYNTHESIS

Sodium chloroacetate; Chloroacetic acid sodium salt

Product Code.	02455	Grade	
Purity	97.5%	CAS No.	3926-62-3
Molecular Formula	C2H2ClNaO2	Molecular Weight	116.48
H.S.Code	2915.40100	Shelf Life	60 Months



Physical Properties

Packaging

Specification

Appearance	White to off-white powder
Assay	97.5 – 102.5%

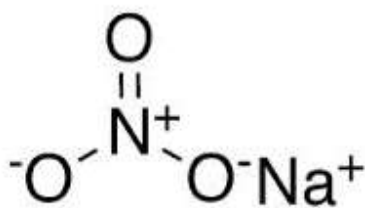
Safety Information and Hazard Symbols


Symbol: GHS06, GHS09 Signal Word: Danger UN No.: 2659 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H315-H400 Precaution Statement: P273-P301 + P310

SODIUM NITRATE 99% AR

Chile salpeter

Product Code.	02459	Grade	AR
Purity	99%	CAS No.	7631-99-4
Molecular Formula	NaNO3	Molecular Weight	84.99
H.S.Code	3102.50000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
Melting point/ Freezing point [°C]	306 °C	Boiling point [°C]	380°C	Density [g/cm3]	2.26
Solubility in water [% weight]	81.5 g/100 g water @ 150C				

Packaging

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Specification

Appearance	Colorless deliquescent crystals / White crystalline powder
Assay	Min 99%
pH (5% solution in water; 25°C)	5.5 - 8.3
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.001%
Iodate (IO3)	Max 0.0005%

Nitrite (NO2)	Max 0.001%
Phosphate (PO4)	Max 0.0005%
Sulphate (SO4)	Max 0.003%
Calcium (Ca)	Max 0.005%
Magnesium (Mg)	Max 0.002%
Heavy metal (as Pb)	Max 0.0005%
Iron (Fe)	Max 0.0003%

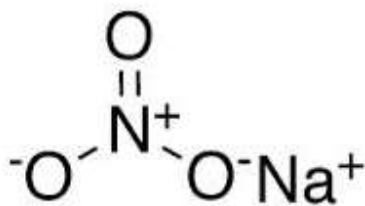
Safety Information and Hazard Symbols


Symbol: GHS03, GHS07 Signal Word: Warning UN No.: 1498 IMCO Class No.: 5.1 Packing Group: III Hazardous Statement: H272-H302-H315-H319-H335 Precaution Statement: P220-P261-P305 + P351 + P338

SODIUM NITRATE 99% EXTRAPURE

Chile salpeter ((purified crystals)

Product Code.	02458	Grade	Extrapure
Purity	99%	CAS No.	7631-99-4
Molecular Formula	NaNO3	Molecular Weight	84.99
H.S.Code	3102.50000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
Melting point/ Freezing point [°C]	306 °C	Boiling point [°C]	380°C	Density [g/cm3]	2.26
Solubility in water [% weight]	81.5 g/100 g water @ 150C				

Packaging

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Specification

Appearance	Colorless deliquescent crystals/ white crystalline powder
Assay (Titration after Ion exchange)	Min 99.0%
Chloride (Cl)	Max 0.005%
Nitrite (NO2)	Max 0.002%
Sulphate (SO4)	Max 0.01%
Heavy metal (as Pb)	Max 0.001%

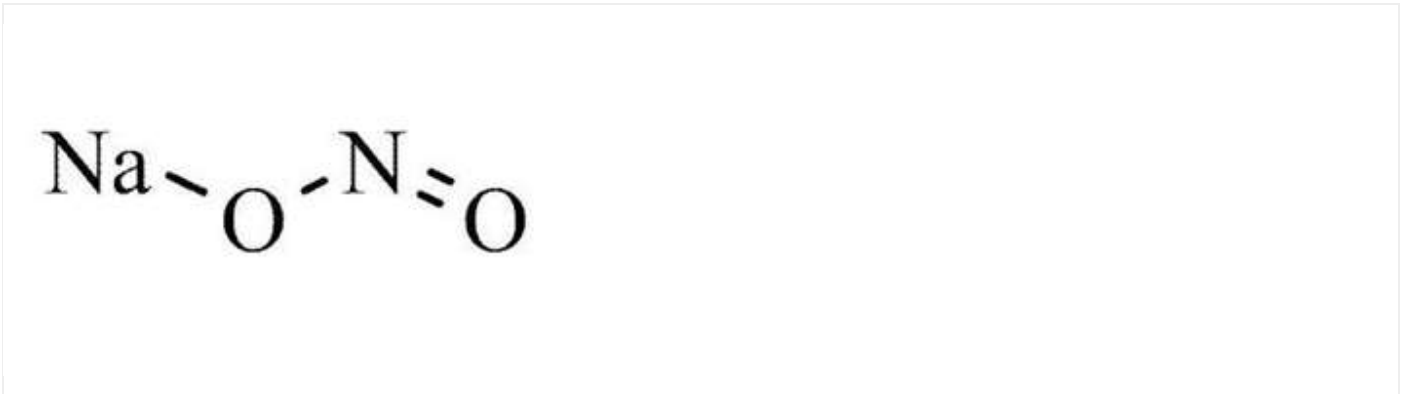
Lead (Pb)	Max 0.001%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07 Signal Word: Warning UN No.: 1498 IMCO Class No.: 5.1 Packing Group: III Hazardous Statement: H272-H302-H315-H319-H335 Precaution Statement: P220-P261-P305 + P351 + P338

SODIUM NITRITE 97% EXTRAPURE

Product Code.	02460	Grade	
Purity	97%	CAS No.	7632-00-0
Molecular Formula	NaNO2	Molecular Weight	69.00
H.S.Code	2834.10100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystals	Odour	Odorless
pH value	9	Melting point/ Freezing point [°C]	271 °C	Boiling point [°C]	320 °C
Density [g/cm3]	2.168	Solubility in water [% weight]	820 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	3.7
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 3				

Packaging

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Specification

Appearance	A pale yellow crystalline powder
Assay	Min 97%
Reaction	Passes test

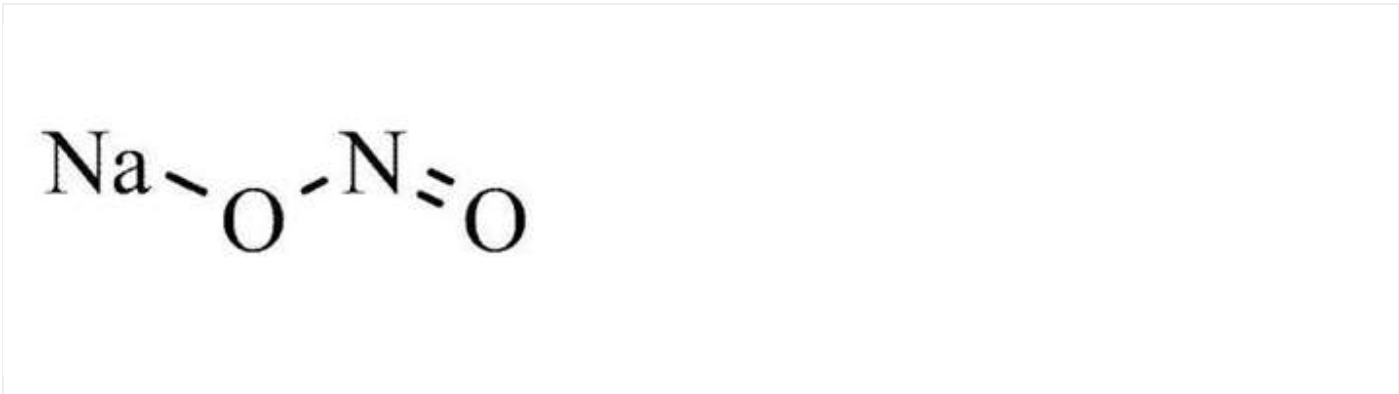
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%
Calcium (Ca)	Max 0.005%
Loss on drying	Max 0.25%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS06, GHS09 Signal Word: Danger UN No.: 1500 IMCO Class No.: 5.1, 6.1 Packing Group: III Hazardous Statement: H272-H301-H400 Precaution Statement: P220-P273-P301 + P310

SODIUM NITRITE 98% AR

Product Code.	02461	Grade	AR
Purity	98%	CAS No.	7632-00-0
Molecular Formula	NaNO2	Molecular Weight	69.00
H.S.Code	2834.10100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystals	Odour	Odorless
pH value	9	Melting point/ Freezing point [°C]	271 °C	Boiling point [°C]	320 °C
Density [g/cm3]	2.168	Solubility in water [% weight]	820 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	3.7
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 3				

Packaging

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Specification

Appearance	A pale yellow crystalline powder
Assay	Min 98%
Insoluble matter	Max 0.003%

Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Arsenic (As)	Max 0.00004%
Calcium (Ca)	Max 0.002%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Magnesium (Mg)	Max 0.002%
Potassium (K)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS06, GHS09 Signal Word: Danger UN No.: 1500 IMCO Class No.: 5.1,6.1 Packing Group: III Hazardous Statement: H272-H301-H400 Precaution Statement: P220-P273-P301 + P310

SODIUM NITRITE, 98.5%, FOR ANALYSIS

Product Code.	2461A	Grade	For Analysis
Purity	98.5%	CAS No.	7632-00-0
Molecular Formula	NNaO2	Molecular Weight	69.00
H.S.Code	2834.10100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystals	Odour	Odorless
pH value	9	Melting point/ Freezing point [°C]	271 °C	Boiling point [°C]	320 °C
Density [g/cm3]	2.168	Solubility in water [% weight]	820 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	3.7
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 3				

Packaging

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Specification

Appearance (Color)	Light yellow
Appearance (Form)	Crystalline powder or crystals
Titration with KMnO4	>=98.0 %
Heavy metals (as Pb)	=<10 ppm
Insoluble matter	=<0.003 % (in water)
Sulfate (So4)	=<50 ppm
Chloride (Cl)	=<20 ppm
Calcium (Ca)	=<25 ppm
Iron (Fe)	=<10 ppm
Potassium (K)	=<50 ppm

Safety Information and Hazard Symbols



Symbol: GHS03, GHS06, GHS09

Signal Word: Danger

UN No.: 1500

IMCO Class No.: 5.1,6.1

Packing Group: III

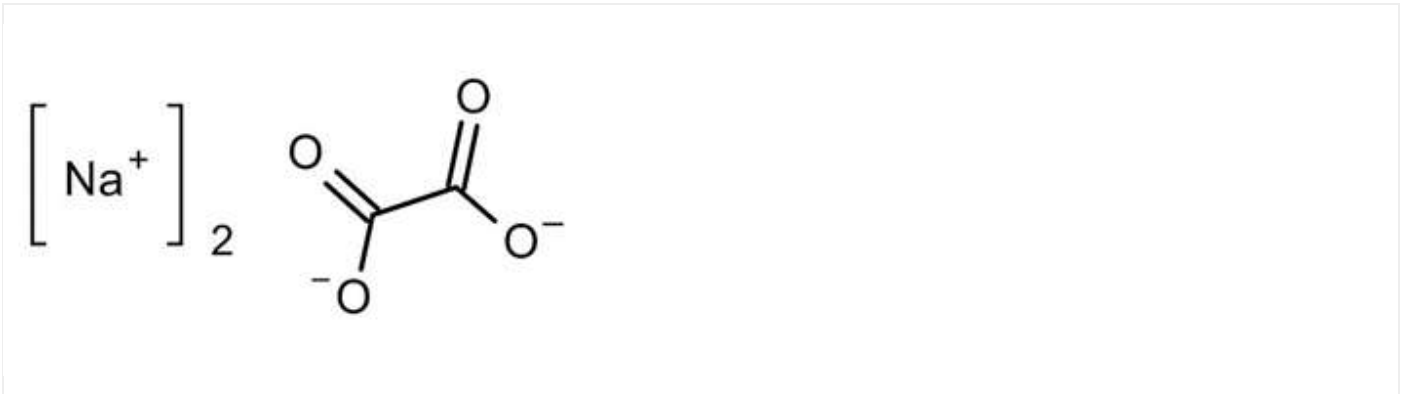
Hazardous Statement: H272-H301-H400

Precaution Statement: P220-P273-P301 + P310

SODIUM OXALATE 99.8% AR

Ethanedioic acid sodium salt; Oxalic acid disodium salt

Product Code.	02472	Grade	AR
Purity	99.8%	CAS No.	62-76-0
Molecular Formula	C2Na2O4	Molecular Weight	134.00
H.S.Code	2917.11900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	7	Melting point/ Freezing point [°C]	250 °C	Density [g/cm3]	2.34
Solubility in water [% weight]	3.7g/100g water @ 200C				

Packaging

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Specification

Appearance	A white crystalline powder
Assay	Min 99.8%
pH (3% solution in water)	7.5 - 8.5
Chloride (Cl)	Max 0.002%
Sulphate (SO4)	Max 0.002%
Total nitrogen (N)	Max 0.001%

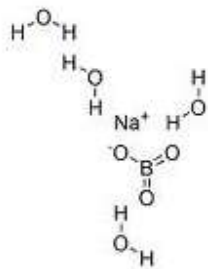
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.0005%
Potassium (K)	Max 0.005%
Loss on drying (at 105°C)	Max 1.0%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H312 Precaution Statement: P280

SODIUM PERBORATE TETRAHYDRATE 96% EXTRAPURE

Product Code.	02475	Grade	Extrapure
Purity	96%	CAS No.	10486-00-7
Molecular Formula	NaBO3.4H2O	Molecular Weight	153.86
H.S.Code	2840.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Whie crystalline	Odour	Odorless
pH value	10 - 10.4	Melting point/ Freezing point [°C]	60 °C		

Packaging

Specification

Appearance	White crystalline or granular powder.
Assay	Min 96.0%
Identity	Passes test
Chloride (Cl)	Max 0.033%
Sulphate (SO4)	Max 1.2%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 1479

IMCO Class No.: 5.1

Packing Group: III

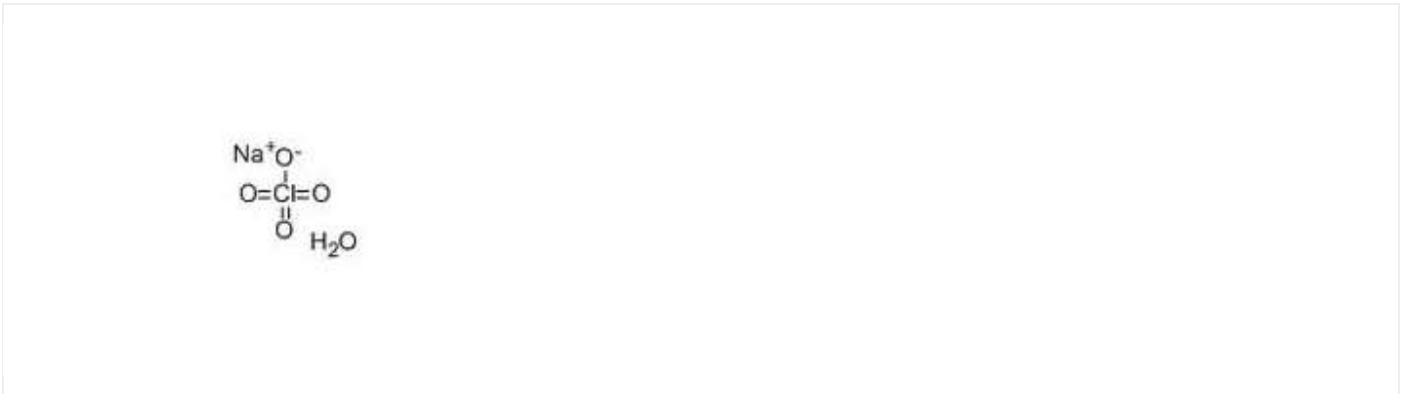
Hazardous Statement: H272-H302-H318-H335-H360Df

Precaution Statement: P201-P220-P261-P280-P305 + P351 + P338-P308 + P313

SODIUM PERCHLORATE MONOHYDRATE 98% AR

Hyperchloric acid sodium salt

Product Code.	02476	Grade	
Purity	98%	CAS No.	7/3/7791
Molecular Formula	NaClO4.H2O	Molecular Weight	140.46
H.S.Code	2829.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	4.5 - 7.0	Melting point/ Freezing point [°C]	130°C	Density [g/cm3]	2.02
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	Colorless crystals
Assay	98 - 102%
pH (5% solution in water)	6.0 - 8.0
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.003%
Sulphate (SO4)	Max 0.002%
Iron (Fe)	Max 0.0005%

Heavy metal (as Pb)	Max 0.0005%
Calcium (Ca)	Max 0.02%
Potassium (K)	Max 0.05%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07 Signal Word: Danger UN No.: 1502 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H271-H302 Precaution Statement: P220

SODIUM PERSULPHATE 95% EXTRAPURE

Sodium peroxodisulfate

Product Code.	02478	Grade	Extrapure
Purity	95%	CAS No.	7775-27-1
Molecular Formula	Na2S2O8	Molecular Weight	238.09
H.S.Code	2833.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.5 - 4.0	Melting point/ Freezing point [°C]	180°C	Density [g/cm3]	2.4
Solubility in water [% weight]	238.1 g/l at 20 °C - completely soluble				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 95%
Chloride (Cl)	Max 0.05%
Ammonium (NH4)	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07, GHS08

Signal Word: Danger

UN No.: 1505

IMCO Class No.: 5.1

Packing Group: III

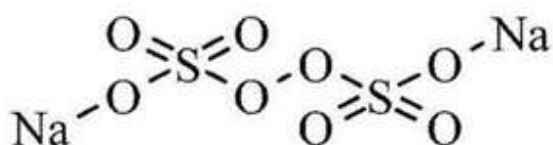
Hazardous Statement: H272-H302-H315-H317-H319-H334-H335

Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

SODIUM PERSULPHATE 99% AR

Etching of printed circuits Oxidising agent. Reagent for the TOC determination. Sodium peroxodisulfate

Product Code.	02479	Grade	AR
Purity	99%	CAS No.	7775-27-1
Molecular Formula	Na ₂ S ₂ O ₈	Molecular Weight	238.09
H.S.Code	2833.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.5 - 4.0	Melting point/ Freezing point [°C]	180°C	Density [g/cm ³]	2.4
Solubility in water [% weight]	238.1 g/l at 20 °C - completely soluble				

Packaging

Specification

Appearance	White crystalline powder
Assay	Min 99%
Chloride (Cl)	Max 0.01%
Calcium (Ca)	Max 0.005%
Cadmium (Cd)	Max 0.005%
Cobalt (Co)	Max 0.005%

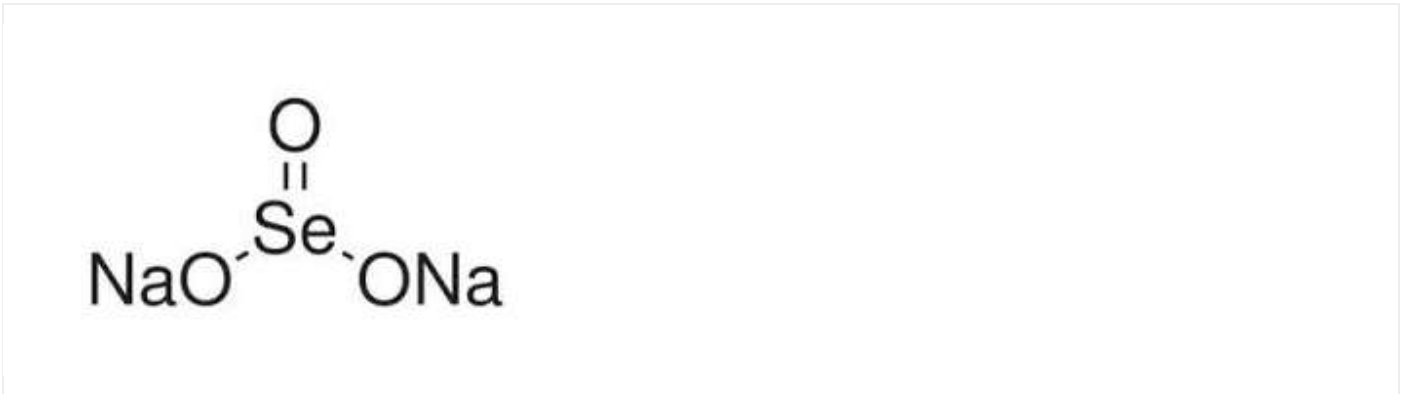
Copper (Cu)	Max 0.005%
Iron (Fe)	Max 0.005%
Potassium (K)	Max 0.01%
Nickel (Ni)	Max 0.005%
Heavy metal (as Pb)	Max 0.005%
Zinc (Zn)	Max 0.005%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07, GHS08 Signal Word: Danger UN No.: 1505 IMCO Class No.: 5.1 Packing Group: III Hazardous Statement: H272-H302-H315-H317-H319-H334-H335 Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

SODIUM SELENATE ANHYDROUS 99% AR

Product Code.	02502	Grade	AR
Purity	99%	CAS No.	10102-18-8
Molecular Formula	Na2SeO3	Molecular Weight	173.01
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	> 350 °C	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	White powder
Assay	Min 99%
Chloride (Cl)	Max 0.005%
Sulphate and selenate (as SO4)	Max 0.005%
Nitrogen compounds (as N)	Max 0.005%
Iron (Fe)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS09

Signal Word: Danger

UN No.: 2630

IMCO Class No.: 6.1

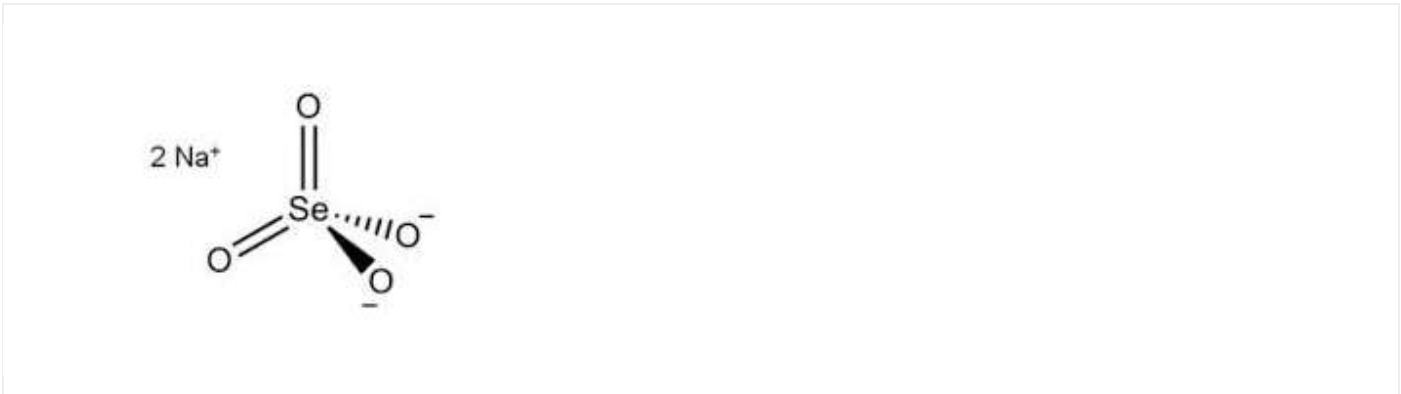
Packing Group: I

Hazardous Statement: H300-H317-H331-H411

Precaution Statement: P261-P264-P273-P280-P301 + P310-P311

SODIUM SELENATE EXTRA PURE

Product Code.	02501	Grade	
Purity	98%	CAS No.	13410-01-0
Molecular Formula	Na2SeO4	Molecular Weight	189.09
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5.5-7.5	Density [g/cm3]	3.098	Solubility in water [% weight]	Partially soluble in cold water

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99%
pH (5% solution)	6.0 - 8.0
Insoluble matter in water	Max 0.003%
Chloride (Cl)	Max 0.005%
Nitrogen compounds (as N)	Max 0.001%
Sulphate (SO4)	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2630

IMCO Class No.: 6.1

Packing Group: I

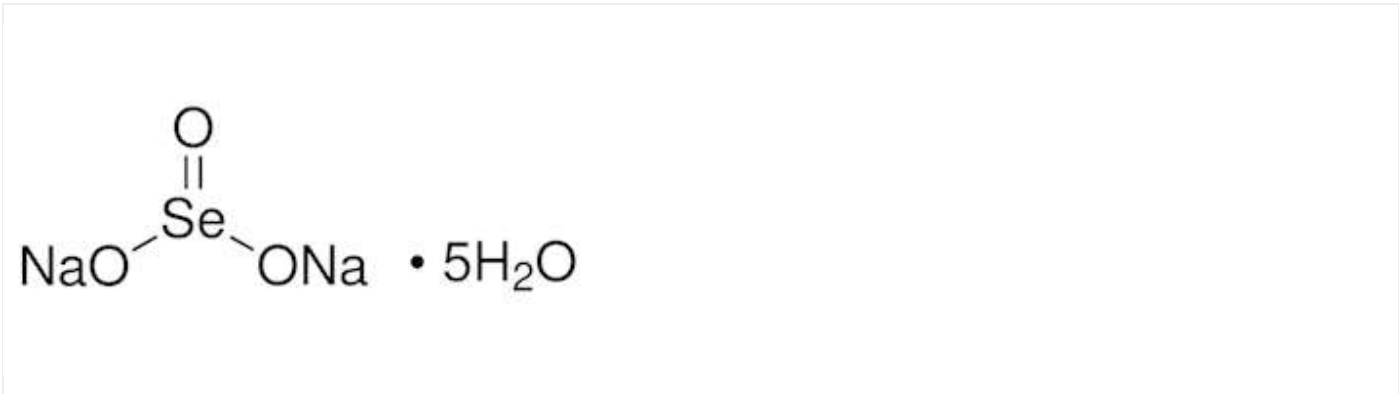
Hazardous Statement: H301-H331-H373-H410

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

SODIUM SELENITE PENTAHYDRATE 98.5% EXTRAPURE

Complies as per BP

Product Code.	02503	Grade	
Purity	98%	CAS No.	26970-82-1
Molecular Formula	Na2SeO3.5H2O	Molecular Weight	263.00
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Packaging

Specification

Appearance	White or almost white, crystalline powder, hygroscopic.
Assay	98-101.5%
Solubility	Freely soluble in water, practically insoluble in ethanol (96 per cent).
Identification (as per BP)	Complies
Appearance of solution	10% solution in water is clear and colorless
pH	9.8-10.8
Chloride (Cl)	Max 0.005%
Sulphate and selenate (as SO4)	Max 0.03%
Iron (Fe)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS09

Signal Word: Danger

UN No.: 2630

IMCO Class No.: 6.1

Packing Group: I

Hazardous Statement: H300-H317-H331-H411

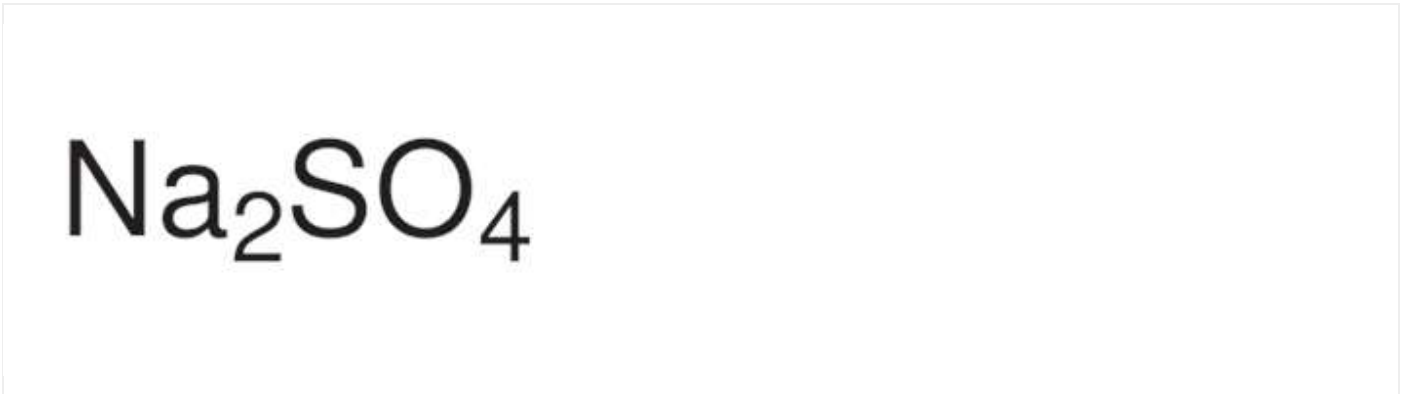
Precaution Statement: P261-P264-P273-P280-P301 + P310-P311

Risk Statement: 23-28-31-43-51/53

Safety Statement: 28.1-36/37-45-61

SODIUM SULPHATE ANHYDROUS 99% AR

Product Code.	02511	Grade	AR
Purity	99%	CAS No.	7757-82-6
Molecular Formula	Na2SO4	Molecular Weight	142.04
H.S.Code	2833.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5.2 - 8 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	884 °C	Boiling point [°C]	1100°C
Density [g/cm3]	2.68	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	A white crystalline powder
Assay (Titration after ion exchange)	Min 99.0%
Insoluble matter	Max 0.01%
pH (5% solution in water; 25°C)	5.2 - 9.2
Chloride (Cl)	Max 0.001%
Phosphate (PO4)	Max 0.001%

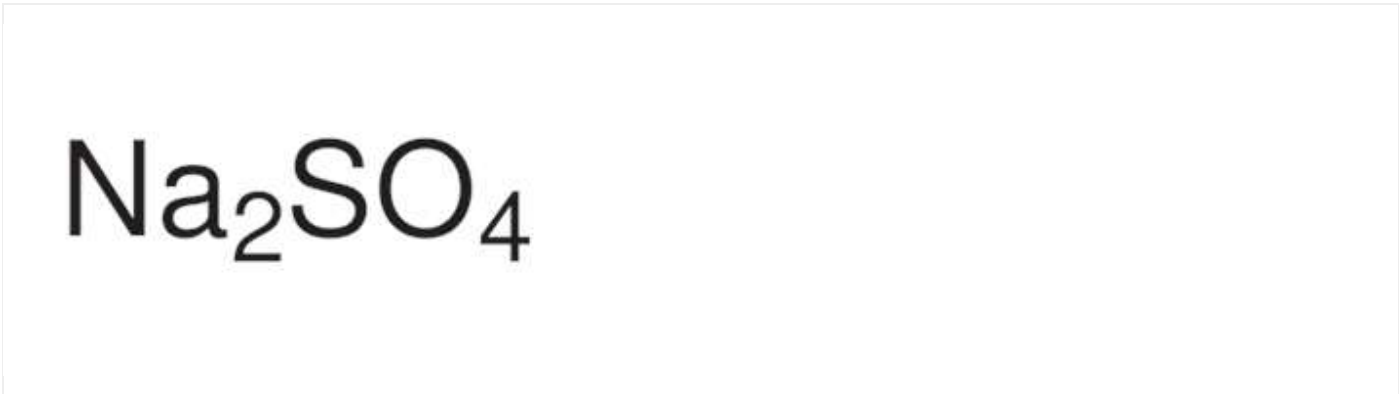
Nitrogen compounds (as N)	Max 0.0005%
Heavy metals (by ICP-OES)	Max 0.0005%
Iron (Fe)	Max 0.001%
Calcium (Ca)	Max 0.01%
Potassium (K)	Max 0.01%
Magnesium (Mg)	Max 0.005%
Loss on ignition (at 800°C)	Max 0.5%

Safety Information and Hazard Symbols

SODIUM SULPHATE ANHYDROUS 99% EXTRAPURE

Confirming to BP, USP Thenardite

Product Code.	02510	Grade	Extrapure
Purity	99%	CAS No.	7757-82-6
Molecular Formula	Na2SO4	Molecular Weight	142.04
H.S.Code	2833.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5.2 - 8 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	884 °C	Boiling point [°C]	1100°C
Density [g/cm3]	2.68	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

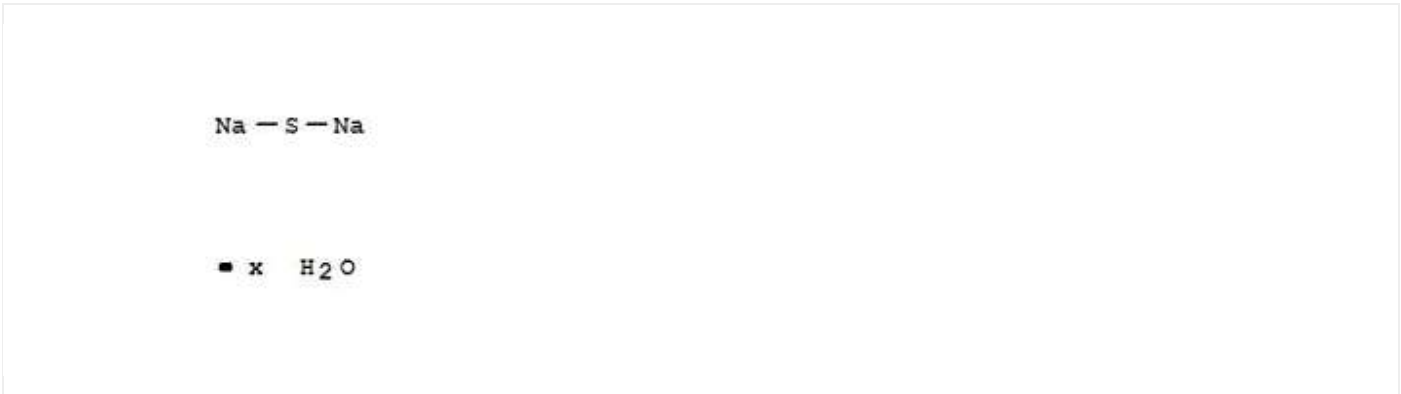
Appearance	A white crystalline powder
Assay (ionsensitive electrode)	99.0 - 100.5%
Identity	Passes test
Appearance of solution	Passes test
Acidity or alkalinity	Passes test
pH (5% solution in water)	5.2 - 8.0

Chloride (Cl)	Max 0.002%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0003%
Calcium (Ca)	Max 0.005%
Iron (Fe)	Max 0.001%
Magnesium (Mg)	Max 0.001%
Loss on drying (at 130°C)	Max 0.5%

Safety Information and Hazard Symbols

SODIUM SULPHIDE 60% AR

Product Code.	02514	Grade	
Purity	60%	CAS No.	27610-45-3
Molecular Formula	Na2S.xH2O	Molecular Weight	0.00
H.S.Code	2830.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow	Density [g/cm3]	1.86
Solubility in water [% weight]	Soluble in water				

Specification

Appearance	Yellow coloured flakes (on storage become brown or orange)
Assay (as Na2S)	About 60%
Sulphite and thiosulphate (as SO2)	Max. 1%

Safety Information and Hazard Symbols







Symbol: GHS05, GHS06, GHS09

Signal Word: Danger

UN No.: 1849

IMCO Class No.: 8

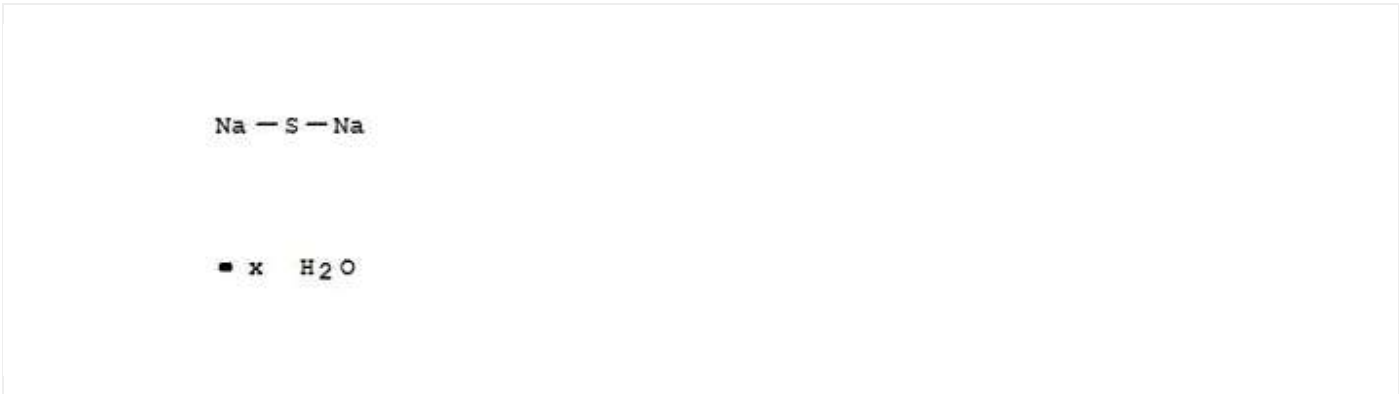
Packing Group: II

Hazardous Statement: H290-H301-H314-H400

Precaution Statement: P273-P280-P301 + P310-P305 + P351 + P338-P310

SODIUM SULPHIDE FLAKES 60% EXTRAPURE (IRON FREE)

Product Code.	02513	Grade	
Purity		CAS No.	27610-45-3
Molecular Formula	Na2S.xH2O	Molecular Weight	78.04
H.S.Code	2830.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow	Density [g/cm3]	1.86
Solubility in water [% weight]	Soluble in water				

Specification

Appearance	Yellow coloured flakes
Assay (as Na2S)	Min. 60%

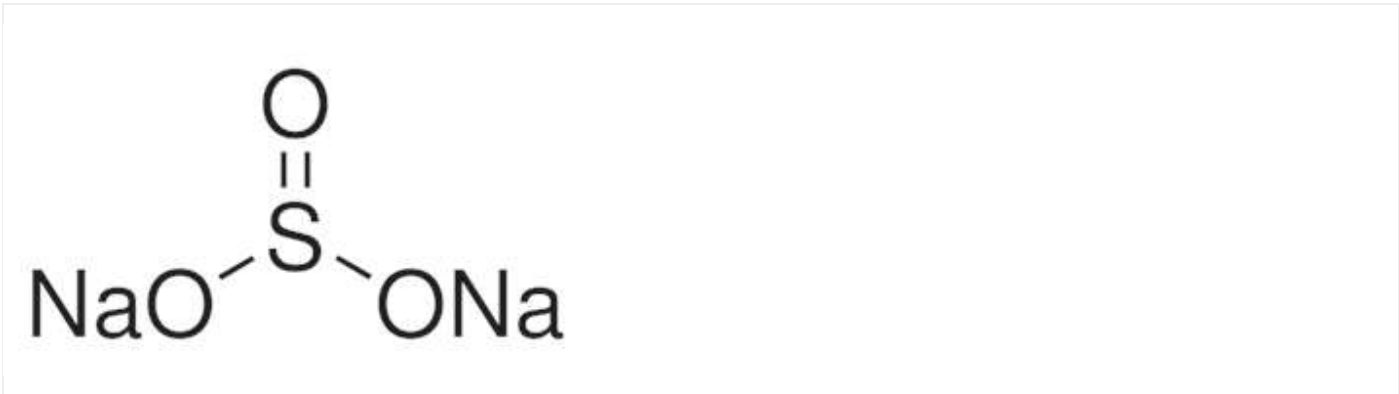
Safety Information and Hazard Symbols

  
Symbol: GHS05, GHS06, GHS09 Signal Word: Danger UN No.: 1849 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H290-H301-H314-H400 Precaution Statement: P273-P280-P301 + P310-P305 + P351 + P338-P310

SODIUM SULPHITE ANHYDROUS 95% EXTRAPURE

Confirming to BP disodium sulphite, Sulfurous acid disodium salt

Product Code.	02515	Grade	
Purity	95%	CAS No.	7757-83-7
Molecular Formula	Na2SO3	Molecular Weight	126.04
H.S.Code	2832.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9.0 - 10.5 at 126 g/l at 25 °C	Melting point/ Freezing point [°C]	500°C	Density [g/cm3]	2.63
Solubility in water [% weight]	126 g/l at 20 °C - completely soluble				

Packaging

Specification

Appearance	White crystalline powder
Assay (iodometric)	95 - 100.5%
SO2	Min 48%
Identity	Passes test
Appearance of solution	Passes test
Thiosulphate (S2O3)	Max 0.04%

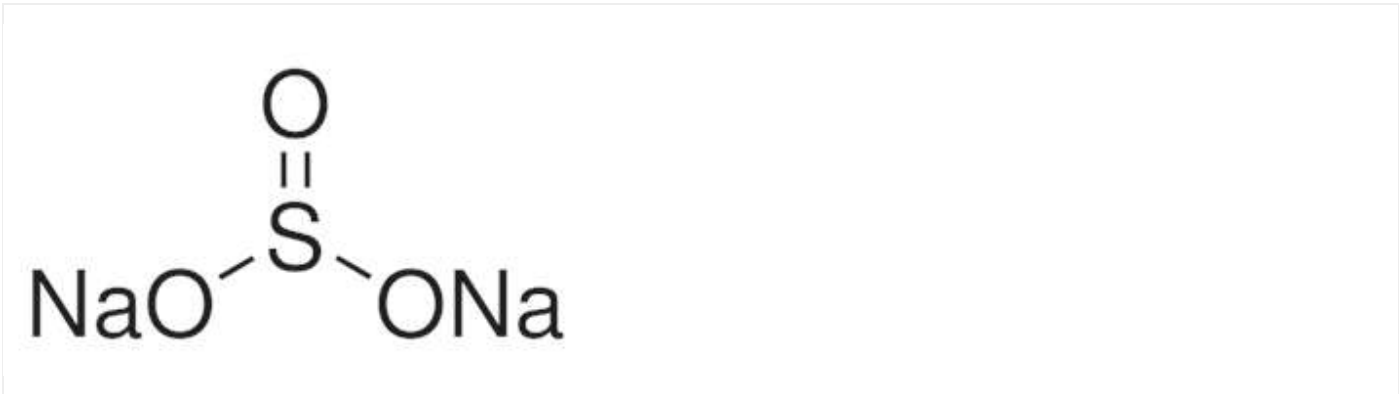
Arsenic (As)	Max 0.0002%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Copper (Cu)	Max 0.0005%
Selenium (Se)	Max 0.001%
Zinc (Zn)	Max 0.0025%

Safety Information and Hazard Symbols

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SODIUM SULPHITE ANHYDROUS 98% AR

Product Code.	02516	Grade	AR
Purity	98%	CAS No.	7757-83-7
Molecular Formula	Na2SO3	Molecular Weight	126.04
H.S.Code	2832.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9.0 - 10.5 at 126 g/l at 25 °C	Melting point/ Freezing point [°C]	500°C	Density [g/cm3]	2.63
Solubility in water [% weight]	126 g/l at 20 °C - completely soluble				

Packaging

Specification

Appearance	White crystalline powder
Assay (iodometric)	Min 98.0%
Insoluble matter in water	Max 0.005%
Acidity	Passes test
Alkalinity	Max 0.03 meq/g
Chloride (Cl)	Max 0.02%

Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.0005%

Safety Information and Hazard Symbols

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SODIUM THIOCYANATE 98% AR

Sodium isothiocyanate; Sodium rhodanate; Sodium rhodanide; Sodium sulfocyanate

Product Code.	02524	Grade	
Purity	98%	CAS No.	540-72-7
Molecular Formula	NaSCN	Molecular Weight	81.07
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	287 °C	Density [g/cm3]	1	Solubility in water [% weight]	139g/100 cc water @ 210C

Packaging

Specification

Appearance	A white crystalline powder
Assay	Min. 98.0%
Insoluble matter	Max 0.005%
Carbonate	Max 0.2%
Sulphide (S)	Max 0.001%
Chloride (Cl)	Max 0.01%
Iron (Fe)	Max 0.0002%

Heavy metal (as Pb)	Max 0.0005%
Ammonia (NH4)	Max 0.002%
Sulphate (SO4)	Max 0.01%

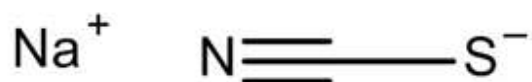
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H312-H332-H412 Precaution Statement: P273-P280

SODIUM THIOCYANATE 98% EXTRAPURE

For determination of Nb in Steel. Sodium isothiocyanate; Sodium rhodanate; Sodium rhodanide; Sodium sulfocyanate

Product Code.	02523	Grade	Extrapure
Purity	98%	CAS No.	540-72-7
Molecular Formula	NaSCN	Molecular Weight	81.07
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	287 °C	Density [g/cm3]	1	Solubility in water [% weight]	139g/100 cc water @ 210C

Specification

Appearance	A white crystalline powder
Assay	Min 98.0%
Chloride (Cl)	Max 0.02%
Sulphate (SO4)	Max 0.01%
Iodine adsorption	Max 1 ml N%

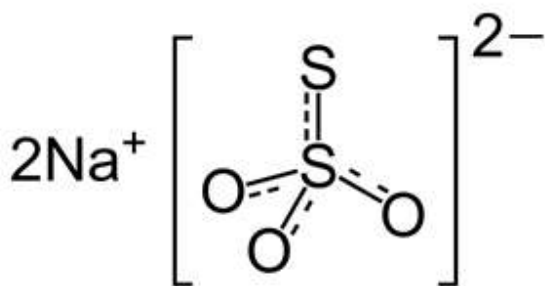
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H312-H332-H412 Precaution Statement: P273-P280

SODIUM THIOSULPHATE ANHYDROUS 98% AR

Sodium hyposulfite

Product Code.	02529	Grade	For Molecular Biology)
Purity	98%	CAS No.	7772-98-7
Molecular Formula	Na ₂ S ₂ O ₃	Molecular Weight	158.10
H.S.Code	2832.30100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	6.5 - 8	Melting point/ Freezing point [°C]	>100°C	Density [g/cm ³]	1.66
Solubility in water [% weight]	50 g/100 g cold water				

Specification

Appearance	White crystalline powder
Assay	Min 98%
Calcium (Ca)	Max 0.01%
Heavy metal (as Pb)	Max 0.001%
Insoluble matter	Max 0.01%
Sulphide (S)	Max 0.0001%
pH (5% solution in water)	6.0 - 8.5%

Sodium hyposulfite pentahydrate

$$\text{NaO}-\text{S}(\text{O})_2-\text{ONa} \cdot 5\text{H}_2\text{O}$$

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	6 - 8.5	Melting point/ Freezing point [°C]	48°C	Boiling point [°C]	> 100°C
Density [g/cm3]	1.75	Solubility in water [% weight]	79g/100 ml water @ 40C		

Appearance	Large, colourless crystals or coarse crystalline powder
Assay (iodometric)	99.5 - 101.0%
Insoluble matter (10% in water)	Max. 0.005%
pH (5% solution in water; 25°C)	6.0 - 8.4
Nitrogen compounds (as N)	Max. 0.002%
Chloride (Cl)	Max. 0.02%

Heavy metal (as Pb)	Max. 0.001%
Sulphate and Sulphite (as SO4)	Max. 0.1%
Sulphide (S)	Passes test

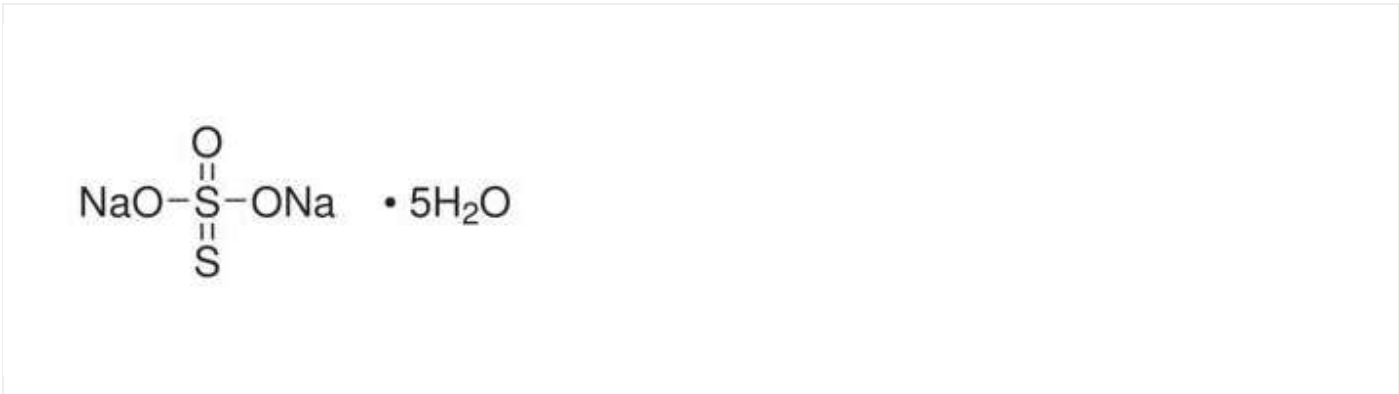
Safety Information and Hazard Symbols

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SODIUM THIOSULPHATE PENTAHYDRATE 99% EXTRAPURE

Confirming to BP,USP. Sodium hyposulfite pentahydrate

Product Code.	02527	Grade	Extrapure
Purity	99%	CAS No.	10102-17-7
Molecular Formula	Na2S2O3.5H2O	Molecular Weight	248.17
H.S.Code	2832.30100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	6 - 8.5	Melting point/ Freezing point [°C]	48°C	Boiling point [°C]	> 100°C
Density [g/cm3]	1.75	Solubility in water [% weight]	79g/100 ml water @ 40C		

Packaging

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Specification

Appearance	Large, colorless crystals or white coarse crystalline powder
Assay (iodometric)	99-100.5%
Identity	Passes test
Appearance of solution	Dissolve 10.0 g in 50 ml of distilled water R, add 1 ml of 0.1 M sodium hydroxide and dilute to 100 ml with the same solvent. Clear & colourless
pH (10% solution in water)	6.0 - 8.4

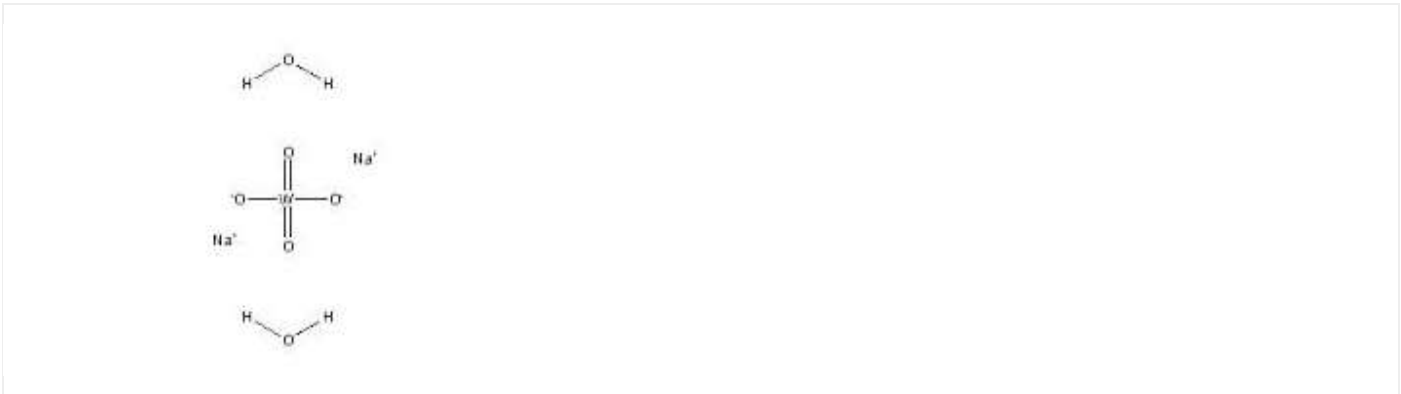
Chloride (Cl)	Max 0.05%
Sulphate and Sulphite (as SO4)	Max 0.2%
Sulphide (S)	Passes test
Heavy metal (as Pb)	Max 0.001%
Calcium (Ca)	Passes test

Safety Information and Hazard Symbols

SODIUM TUNGSTATE DIHYDRATE 98% EXTRAPURE

Tungstic acid sodium salt dihydrate

Product Code.	02536	Grade	Extrapure
Purity	98%	CAS No.	10213-10-2
Molecular Formula	Na2WO4.2H2O	Molecular Weight	329.86
H.S.Code	2841.80100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9 - 11.5 at 100 g/l at 20 °C	Melting point/ Freezing point [°C]	698 °C	Density [g/cm3]	4.18
Solubility in water [% weight]	730 g/L (20°C)				

Packaging

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Specification

Appearance	White Crystalline Powder
Assay (precipitation titration)	Min 98%
Free alkali (as NaOH)	Max 0.025 meq/g
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.02%
Iron (Fe)	Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS07

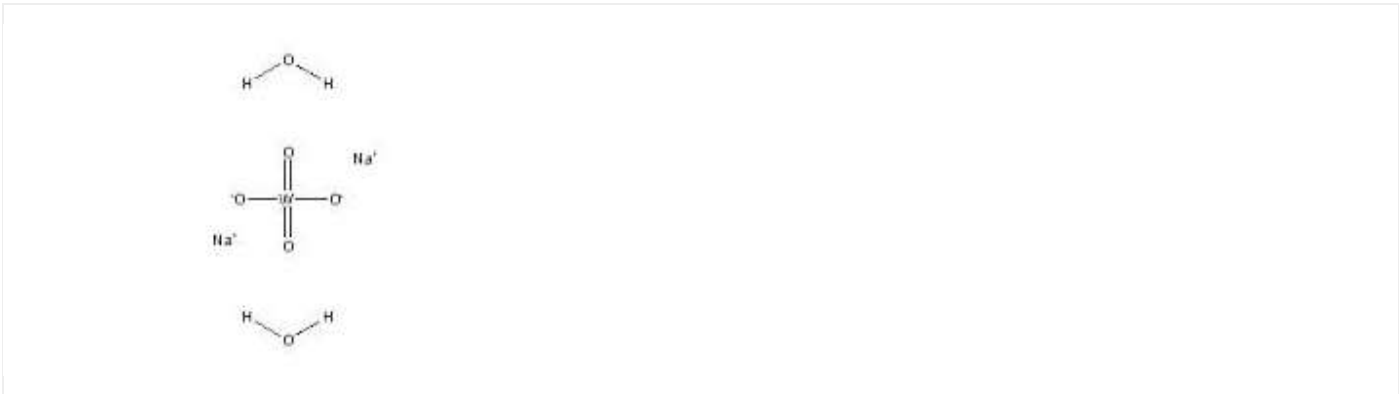
Signal Word: Warning

Hazardous Statement: H302

SODIUM TUNGSTATE DIHYDRATE 99% AR

Reagent for determination of Uric acid. Tungstic acid sodium salt dihydrate

Product Code.	02537	Grade	AR
Purity	99%	CAS No.	10213-10-2
Molecular Formula	Na2WO4.2H2O	Molecular Weight	329.86
H.S.Code	2841.80100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9 - 11.5 at 100 g/l at 20 °C	Melting point/ Freezing point [°C]	698 °C	Density [g/cm3]	4.18
Solubility in water [% weight]	730 g/L (20°C)				

Packaging

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Specification

Appearance	White Crystalline Powder
Assay	99.0 - 101.0%
Insoluble matter	Max 0.01%
Free alkali (as NaOH)	Max 0.02 meq/gm
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%

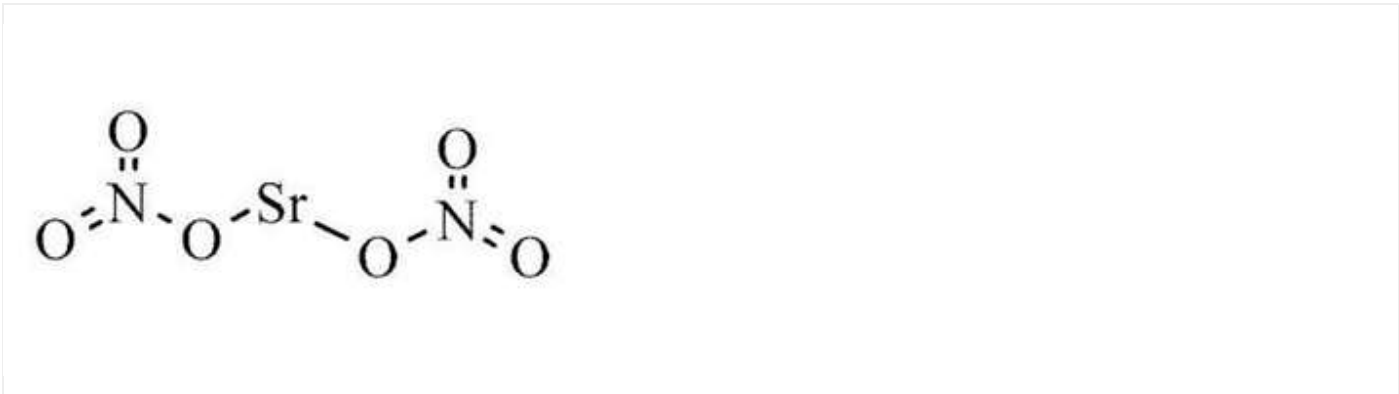
Total nitrogen (N)	Max 0.001%
Heavy metals and iron (as Pb)	Max 0.001%
Molybdenum (Mo)	Max 0.001%
Arsenic (As)	Max 0.0005%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

STRONTIUM NITRATE ANHYDROUS 98% EXTRAPURE

Product Code.	02569	Grade	Extrapure
Purity	98%	CAS No.	10042-76-9
Molecular Formula	Sr(NO3)2	Molecular Weight	211.63
H.S.Code	2834.29100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5.0 - 7.0	Melting point/ Freezing point [°C]	570 °C	Density [g/cm3]	2.98
Solubility in water [% weight]	71 g/100 ml water at 180C				

Packaging

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Specification

Appearance	White crystalline powder
Assay (complexometric)	Min 98.0%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.02%
Iron (Fe)	Max 0.005%
Lead (Pb)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07

Signal Word: Warning

UN No.: 1507

IMCO Class No.: 5.1

Packing Group: III

Hazardous Statement: H272-H302-H315-H319-H335

Precaution Statement: P220-P261-P305 + P351 + P338

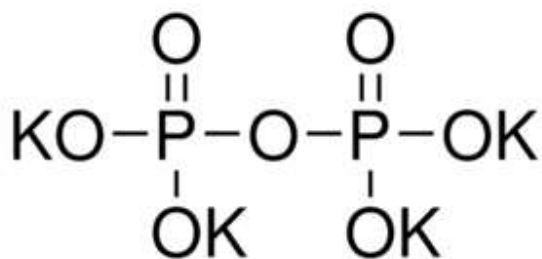
Risk Statement: 8-22-36/37/38

Safety Statement: 26

TETRA-POTASSIUM PYROPHOSPHATE 95% EXTRAPURE

Potassium diphosphate tetrabasic; Tetrapotassium diphosphate; Potassium pyrophosphate

Product Code.	02170	Grade	Extrapure
Purity	95%	CAS No.	7320-34-5
Molecular Formula	K ₄ P ₂ O ₇	Molecular Weight	330.34
H.S.Code	2835.39000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	10	Melting point/ Freezing point [°C]	1090°C	Density [g/cm ³]	2.33
Solubility in water [% weight]	Soluble in water				

Specification

Appearance	White crystalline powder
Assay	Min 95.0%
pH (1% solution in water)	10.0 - 10.7
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.005%

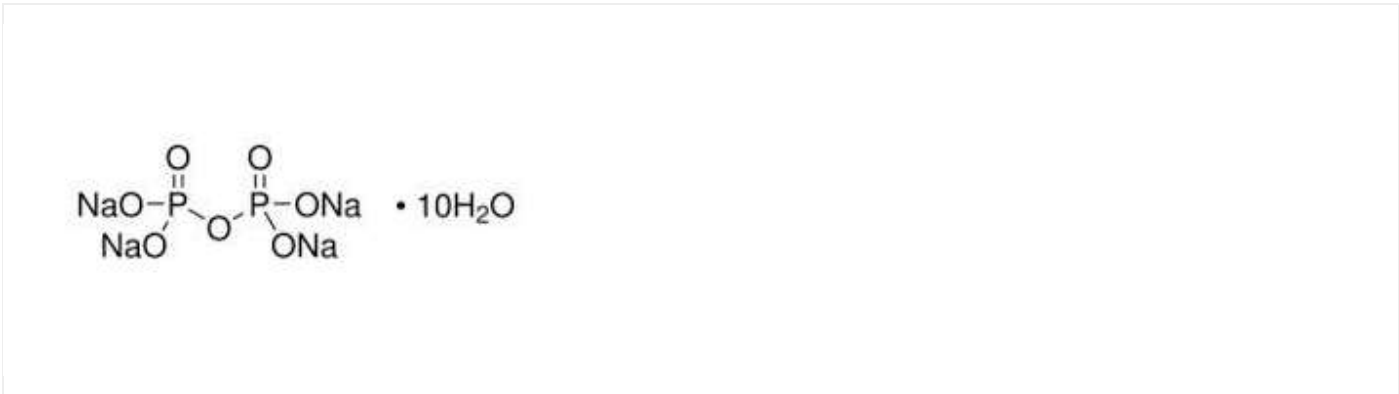
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319 Precaution Statement: P305 + P351 + P338

TETRA-SODIUM PYROPHOSPHATE (DECAHYDRATE)

Tetrasodium diphosphate

Product Code.	02495	Grade	
Purity	99%	CAS No.	13472-36-1
Molecular Formula	Na4P2O7.10H2O	Molecular Weight	446.06
H.S.Code	2835.39000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless	Odour	Odorless
pH value	10.3	Melting point/ Freezing point [°C]	79.5	Density [g/cm3]	1.82
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	Colorless crystals
Assay (acidimetric; as Na4P2O7.10H2O)	99 - 103%
pH (5% solution in water; 25°C)	9.5 - 10.5
Insoluble matter	Max 0.01%
Chloride (Cl)	Max 0.002%
Sulphate (SO4)	Max 0.005%
Niitrogen compounds (N)	Max 0.001%

Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%

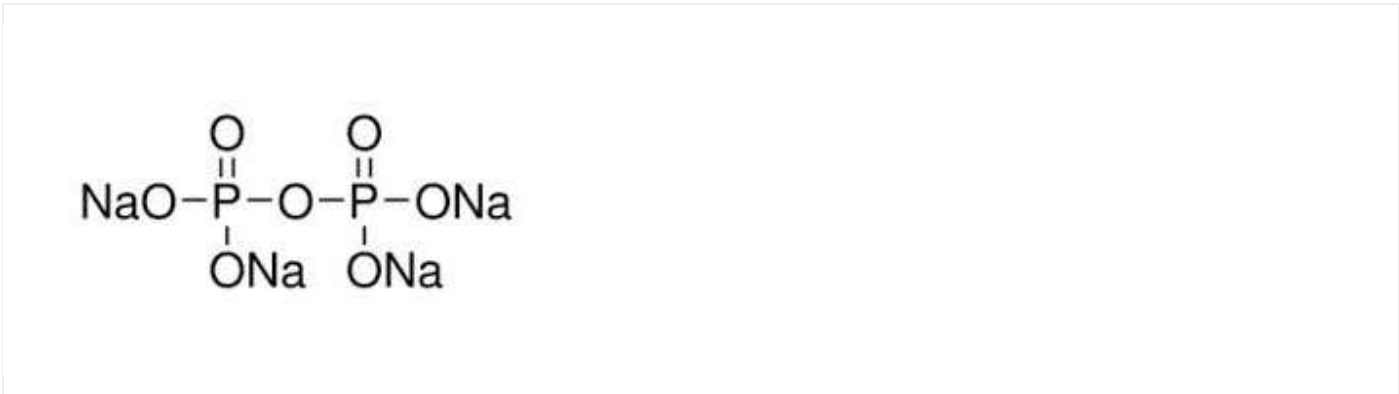
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

TETRA-SODIUM PYROPHOSPHATE ANHYDROUS 97.5% EXTRAPURE

Tetrasodium diphosphate

Product Code.	02494	Grade	
Purity	97.5%	CAS No.	7722-88-5
Molecular Formula	Na4P2O7	Molecular Weight	265.90
H.S.Code	2835.39000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	10.3	Melting point/ Freezing point [°C]	94°C	Density [g/cm3]	1.82
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	A white crystalline powder
Assay	Min 97.5%
Loss on ignition (at 600°C)	Max 1.0%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.02%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

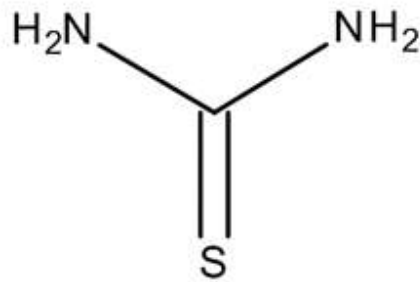
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

THIOUREA 98% EXTRAPURE

Sulfourea; Thiocarbamide

Product Code.	02690	Grade	
Purity	98%	CAS No.	62-56-6
Molecular Formula	CH4N2S	Molecular Weight	76.12
H.S.Code	2930.90100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 7	Melting point/ Freezing point [°C]	170 - 176 °C	Density [g/cm3]	1.045
Solubility in water [% weight]	137 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	-0.92		

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 98%
Sulphated ash	Max 0.1%
Melting point (with decomposition)	174 - 179°C
Water (H2O)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08, GHS09

Signal Word: Warning

UN No.: 3077

IMCO Class No.: 9

Packing Group: III

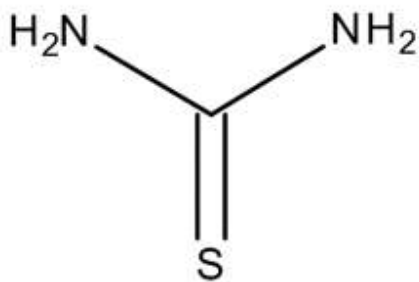
Hazardous Statement: H302-H351-H361d-H411

Precaution Statement: P273-P281

THIOUREA 99% AR

Masking and colorimetric reagent for various metal ions precipitation reagent for lead,cadmium, selenium and tellurium. Sulfourea; Thiocarbamide

Product Code.	02689	Grade	
Purity	99%	CAS No.	62-56-6
Molecular Formula	NH2.CS.NH2	Molecular Weight	76.12
H.S.Code	2930.90100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 7	Melting point/ Freezing point [°C]	170 - 176 °C	Density [g/cm3]	1.045
Solubility in water [% weight]	137 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	-0.92		

Packaging

Specification

Appearance	White crystalline powder
Assay	Min 99%
Melting point	174 - 178 deg C
Insoluble matter in water	Max 0.005%
Sulphated ash	Max 0.05%
Sulphate (SO4)	Max 0.01%

Iron (Fe)	Max 0.0005%
Loss on drying (at 105°C)	Max 0.5%
Sensitivity for Bismuth	Passes test

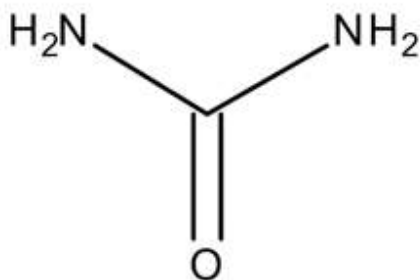
Safety Information and Hazard Symbols


Symbol: GHS07, GHS08, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H351-H361d-H411 Precaution Statement: P273-P281

UREA 99% EXTRAPURE

Carbamide, Carbonyldiamide ; [minimum assay (Kjeldahl) 99%]

Product Code.	02808	Grade	
Purity	99%	CAS No.	57-13-6
Molecular Formula	NH ₂ .CONH ₂	Molecular Weight	60.06
H.S.Code	3102.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	7.5 - 9.5 at 480 g/l at 25 °C
Melting point/ Freezing point [°C]	132 - 135 °C	Vapour pressure [20°C]	0.009 hPa at 20 °C	Vapour density	2.07
Density [g/cm ³]	1.335	Solubility in water [% weight]	480 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-2.59

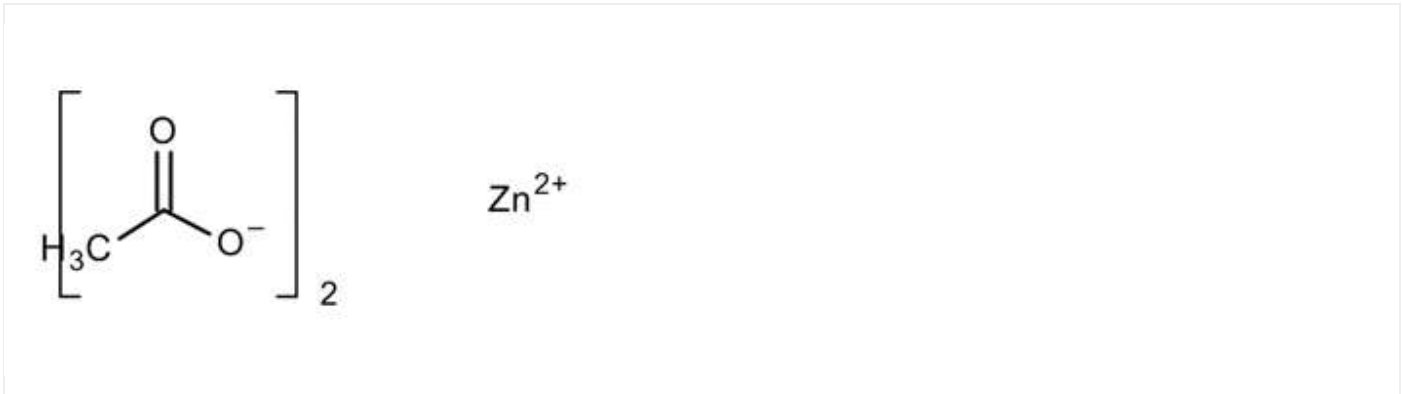
Specification

Appearance	White crystalline powder
Assay	Min 99%
Melting point	131 - 134°C
Sulphated ash	Max 0.1%
Chloride (Cl)	Max 0.002%
Sulphate (SO ₄)	Max 0.05%

ZINC ACETATE DIHYDRATE 98% EXTRAPURE

Acetic acid Zinc salt; Acetic acid, Zinc(II) salt; Dicarbomethoxyzinc; Zinc diacetate

Product Code.	02869	Grade	Extrapure
Purity	98%	CAS No.	5970-45-6
Molecular Formula	(CH3COO)2Zn.2H2O	Molecular Weight	219.50
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Acetic acid odour
pH value	6 - 8 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	237 °C	Density [g/cm3]	1.84
Solubility in water [% weight]	430 g/l at 20 °C				

Packaging

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Specification

Appearance	White crystalline powder with faint odor of acetic acid
Assay	Min 98.0%
pH (5% solution in water)	6.0 - 8.0
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%
Arsenic (As)	Max 0.0003%

Lead (Pb)	Max 0.002%
Alkaline metal	Max 0.2%

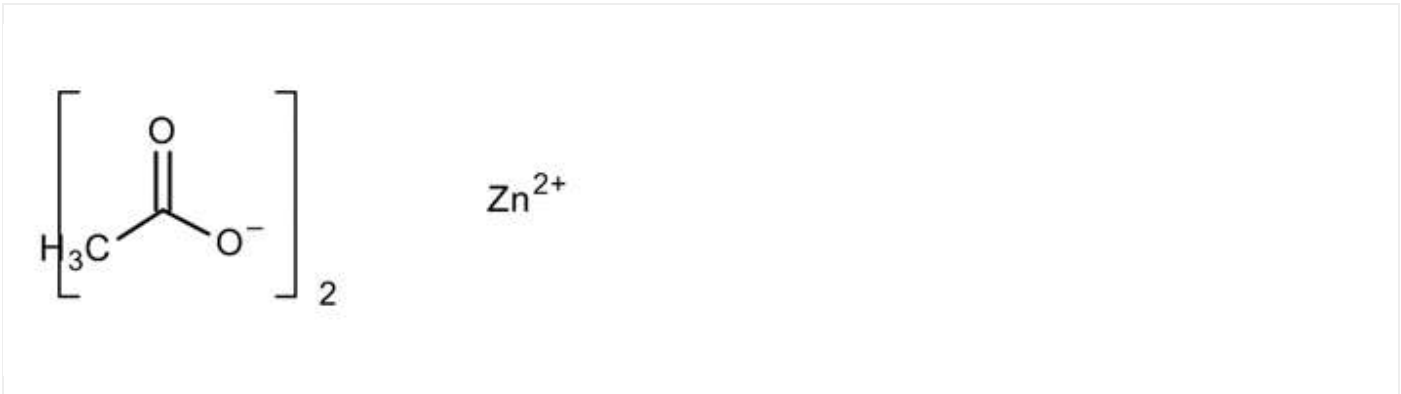
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H319-H400 Precaution Statement: P273-P305 + P351 + P338

ZINC ACETATE DIHYDRATE 99.5% AR

Acetic acid Zinc salt; Acetic acid, Zinc(II) salt; Dicarbomethoxyzinc; Zinc diacetate

Product Code.	02870	Grade	
Purity	99.5%	CAS No.	5970-45-6
Molecular Formula	(CH3.COO)2Zn.2H2O	Molecular Weight	219.50
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Acetic acid odour
pH value	6 - 8 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	237 °C	Density [g/cm3]	1.84
Solubility in water [% weight]	430 g/l at 20 °C				

Packaging

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Specification

Appearance	White crystalline powder with faint odor of acetic acid
Assay	Min 99.5%
Insoluble matter	Max 0.003%
Chloride (Cl)	Max 0.001%
Nitrogen compounds (as N)	Max 0.002%
Sulphate (SO4)	Max 0.005%

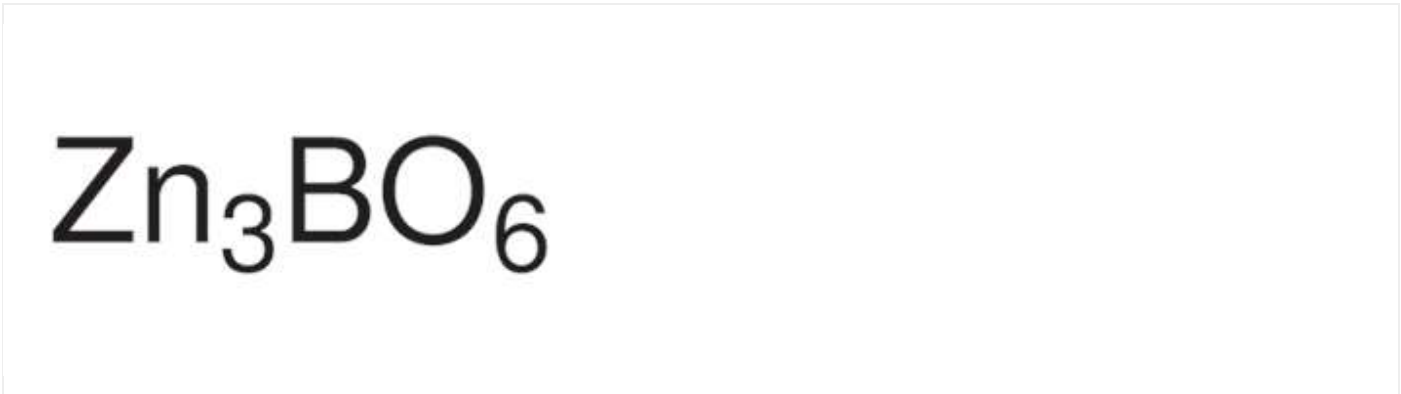
Cadmium (Cd)	Max 0.0005%
Calcium (Ca)	Max 0.001%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Sodium (Na)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H319-H400 Precaution Statement: P273-P305 + P351 + P338

ZINC BORATE EXTRAPURE

Product Code.	02871	Grade	
Purity		CAS No.	10361-94-1
Molecular Formula	Zn3BO6	Molecular Weight	0.00
H.S.Code	2840.20900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Density [g/cm3]	2.7	Solubility in water [% weight]	Insoluble in water		

Specification

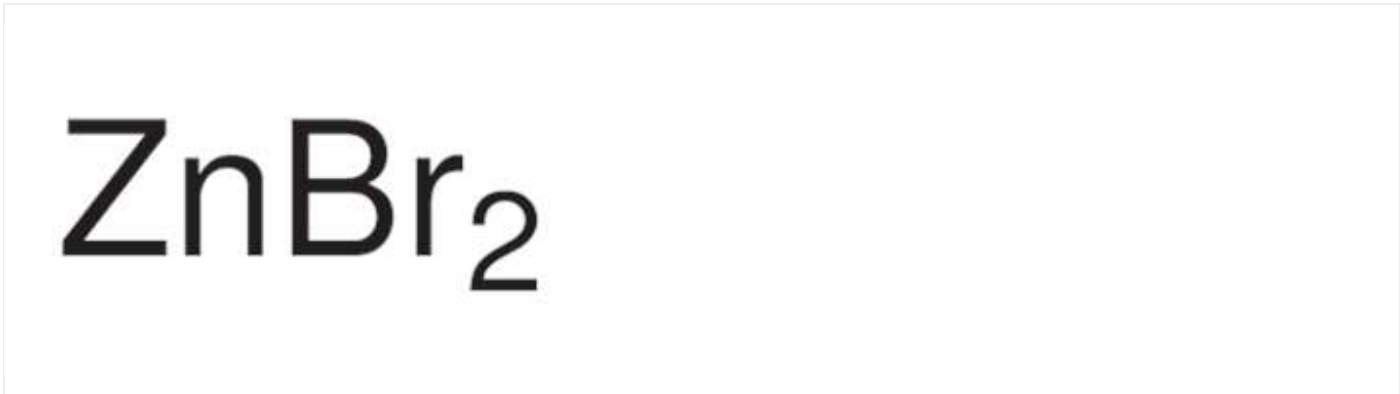
Appearance	White amorphous powder
Zinc oxide (Zno)	Min 37%
Boric oxide (B2O3)	Min 47%
Loss on ignition (at 850°C)	14 - 15%

Safety Information and Hazard Symbols


Symbol: GHS09 Signal Word: Warning Hazardous Statement: H410 Precaution Statement: P273-P501

ZINC BROMIDE ANHYDROUS 98% FOR SYNTHESIS
Zinc dibromide; Zinc(II) bromide

Product Code.	02872	Grade	For Synthesis
Purity	98%	CAS No.	7699-45-8
Molecular Formula	ZnBr2	Molecular Weight	225.19
H.S.Code	2827.59900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Cream color	pH value	4 (aqueous solution)
Melting point/ Freezing point [°C]	394 °C	Boiling point [°C]	650 °C	Density [g/cm3]	4.5
Solubility in water [% weight]	Complete (100%)				

Specification

Appearance	White crystalline powder
Assay	Min 98.0%
Water (by KF)	Max 2.0%

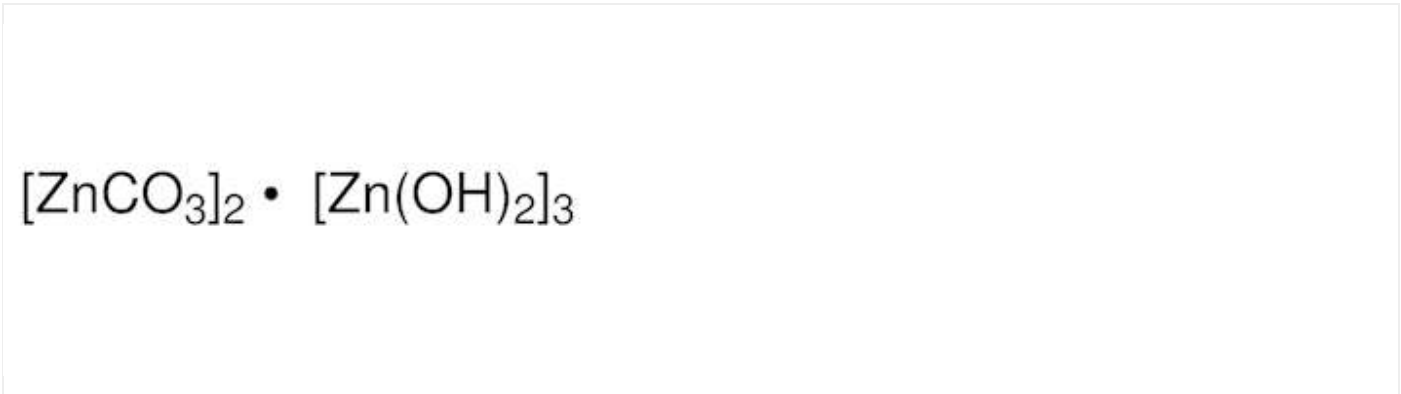
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07, GHS09 Signal Word: Danger UN No.: 3260 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H302-H314-H317-H411 Precaution Statement: P273-P280-P305 + P351 + P338-P310

ZINC CARBONATE BASIC EXTRAPURE

Zinc hydroxide carbonate

Product Code.	02873	Grade	Extrapure
Purity		CAS No.	5263-02-5
Molecular Formula	[ZnCO3]2 [Zn(OH)2]3	Molecular Weight	549.02
H.S.Code	2836.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	9.5 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	300 °C	Decomposition point [°C]	300 °C
Density [g/cm3]	3.5	Solubility in water [% weight]	Insoluble in water		

Packaging

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Specification

Appearance	White powder
Assay (as Zn; complexometric)	Min 47.0%
Chloride (Cl)	Max 0.05%
Sulphate (SO4)	Max 0.5%
Arsenic (As)	Max 0.0005%
Lead (Pb)	Max 0.002%

Calcium (Ca)	Max 0.5%
Iron (Fe)	Max 0.02%
Residue on ignition	70 - 74%

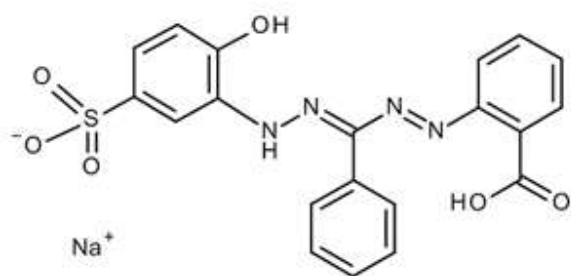
Safety Information and Hazard Symbols

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ZINCON AR FOR PHOTOMETRIC DETERMINATION OF COPPER & ZINC

For photometric determination of Copper and Zinc. 2-[5-(2-Hydroxy-5-sulfophenyl)-3-phenyl-1-formazyl]benzoic acid monosodium salt, 2-Carboxy-2'-hydroxy-5'-sulfoformazyl-benzene monosodium salt; Zincon monosodium salt

Product Code.	02891	Grade	
Purity		CAS No.	62625-22-3
Molecular Formula	C ₂₀ H ₁₅ N ₄ NaO ₆ S.H ₂ O	Molecular Weight	480.43
H.S.Code	2928.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Dark violet powder	Odour	Odorless
Melting point/ Freezing point [°C]	250 - 260 °C				

Specification

Appearance	Dark violet powder
Absorption maxima in NaOH 0.001 mol/L	490 - 495 nm
Absorptivity (A 1%/1cm; at l _{max})	Min 375
Loss on dryig (at 135°C)	Max 10%
Suitability (as complexometric indicator)	Passes test

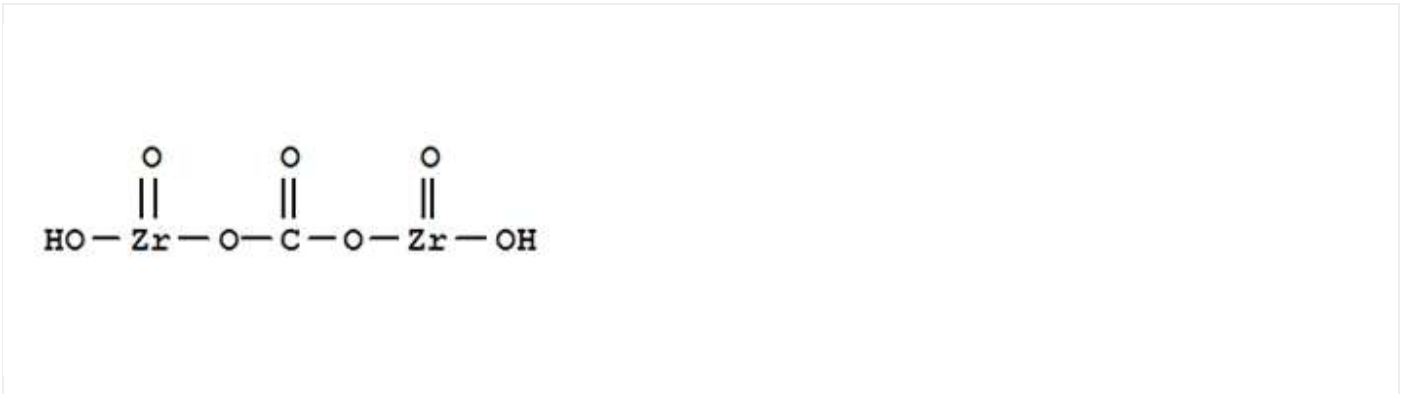
Safety Information and Hazard Symbols

Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319 Precaution Statement: P305 + P351 + P338

ZIRCONIUM (IV) CARBONATE BASIC

Zirconium(IV) carbonate hydroxide oxide ; Zirconium basic carbonate,

Product Code.	02893	Grade	
Purity		CAS No.	57219-64-4
Molecular Formula		Molecular Weight	0.00
H.S.Code	2836.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Melting point/ Freezing point [°C]	135 °C
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

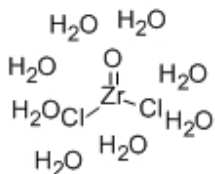
Appearance	A White Powder
Assay (as ZrO2)	Min 40%

Safety Information and Hazard Symbols

ZIRCONIUM OXYCHLORIDE OCTAHYDRATE 98% EXTRAPURE

Zirconium(IV) oxychloride octahydrate; Zirconium(IV) oxide chloride; Zirconyl chloride octahydrate

Product Code.	02897	Grade	
Purity	98%	CAS No.	13520-92-8
Molecular Formula	ZrOCl ₂ ·8H ₂ O	Molecular Weight	322.25
H.S.Code	2827.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	150°C	Boiling point [°C]	210°C	Density [g/cm ³]	1.91
Solubility in water [% weight]	Soluble in water				

Specification

Appearance	Almost white to pale yellow silky powder
Assay	Min 98%
SiO ₂	Max 0.02%
Fe ₂ O ₃	Max 0.007%

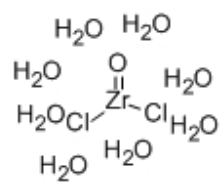
Safety Information and Hazard Symbols

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

ZIRCONIUM OXYCHLORIDE OCTAHYDRATE 99% AR

For fluoride determination. Zirconium(IV) oxychloride octahydrate; Zirconium(IV) oxide chloride; Zirconyl chloride octahydrate

Product Code.	02898	Grade	
Purity	99%	CAS No.	13520-92-8
Molecular Formula	ZrOCl2.8H2O	Molecular Weight	322.25
H.S.Code	2827.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	150°C	Boiling point [°C]	210°C	Density [g/cm3]	1.91
Solubility in water [% weight]	Soluble in water				

Packaging

Specification

Appearance	Almost white to pale yellow silky powder
Assay	Min 99%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Titanium (Ti)	Max 0.01%
Sulphate (SO4)	Max 0.005%

Suitability (as microreagent)

Passes test

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3260

IMCO Class No.: 8

Packing Group: II

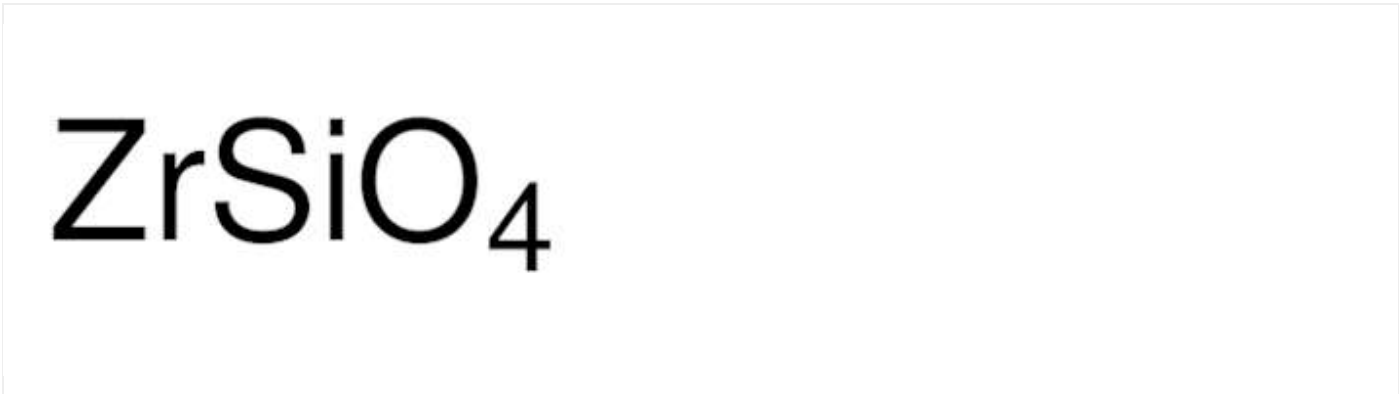
Hazardous Statement: H314

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

ZIRCONIUM SILICATE EXTRAPURE

Zirconium(IV) silicate; Zirconium(IV) silicon oxide ;(zirconium orthosilicate)

Product Code.	02899	Grade	
Purity		CAS No.	10101-52-7
Molecular Formula	ZrSiO4	Molecular Weight	183.30
H.S.Code	2839.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light grey to white	Odour	Odorless
Melting point/ Freezing point [°C]	> 2550 °C	Density [g/cm3]	4.56	Solubility in water [% weight]	Insoluble in water

Packaging

Specification

Appearance	White powder
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Safety Information and Hazard Symbols



Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315-H319-H332-H335
Precaution Statement: P261-P305 + P351 + P338

По вопросам продаж и поддержки обращайтесь:

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