

Четвертичные аммониевые соединения

Технические характеристики

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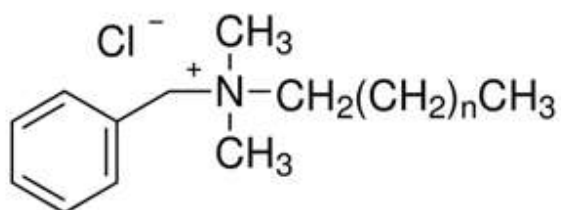
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BENZALKONIUM CHLORIDE 50% W/V AQUEOUS SOLUTION EXTRAPURE

50% aqueous solution Alkyl dimethyl benzyl ammonium chloride

Product Code.	00367	Grade	
Purity	50%	CAS No.	63449-41-2
Molecular Formula	C22H40ClN	Molecular Weight	0.00
H.S.Code	3402.12000	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Pale yellow	pH value	6 - 9
Flash point [°C]	250°C	Boiling point [°C]	100 °C	Vapour pressure [20°C]	130 mPa @ 20°C
Density [g/cm3]	0.98	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	Almost clear, pale yellow colored viscous liquid
Assay	49 - 51% w/v
Amine & amine salts	Max 1.0%
Sulphated ash	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS09, GHS07

Signal Word: Danger

UN No.: 3265

IMCO Class No.: 8

Packing Group: III

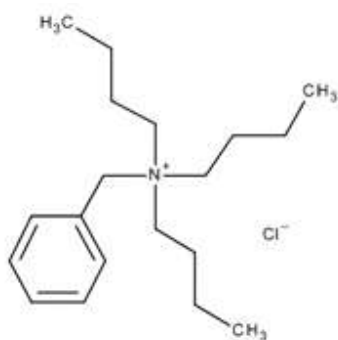
Hazardous Statement: H314-H400-H312-H302

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

BENZYL TRIBUTYL AMMONIUM CHLORIDE 98% FOR SYNTHESIS

Benzyltri-n-butylammonium chloride; BTBAC

Product Code.	00404	Grade	
Purity	98%	CAS No.	23616-79-7
Molecular Formula	C ₁₉ H ₃₄ ClN	Molecular Weight	311.94
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	155 - 163 °C
Solubility in water [% weight]	Freely soluble				

Packaging



Specification

Appearance	A white crystalline powder
Assay (argentometric)	Min 98%
Melting range	155 - 164 deg C
Identity	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 3263

IMCO Class No.: 8

Packing Group: II

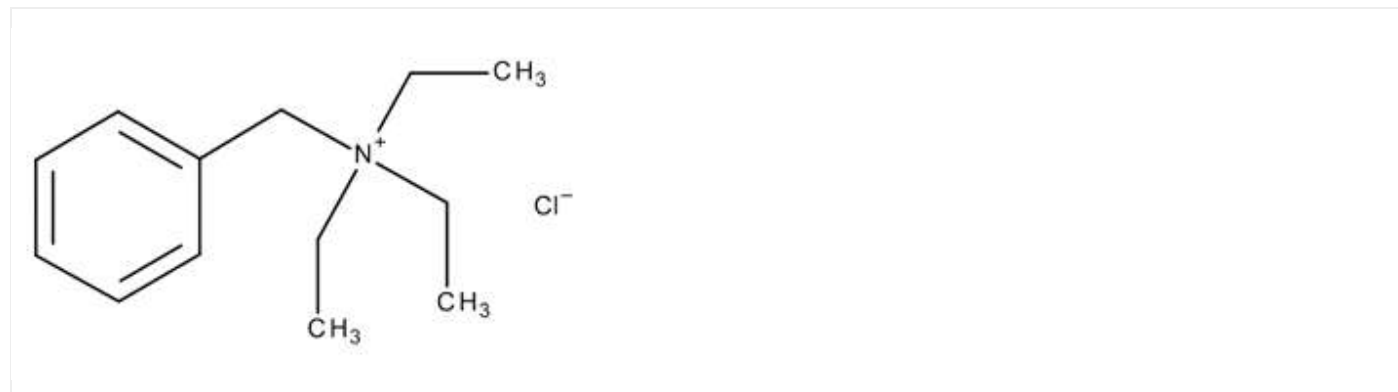
Hazardous Statement: H302-H314

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

BENZYL TRIETHYL AMMONIUM CHLORIDE 98% FOR SYNTHESIS

Versatile phase transfer catalyst. N,N,N'-Triethylbenzenemethanaminium chloride, BTEAC.

Product Code.	00405	Grade	
Purity	98%	CAS No.	56-37-1
Molecular Formula	C ₁₃ H ₂₂ ClN	Molecular Weight	227.78
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystals	pH value	6 - 8
Melting point/ Freezing point [°C]	190 - 192 °C	Decomposition point [°C]	185°C	Flash point [°C]	> 275 °C
Boiling point [°C]	444.8 °C				

Packaging



Specification

Appearance	White crystals
Assay	Min 98%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

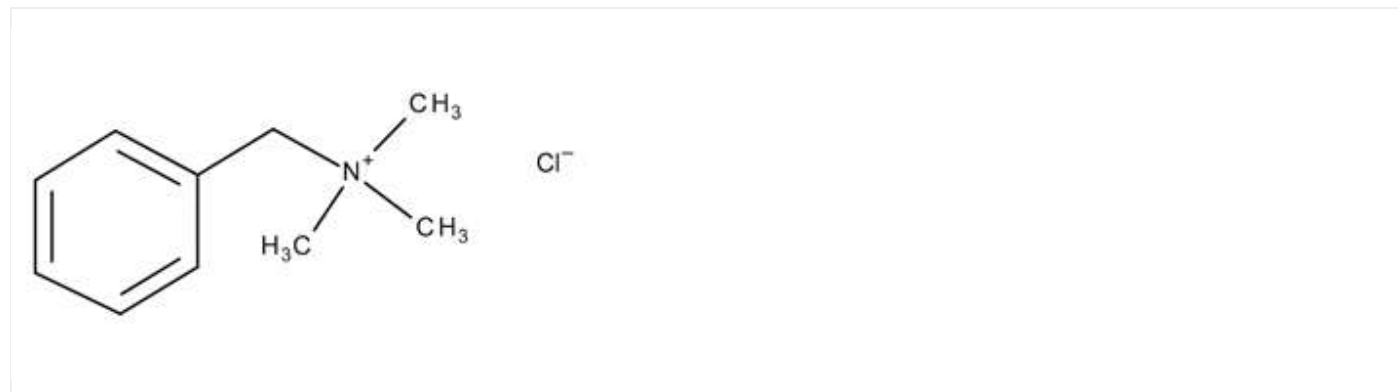
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

BENZYL TRIMETHYL AMMONIUM CHLORIDE 98% FOR SYNTHESIS

Versatile phase transfer catalyst. Trimethylbenzylammonium chloride; BTMAC

Product Code.	00406	Grade	
Purity	98%	CAS No.	56-93-9
Molecular Formula	C ₁₀ H ₁₆ ClN	Molecular Weight	185.70
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint, almond like odor
pH value	6 - 8	Melting point/ Freezing point [°C]	239 °C	Boiling point [°C]	> 105°C
Evaporation rate	<1	Vapour pressure [20°C]	< 0.0001 hPa at 20 °C	Density [g/cm ³]	1.07
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-2.47		

Packaging



Specification

Appearance	Colourless crystals or White crystal or Crystalline powder
Assay	Min 98%

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: III

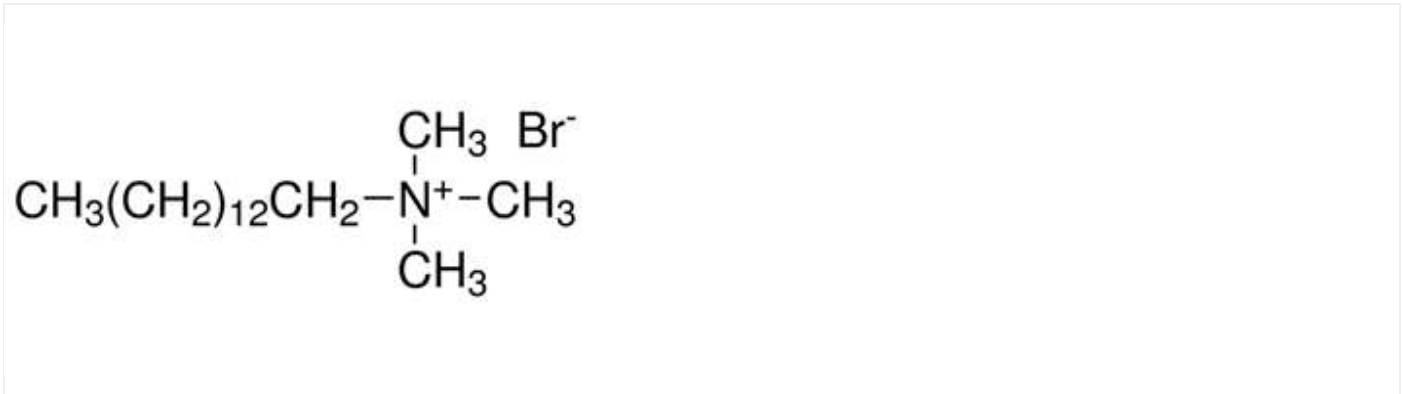
Hazardous Statement: H301-H315-H319

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

CETRIMIDE 96% EXTRAPURE

Conforms to IP, BP Tetradecyltrimethyl Ammonium Bromide ;

Product Code.	00730	Grade	
Purity	96%	CAS No.	1119-97-7
Molecular Formula	C17H38BrN	Molecular Weight	336.39
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Crystalline Soild	Colour	white	Melting point/ Freezing point [°C]	245-250°C
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Packaging

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Specification

Appearance	A white or almost white, voluminous free flowing powder.odour faint and characteristic.
Assay (as C17H38BrN; on anhydrous basis)	96.0% 101.0%
Identification as per BP, IP	To comply the tests
UV absorbance at 260 nm to 280 nm	Max 0.05
Solubility	Freely soluble in water, in ethanol (95%) and in chloroform; practically insoluble in ether
Appearance of solution	2% w/v solution in distilled water is clear and colourless
Acidity or alkalinity	To comply the tests
Amine & amine salts	To comply the tests

Loss on dryig (at 100-105°C; 2 hrs)	Max 2.0%
Sulphated ash	Max 0.5%
Residual solvent (acetone)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS05
 Signal Word: Danger
 UN No.: 3263
 IMCO Class No.: 8
 Packing Group: II
 Hazardous Statement: H314
 Precaution Statement: P280-P301 + P330 + P331-P305 + P351 + P338
 Risk Statement: 34
 Safety Statement: 26-36/37/39-45

MYRISTYLTRIMETHYLAMMONIUM BROMIDE 99%

Product Code.	1774A	Grade	
Purity	99%	CAS No.	1119-97-7
Molecular Formula	C17H36BrN	Molecular Weight	336.39
H.S.Code	2923.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Crystalline Soild	Colour	white	Melting point/ Freezing point [°C]	245-250°C
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Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Crystalline powder
Infrared spectrum	Conforms
Titration Argentometric	98.5 to 101.5 %
Melting point	245°C to 250°C

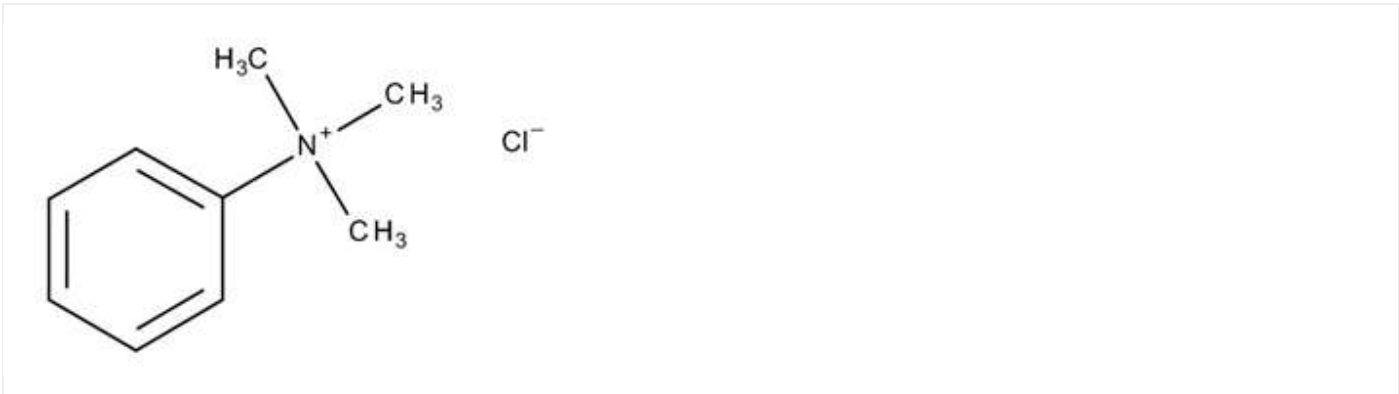
Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3263 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P301 + P330 + P331-P305 + P351 + P338 Risk Statement: 34 Safety Statement: 26-36/37/39-45

PHENYL TRIMETHYL AMMONIUM CHLORIDE 99% FOR SYNTHESIS

Trimethylphenylammonium chloride

Product Code.	01999	Grade	
Purity	99%	CAS No.	138-24-9
Molecular Formula	C9H14ClN	Molecular Weight	171.67
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	4.5
Melting point/ Freezing point [°C]	246 - 248 °C	Auto-ignition temperature [°C]	237°C	Solubility in water [% weight]	Soluble in water
Explosion limits - upper [%]	6%	Explosion limits -lower [%]	1%		

Packaging

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Specification

Appearance	White to gray crystalline powder
Assay (by titration)	Min 99%
Free amine & amine salt	Max 1%
Moisture (by KF)	Max 0.5%
Appearance of solution (10% in water)	Clear and colorless solution
pH (10% solution in water)	4 - 6

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: III

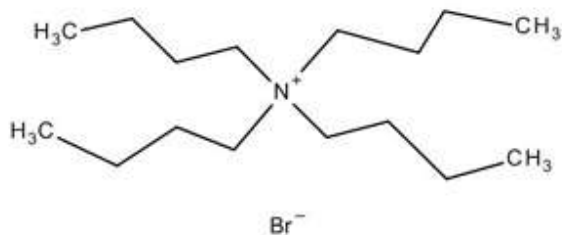
Hazardous Statement: H301-H311

Precaution Statement: P280-P301 + P310-P312

TETRA BUTYL AMMONIUM BROMIDE 98% FOR SYNTHESIS

A Versatile phase transfer catalyst. TBAB

Product Code.	02631	Grade	
Purity	98%	CAS No.	1643-19-2
Molecular Formula	C ₁₆ H ₃₆ BrN	Molecular Weight	322.37
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Amine like
Melting point/ Freezing point [°C]	102 - 106 °C	Density [g/cm ³]	1.15	Solubility in water [% weight]	600 g/L @ 20°C

Specification

Appearance	White Crystalline powder
Assay	Min 98%
Melting range	100 -103 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

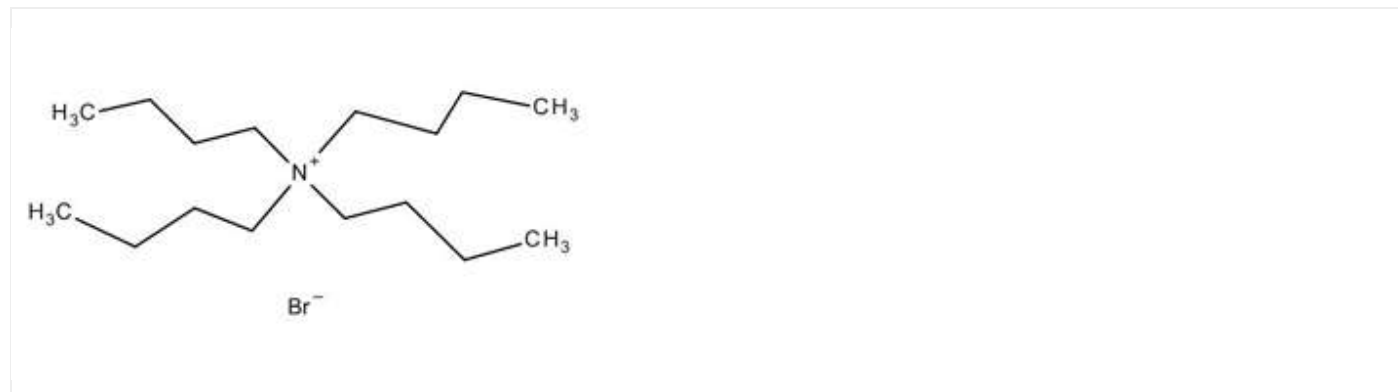
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

TETRA BUTYL AMMONIUM BROMIDE 99% AR

Tetra-n-butylammonium bromide; TBAB ; (phase transfer catalyst)

Product Code.	02632	Grade	AR
Purity	99%	CAS No.	1643-19-2
Molecular Formula	C ₁₆ H ₃₆ BrN	Molecular Weight	322.37
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Amine like
Melting point/ Freezing point [°C]	102 - 106 °C	Density [g/cm ³]	1.15	Solubility in water [% weight]	600 g/L @ 20°C

Specification

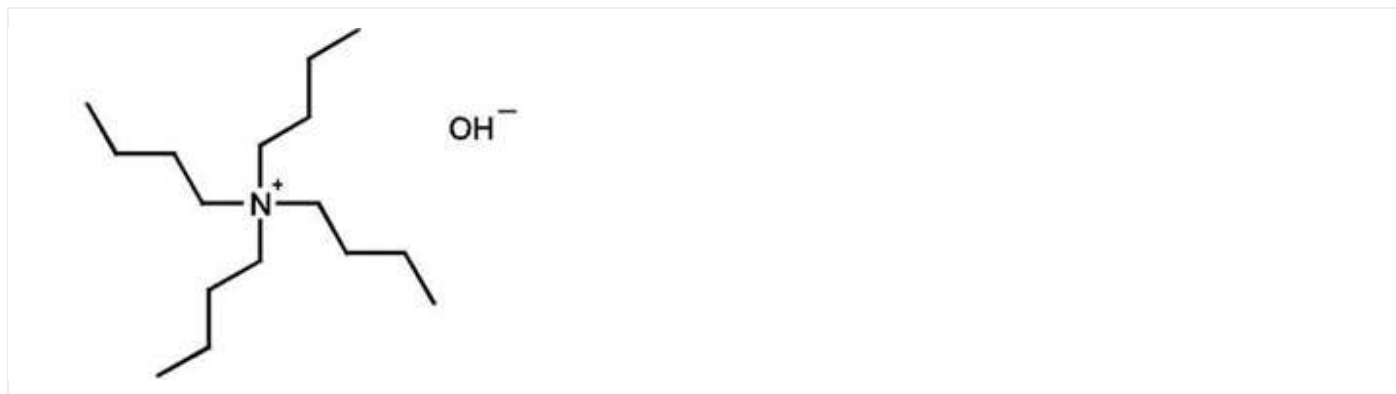
Appearance	White Crystalline powder
Assay	Min 99.0%
Melting range	102-104 °C

Safety Information and Hazard Symbols


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

TETRA BUTYL AMMONIUM HYDROXIDE 10% AQUEOUS SOLUTION

Product Code.	02635A	Grade	
Purity		CAS No.	2052-49-5
Molecular Formula	C ₁₆ H ₃₇ NO	Molecular Weight	259.48
H.S.Code	3822.00900	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Density [g/cm3]	0.995
Solubility in water [% weight]	Miscible in water				

Specification

Appearance	Clear colourless to pale yellow solution
Assay	About 10.0%
Sulphate (SO ₄)	Max. 0.02%
Halides (as Br)	Max. 0.1%

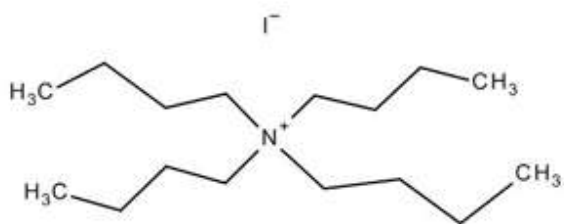
Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3267 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

TETRA BUTYL AMMONIUM IODIDE 99% AR

TBAI (phase transfer catalyst)

Product Code.	02641	Grade	AR
Purity	99%	CAS No.	311-28-4
Molecular Formula	C ₁₆ H ₃₆ IN	Molecular Weight	369.38
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white crystalline	Odour	Amine like
Melting point/ Freezing point [°C]	144 °C	Density [g/cm ³]	1.2	Solubility in water [% weight]	Partially soluble in water

Specification

Appearance	Off white crystalline powder
Assay	Min 99%
Melting range	145 - 146 °C

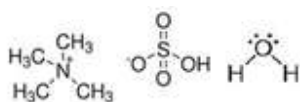
Safety Information and Hazard Symbols



Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H302-H315-H319-H335
Precaution Statement: P261-P305 + P351 + P338

TETRA METHYL AMMONIUM HYDROGEN SULPHATE (FOR SYNTHESIS)

Product Code.	02657	Grade	
Purity	98%	CAS No.	103812-00-6
Molecular Formula	C4H13NO4S.H2O	Molecular Weight	189.20
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	290 °C				

Packaging

Specification

Appearance	White crystalline powder
Assay	Min 98%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

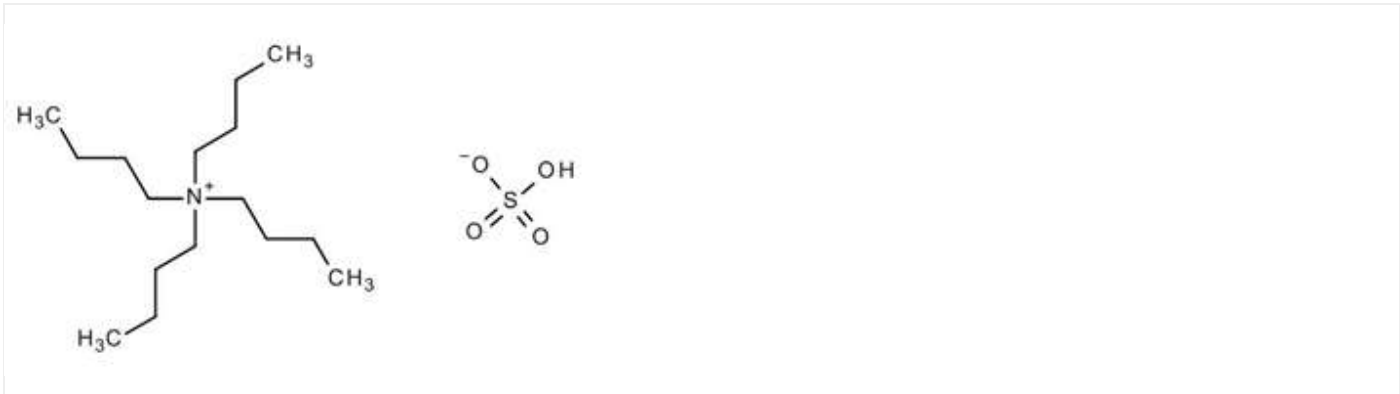
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

TETRABUTYL AMMONIUM HYDROGEN SULPHATE 99% HPLC

A Versatile phase transfer catalyst. Tetrabutylammonium bisulfate

Product Code.	02634	Grade	HPLC
Purity	99%	CAS No.	32503-27-8
Molecular Formula	C16H37NO4S	Molecular Weight	339.54
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Amine like
pH value	1 - 2	Melting point/ Freezing point [°C]	169 - 171°C	Solubility in water [% weight]	Appreciable (> 10%)

Packaging

Specification

Appearance	Colorless crystals / White crystalline powder
Assay (titration)	Min 99.0%
Melting range	169 - 172 °C
at 200 nm	Max 0.15
at 220 nm	Max 0.05

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

UN No.: NA

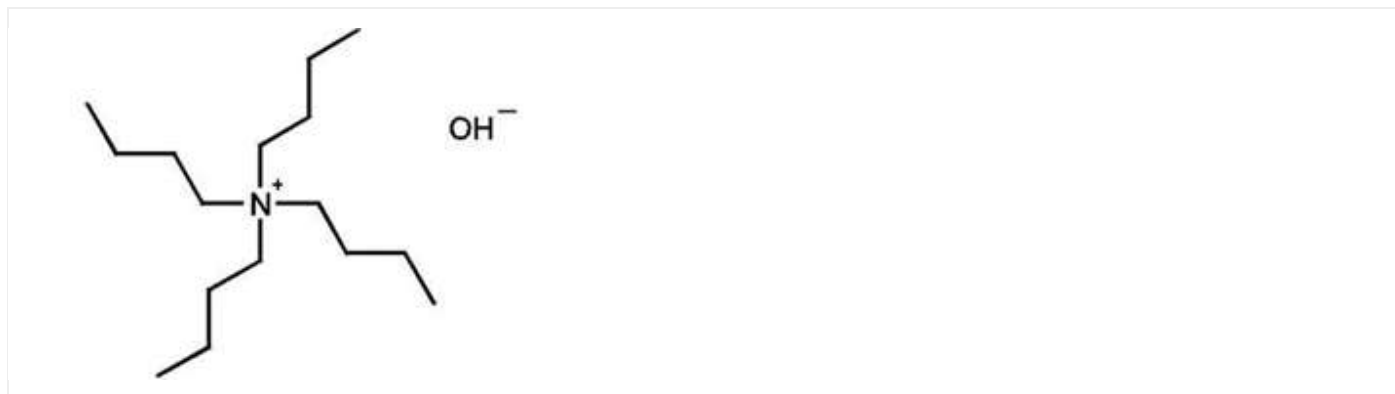
IMCO Class No.: NA

Hazardous Statement: H302-H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

TETRABUTYL AMMONIUM HYDROXIDE 20% SOLUTION IN WATER

Product Code.	02635	Grade	
Purity		CAS No.	2052-49-5
Molecular Formula	C ₁₆ H ₃₇ NO	Molecular Weight	259.48
H.S.Code	3822.00900	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Density [g/cm ³]	0.995
Solubility in water [% weight]	Miscible in water				

Specification

Appearance	Clear colourless to pale yellow solution
Assay	19.5 - 21%
Sulphate (SO ₄)	Max. 0.02%
Halides (as Br)	Max. 0.1%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3267 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

TETRABUTYL AMMONIUM HYDROXIDE 25% IN METHANOL EXTRAPURE

Product Code.	02637	Grade	
Purity		CAS No.	NA
Molecular Formula	C16H37NO	Molecular Weight	258.48
H.S.Code	3822.00900	Shelf Life	36 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless to light yellow	Odour	Amine like and Alcohol like
Odour threshold	100 ppm	pH value	>13	Melting point/ Freezing point [°C]	-97.8°C
Critical temperature [°C]	240°C	Auto-ignition temperature [°C]	470°C	Flammability (solid, gas)	Flammable
Flash point [°C]	12°C	Boiling point [°C]	65°C	Vapour pressure [20°C]	12.9 kPa (@ 20°C)
Vapour density	1.11	Density [g/cm3]	0.8 - 0.83	Solubility in water [% weight]	Soluble in water
Explosion limits - upper [%]	36%	Explosion limits -lower [%]	6.70%		

Specification

Appearance	A clear colourless to yellowish solution
Assay	About 25.0%

Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS06, GHS08 Signal Word: Danger UN No.: 2924 IMCO Class No.: 3,8 Packing Group: II Hazardous Statement: H226-H300-H311-H314-H331-H370 Precaution Statement: P260-P264-P280-P301 + P310-P305 + P351 + P338-P310

TETRABUTYL AMMONIUM HYDROXIDE 40% IN METHANOL AR

Product Code.	02638	Grade	
Purity		CAS No.	NA
Molecular Formula		Molecular Weight	0.00
H.S.Code	3822.00900	Shelf Life	36 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless to light yellow	Odour	Characteristic
Melting point/ Freezing point [°C]	-98°C	Auto-ignition temperature [°C]	455°C	Flammability (solid, gas)	Flammable
Flash point [°C]	12°C	Boiling point [°C]	65°C	Density [g/cm3]	0.91
Solubility in water [% weight]	Soluble in water	Explosion limits - upper [%]	36.50%	Explosion limits -lower [%]	5.50%

Packaging

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Specification

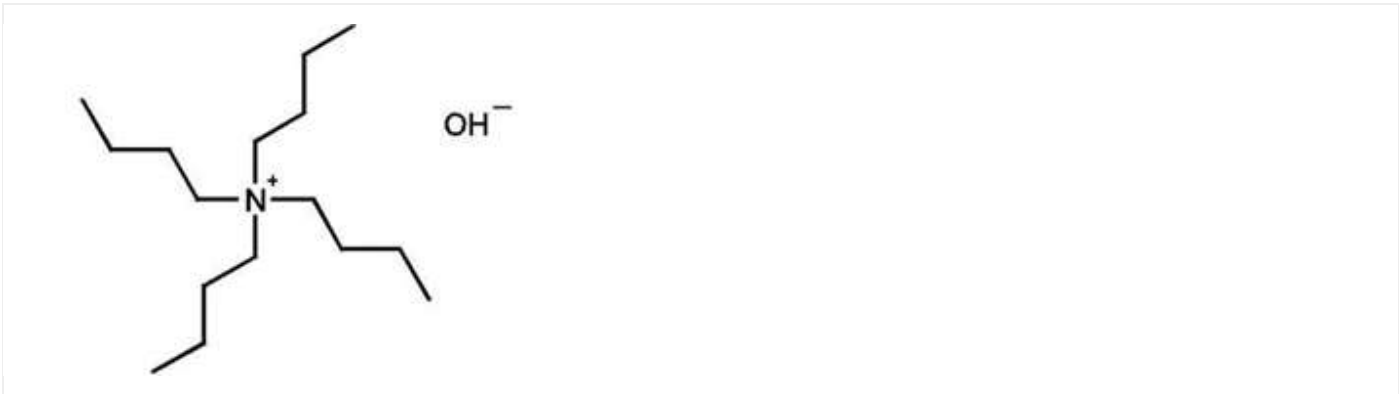
Appearance	A white to light yellow coloured solution
Assay (acidimetric)	About 40.0%

Safety Information and Hazard Symbols


Symbol: GHS02, GHS06, GHS05 Signal Word: Danger UN No.: 3286 IMCO Class No.: 3 (6.1,8) Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

TETRABUTYL AMMONIUM HYDROXIDE 40% SOLUTION IN WATER

Product Code.	02636	Grade	
Purity		CAS No.	2052-49-5
Molecular Formula	C16H37NO	Molecular Weight	259.50
H.S.Code	3822.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	pH value	14
Boiling point [°C]	> 100 °C	Density [g/cm3]	0.995	Solubility in water [% weight]	Miscible in water

Packaging

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Specification

Appearance	Clear, colourless to very faint yellow solution.
Assay	38.0 - 42.0%
Colour scale	Max. 150 APHA
Halides (as Br)	Max. 0.1%
Density (at 25°C)	~0.98 g/ml
Sulphate (SO4)	Max. 0.3%
***May crystallize below 30°C;Can be redissolve by gentle warming	

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3267

IMCO Class No.: 8

Packing Group: II

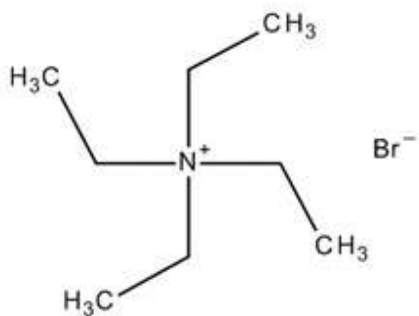
Hazardous Statement: H314

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

TETRAETHYL AMMONIUM BROMIDE 99% FOR SYNTHESIS

Phases transfer catalyst. TEA bromide

Product Code.	02646	Grade	
Purity	99%	CAS No.	71-91-0
Molecular Formula	C ₈ H ₂₀ BrN	Molecular Weight	210.17
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	6.5 at 100 g/l	Melting point/ Freezing point [°C]	285 °C	Vapour density	5.3
Density [g/cm ³]	1.4	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	White crystalline powder
Assay	Min 99%

Safety Information and Hazard Symbols

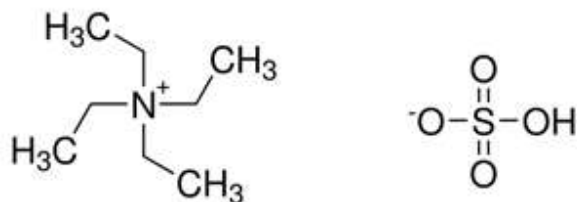


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315-H319-H335
Precaution Statement: P261-P305 + P351 + P338

TETRAETHYL AMMONIUM HYDROGEN SULPHATE 99% HPLC

For ion pair chromatography.

Product Code.	02648	Grade	
Purity	99%	CAS No.	16873-13-5
Molecular Formula	C ₈ H ₂₁ NO ₄ S	Molecular Weight	227.32
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	243 - 245 °C	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	White crystalline powder
Assay	Min 99%
RP gradient test	Corresponds to standard
Filter test	Corresponds to standard
Melting point	243 - 245 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

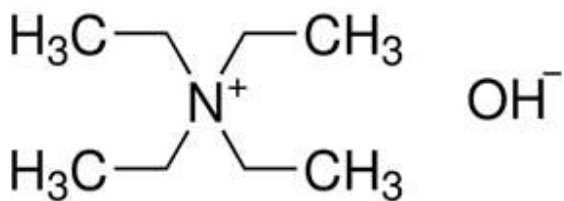
Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

TETRAETHYL AMMONIUM HYDROXIDE 25% AQUEOUS SOLUTION EXTRA PURE

Product Code.	02647	Grade	
Purity		CAS No.	77-98-5
Molecular Formula	(C ₂ H ₅) ₄ N(OH)	Molecular Weight	147.26
H.S.Code	3822.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless to yellowish	Density [g/cm ³]	1.02
Solubility in water [% weight]	Miscible in water				

Specification

Appearance	A clear colourless to yellowish liquid
Assay (acidimetric)	~25%
Density (at 25°C)	About 1.02

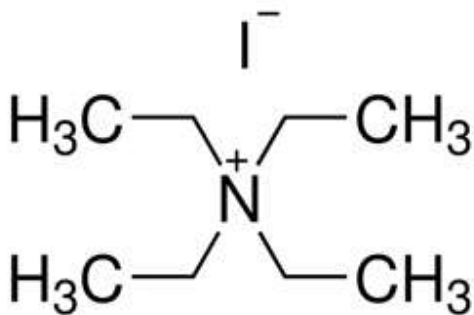
Safety Information and Hazard Symbols



Symbol: GHS05
Signal Word: Danger
UN No.: 3267
IMCO Class No.: 8
Packing Group: II
Hazardous Statement: H314
Precaution Statement: P280-P305 + P351 + P338-P310

TETRAETHYL AMMONIUM IODIDE 98.5% FOR SYNTHESIS

Product Code.	02649	Grade	
Purity	98%	CAS No.	68-05-3
Molecular Formula	C ₈ H ₂₀ IN	Molecular Weight	257.20
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	> 300 °C				

Specification

Appearance	White to off-white powder
Assay (argentometric)	Min 98%
Water (H ₂ O)	Max 1%
Melting point	~320 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

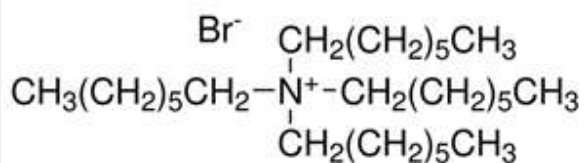
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

TETRAHEPTYL AMMONIUM BROMIDE 99% AR

For ion pair chromatography.

Product Code.	02650	Grade	
Purity	99%	CAS No.	4368-51-8
Molecular Formula	C ₂₈ H ₆₀ BrN	Molecular Weight	490.71
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	88 - 90 °C	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	White to faint red powder, crystals or flakes.
Assay	Min 99%
Melting point	89-91 deg C

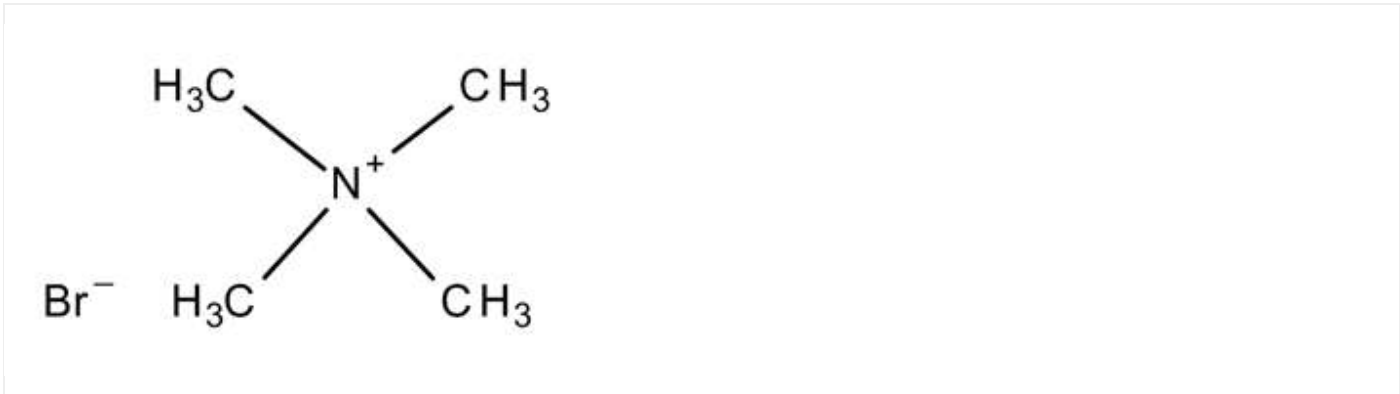
Safety Information and Hazard Symbols



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

TETRAMETHYL AMMONIUM BROMIDE 99% FOR SYNTHESIS

Product Code.	02655	Grade	
Purity	98%	CAS No.	64-20-0
Molecular Formula	(CH3)4N(Br)	Molecular Weight	154.05
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

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

Specification

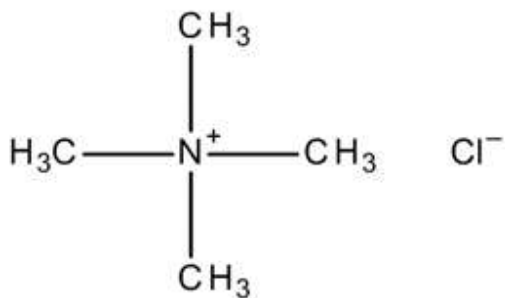
Appearance	White crystalline powder
Assay	Min 98%
Melting point	Min 300 deg C

Safety Information and Hazard Symbols

Symbol: GHS06 Signal Word: Danger UN No.: 2811 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H300-H315-H319-H335 Precaution Statement: P261-P264-P301 + P310-P305 + P351 + P338

TETRAMETHYL AMMONIUM CHLORIDE 98% FOR SYNTHESIS

Product Code.	02656	Grade	
Purity	98%	CAS No.	75-57-0
Molecular Formula	C ₄ H ₁₂ ClN	Molecular Weight	109.61
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	6 - 8	Melting point/ Freezing point [°C]	> 300 °C	Solubility in water [% weight]	Soluble in water

Specification

Appearance	White crystalline powder
Assay	Min 98%

Safety Information and Hazard Symbols

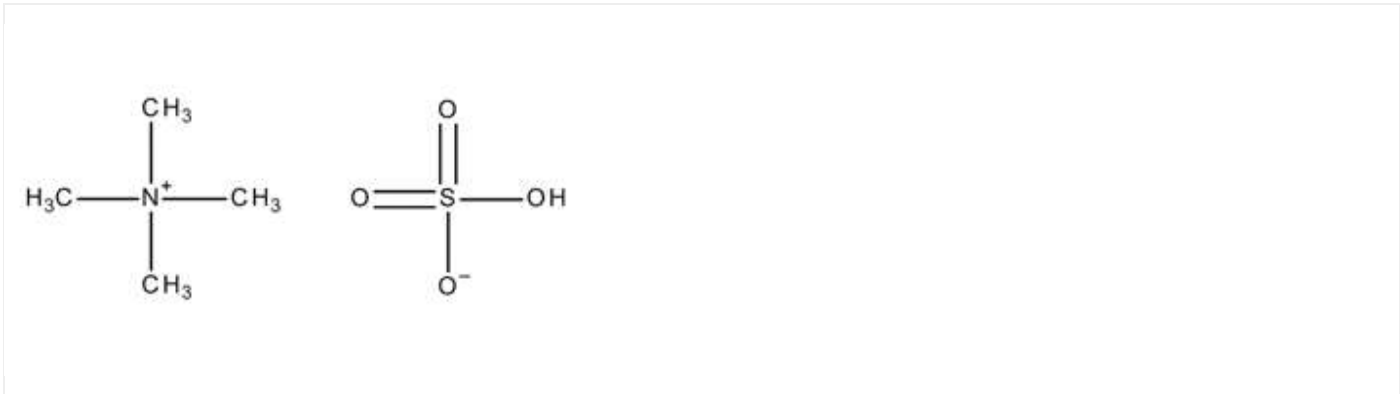


Symbol: GHS06
Signal Word: Danger
UN No.: 2811
IMCO Class No.: 6.1
Packing Group: II
Hazardous Statement: H300-H311-H315-H319-H335
Precaution Statement: P261-P264-P280-P301 + P310-P305 + P351 + P338-P312

TETRAMETHYL AMMONIUM HYDROGEN SULPHATE 99% HPLC

For ion pair chromatography.

Product Code.	02658	Grade	
Purity	99%	CAS No.	80526-82-5
Molecular Formula	C4H13NO4S	Molecular Weight	171.21
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	290 °C				

Packaging

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Specification

Appearance	White crystalline powder
Assay (acidimetric; on anhydrous basis)	Min 99%
Identity (IR)	Conforms
pH (10% solution)	Max 2.0
UV absorbance at	
at 200 nm (0.005 mol/L; 1cm; water)	Max 0.15
at 220 nm (0.005 mol/L; 1cm; water)	Max 0.05
TLC test	Conforms

Water (by KF)

Max 1.0%

Safety Information and Hazard Symbols



Symbol: GHS07

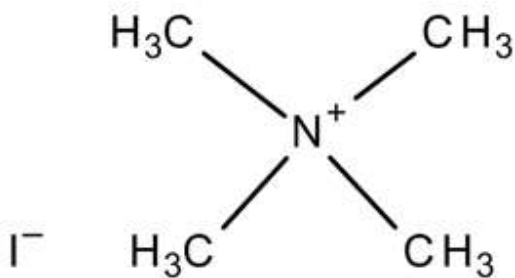
Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

TETRAMETHYL AMMONIUM IODIDE 99% AR

Product Code.	02659	Grade	
Purity	99%	CAS No.	75-58-1
Molecular Formula	C ₄ H ₁₂ IN	Molecular Weight	201.05
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to off white	Melting point/ Freezing point [°C]	> 300 °C
Density [g/cm ³]	1.829	Solubility in water [% weight]	Slightly soluble		

Specification

Appearance	White to off-white powder, crystals.
Assay (argentometric)	Min 99%
Melting point	Min 300 deg C

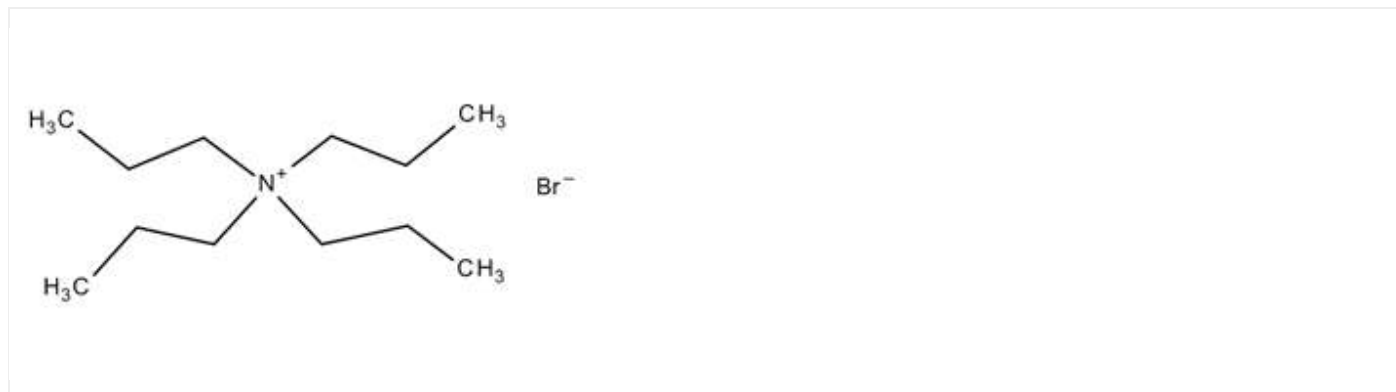
Safety Information and Hazard Symbols



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

TETRAPROPYL AMMONIUM BROMIDE 99% EXTRAPURE

Product Code.	02665	Grade	Extrapure
Purity	99%	CAS No.	1941-30-6
Molecular Formula	C ₁₂ H ₂₈ BrN	Molecular Weight	266.27
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	270 °C	Solubility in water [% weight]	1000 g/l @ 20°C	Partition coefficient Log Pow octanol / water at 20°C	-0.25

Specification

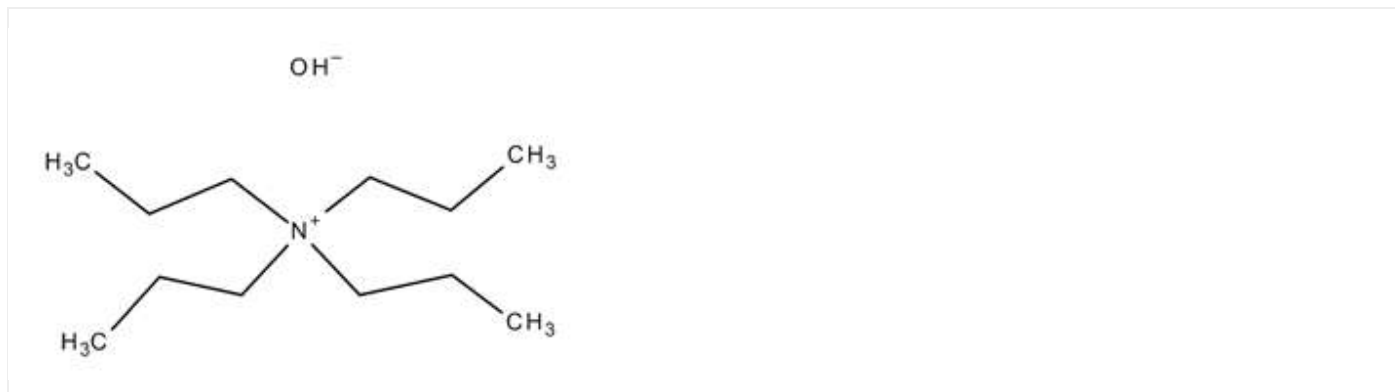
Appearance	White crystalline powder
Assay (argentometric)	Min 99.0%
Identity (IR)	Conforms

Safety Information and Hazard Symbols


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

TETRAPROPYL AMMONIUM HYDROXIDE 10% AQUEOUS SOLUTION

Product Code.	02666	Grade	
Purity	~10%	CAS No.	4499-86-9
Molecular Formula	C ₁₂ H ₂₉ NO	Molecular Weight	203.36
H.S.Code	3822.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Density [g/cm ³]	1
Solubility in water [% weight]	Miscible in water				

Specification

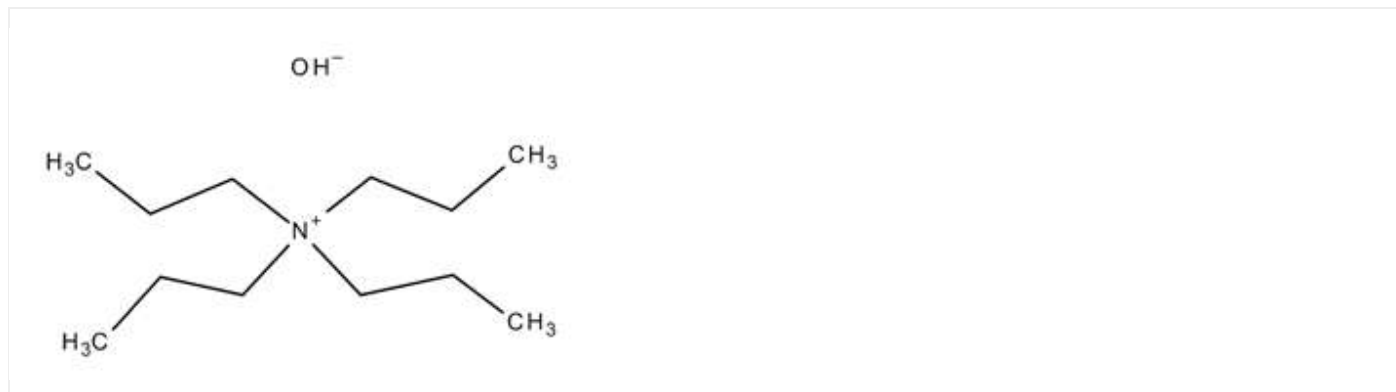
Appearance	Clear, colourless solution
Assay	~10%

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3267 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

TETRAPROPYL AMMONIUM HYDROXIDE 20% SOLUTION IN WATER

Product Code.	02667	Grade	
Purity	20%	CAS No.	4499-86-9
Molecular Formula	C ₁₂ H ₂₉ NO	Molecular Weight	203.36
H.S.Code	3822.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Density [g/cm ³]	1
Solubility in water [% weight]	Miscible in water				

Specification

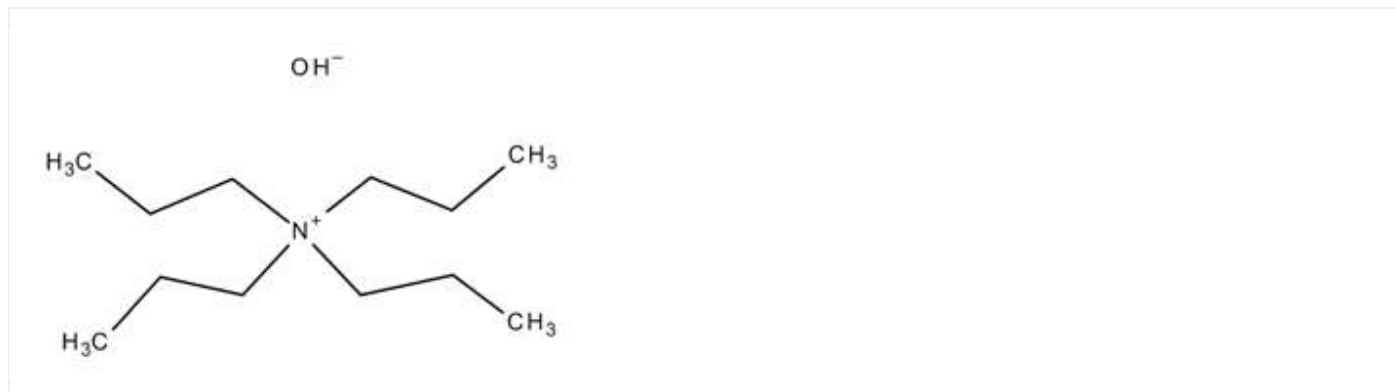
Appearance	Clear, colourless solution
Assay (argentometric)	About 20%
Density (d _{20°C/4°C})	0.998 - 1.010
Boiling Point	102 deg C

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3267 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

TETRAPROPYL AMMONIUM HYDROXIDE 40% SOLUTION IN WATER

Product Code.	02668	Grade	
Purity	40%	CAS No.	4499-86-9
Molecular Formula	C ₁₂ H ₂₉ NO	Molecular Weight	203.36
H.S.Code	3822.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless liquid or pale yellow liquid	pH value	14
Boiling point [°C]	> 100 °C	Density [g/cm ³]	0.995		

Specification

Appearance	Clear colorless liquid or pale yellow liquid
Assay (acidimetric)	About 40%
Density (d _{20°C/4°C})	0.998 - 1.010

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3267 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

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