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Технические характеристики

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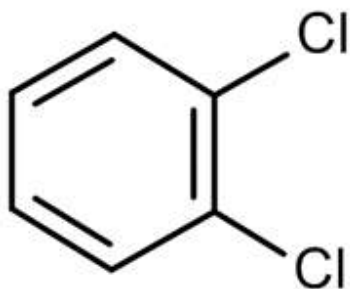
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1,2-DICHLOROBENZENE 99% EXTRAPURE (O-DICHLOROBENZENE)

1, 2-Dichlorobenzene

Product Code.	00963	Grade	Extrapure
Purity	99%	CAS No.	95-50-1
Molecular Formula	C6H4Cl2	Molecular Weight	147.00
H.S.Code	2903.91200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pleasant odor
Melting point/ Freezing point [°C]	-18 - -17 °C	Auto-ignition temperature [°C]	648°C	Flash point [°C]	66 °C
Boiling point [°C]	178 - 180 °C	Initial boiling point [°C]	178°C	Final boiling point [°C]	180 °C
Evaporation rate	<1	Vapour pressure [20°C]	1.6 hPa at 20°C	Vapour density	5.1
Density [g/cm3]	1.3	Solubility in water [% weight]	Practically insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	5
Explosion limits - upper [%]	9.20%	Explosion limits -lower [%]	2.20%		

Packaging

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Specification

Appearance	Colorless liquid
Purity (by GC)	Min 99%
Weight/ mL at 20°C	1.305 - 1.307 g/ml

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 1591

IMCO Class No.: 6.1

Packing Group: III

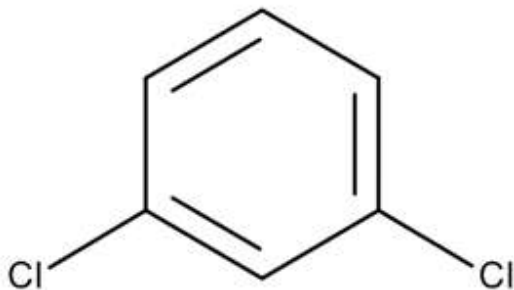
Hazardous Statement: H302-H315-H319-H335-H410

Precaution Statement: P261-P273-P305 + P351 + P338-P501

1,3-DICHLOROBENZENE 98% FOR SYNTHESIS

1,3-DICHLOROBENZENE; m-Dichloro Benzene (M.D.C.B.)

Product Code.	00962	Grade	
Purity	98%	CAS No.	541-73-1
Molecular Formula	C6H4Cl2	Molecular Weight	147.00
H.S.Code	2903.91200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pleasant odor
Melting point/ Freezing point [°C]	-25 - -22 °C	Flash point [°C]	67°C	Boiling point [°C]	172 - 173 °C
Initial boiling point [°C]	172°C	Final boiling point [°C]	173 °C	Density [g/cm3]	1.288
Partition coefficient Log Pow octanol / water at 20°C	5				

Packaging

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Specification

Appearance	Clear colourless to pale yellow liquid
Assay (GC area %)	Min 98%
Refractive index (20°C; 589 nm)	1.5457
Density (d20°C/4°C)	1.287 - 1.289

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 3082

IMCO Class No.: 9

Packing Group: III

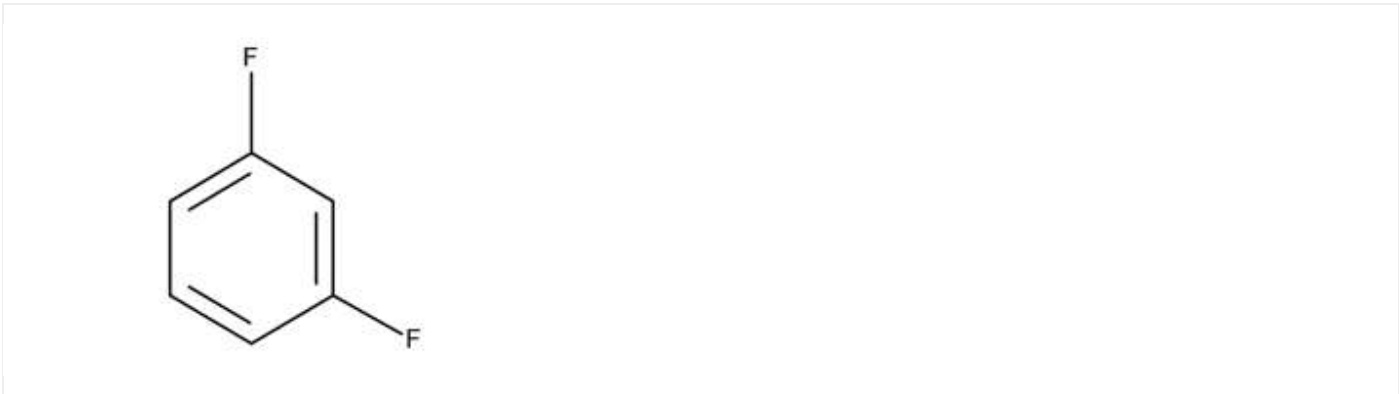
Hazardous Statement: H302-H411

Precaution Statement: P273

1,3-DIFLUOROBENZENE 99% EXTRAPURE

m-Difluorobenzene

Product Code.	01008	Grade	
Purity	99%	CAS No.	372-18-9
Molecular Formula	C6H4F2	Molecular Weight	114.10
H.S.Code	2903.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Melting point/ Freezing point [°C]	-59 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	2 °C	Boiling point [°C]	82 °C
Density [g/cm3]	1.163				

Packaging

Specification

Appearance	A clear, colourless liquid
Assay	Min 99%
Boiling Point	81 - 83 deg C
Density (d20°C/4°C)	~1.157
Refractive index (20°C; 589 nm)	~1.438

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1993

IMCO Class No.: 3

Packing Group: II

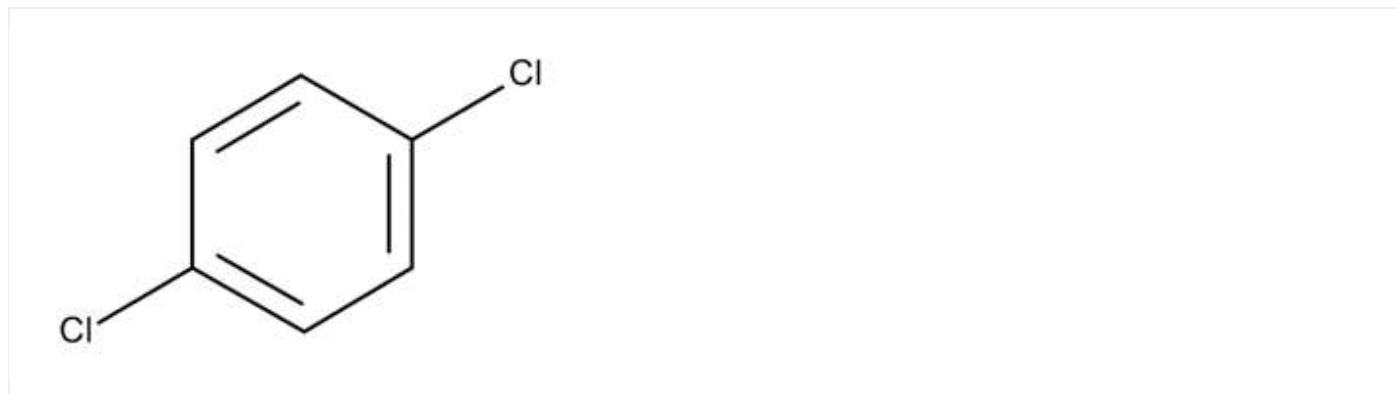
Hazardous Statement: H225-H332

Precaution Statement: P210

1,4-DICHLOROBENZENE 99% FOR SYNTHESIS

1, 4-Dichlorobenzene

Product Code.	00964	Grade	
Purity	98%	CAS No.	106-46-7
Molecular Formula	C6H4Cl2	Molecular Weight	147.00
H.S.Code	2903.91300	Shelf Life	60 Months



Physical Properties

Packaging

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Specification

Appearance	Off white / White crystalline powder
Assay	Min 99%
Melting point	52 - 56 deg C

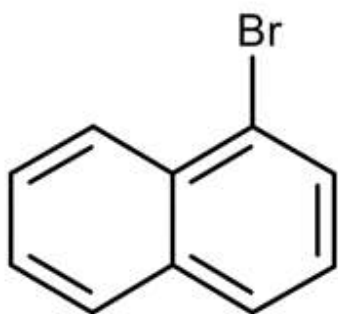
Safety Information and Hazard Symbols

Symbol: GHS07, GHS08, GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H319-H351-H410 Precaution Statement: P273-P281-P305 + P351 + P338-P501

1-BROMONAPHTHALENE 96% FOR SYNTHESIS

a-Bromonaphthalene; a-Naphthyl bromide; 1-Naphthyl bromide

Product Code.	00507	Grade	
Purity	96%	CAS No.	90-11-9
Molecular Formula	C10H7Br	Molecular Weight	207.08
H.S.Code	2903.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear yellowish	Odour	Pungent odour
Melting point/ Freezing point [°C]	-2 - -1 °C	Flash point [°C]	110 °C	Boiling point [°C]	133 - 134 °C
Initial boiling point [°C]	133°C	Final boiling point [°C]	134 °C	Density [g/cm3]	1.489
Solubility in water [% weight]	Slightly soluble in water	Refractive index	About 1.6570 at 20°C		

Packaging



Specification

Appearance	A clear yellowish oily liquid
Assay	Min 96%

Density (d₂₀^{°C}/4^{°C})

1.483 - 1.486

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H302-H319

Precaution Statement: P305 + P351 + P338

2-CHLOROTOLUENE, 98%

Product Code.	0787A	Grade	
Purity	98%	CAS No.	95-49-8
Molecular Formula	C7H7Cl	Molecular Weight	126.59
H.S.Code	2903.99900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Melting point/ Freezing point [°C]	-36 °C
Auto-ignition temperature [°C]	600°C	Flammability (solid, gas)	Flammable	Flash point [°C]	46°C
Boiling point [°C]	157 - 159 °C	Initial boiling point [°C]	157 °C	Final boiling point [°C]	159 °C
Vapour pressure mm/Hg	3.5 mbar @ 20 deg C	Density [g/cm3]	1.083	Solubility in water [% weight]	Slightly soluble
Explosion limits - upper [%]	12.60%	Explosion limits -lower [%]	1.00%		

Specification

Appearance (Color)	Clear colorless
Appearance (Form)	Liquid
Infrared spectrum	Conforms
GC	>=97.5 %
Refractive index	1.5235 to 1.5265 (20°C, 589 nm)

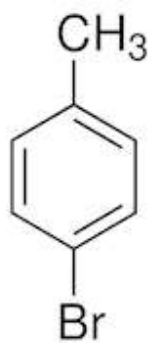
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 2238 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H332-H411 Precaution Statement: P273

4-BROMOTOLUENE 98% FOR SYNTHESIS

1-Bromo-4-methylbenzene; Benzene,1-bromo-4-methyl; 4-Bromo-1-methylbenzene; 4-methylbromobenzene; p-Methylphenyl bromide; 4-Methyl-1-bromobenzene

Product Code.	00520	Grade	
Purity	98%	CAS No.	106-38-7
Molecular Formula	C7H7Br	Molecular Weight	171.03
H.S.Code	2903.99900	Shelf Life	60 Months



Packaging



Specification

Appearance	White solid,Crystals, Powder or colorless liquid
Assay (GC area %)	Min 98.0%
Melting range	24.0-27.0°C

Safety Information and Hazard Symbols

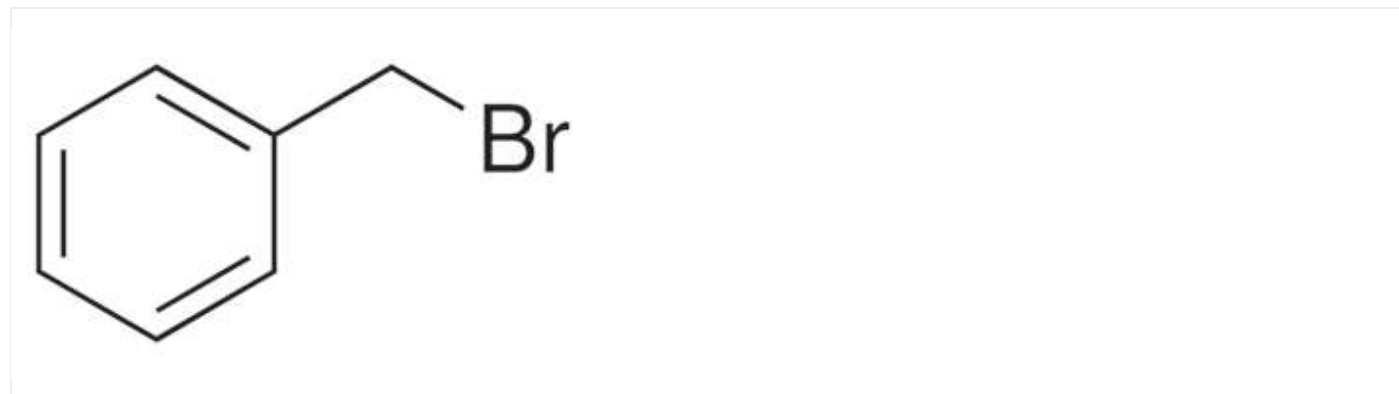


Symbol: GHS07,GHS09
Signal Word: Warning
UN No.: 3077
IMCO Class No.: 9
Packing Group: III
Hazardous Statement: H332-H411
Precaution Statement: P262+P273

BENZYL BROMIDE 98% FOR SYNTHESIS

a-Bromotoluene

Product Code.	00399	Grade	For Synthesis
Purity	98%	CAS No.	100-39-0
Molecular Formula	C7H7Br	Molecular Weight	171.05
H.S.Code	2903.99900	Shelf Life	60 Months



Physical Properties

Packaging



Specification

Appearance	Clear colorless to yellow liquid
Purity (by GC)	Min 98.0%
Colour scale	Max 400 APHA
Density (at 20°C)	1.437-1.440 g/mL
Identity (IR)	Passes test
Refractive index (20°C; 589 nm)	~1.575

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Danger

UN No.: 1737

IMCO Class No.: 6.1 (8)

Packing Group: II

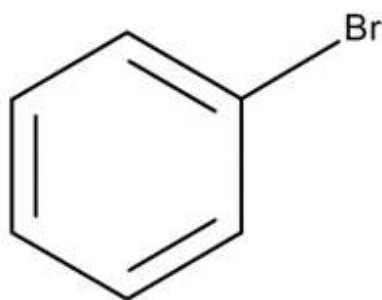
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

BROMOBENZENE 99.5% AR

Phenylbromide; Monobromobenzene

Product Code.	00491	Grade	
Purity	99.5%	CAS No.	108-86-1
Molecular Formula	C6H5Br	Molecular Weight	157.02
H.S.Code	2903.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Characteristic aromatic odor
Melting point/ Freezing point [°C]	-31°C	Auto-ignition temperature [°C]	566 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	51°C	Boiling point [°C]	154 - 155°C	Initial boiling point [°C]	154°C
Final boiling point [°C]	155°C	Vapour pressure [20°C]	5.3 hPa at 25,0 °C	Vapour density	5.41
Density [g/cm3]	1.5	Solubility in water [% weight]	Insoluble	Partition coefficient Log Pow octanol / water at 20°C	2.99
Explosion limits - upper [%]	36.50%	Explosion limits -lower [%]	6.00%		

Packaging



Specification

Appearance	Pale yellow colored liquid
Assay (by GC)	Min 99.5%
Weight/ mL at 20°C	1.49-1.50 g
Water (by KF)	Max 0.1%

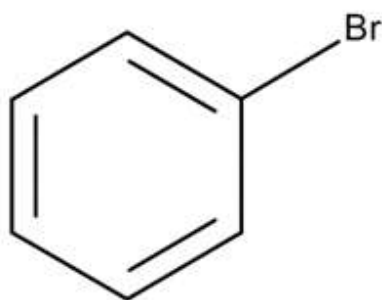
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07, GHS09 Signal Word: Warning UN No.: 2514 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H315-H411 Precaution Statement: P273

BROMOBENZENE 99% EXTRAPURE

Phenylbromide; Monobromobenzene

Product Code.	00490	Grade	
Purity	99%	CAS No.	108-86-1
Molecular Formula	C6H5Br	Molecular Weight	157.02
H.S.Code	2903.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless/Pale yellow colored liquid	Odour	Characteristic aromatic odor
Melting point/ Freezing point [°C]	-31 °C	Auto-ignition temperature [°C]	566 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	51°C	Boiling point [°C]	154 - 155°C	Initial boiling point [°C]	154°C
Final boiling point [°C]	155°C	Vapour pressure [20°C]	5.3 hPa at 25,0 °C	Vapour density	5.41
Density [g/cm3]	1.5	Solubility in water [% weight]	Insoluble	Partition coefficient Log Pow octanol / water at 20°C	2.99
Explosion limits - upper [%]	36.50%	Explosion limits -lower [%]	6.00%		

Packaging



Specification

Appearance	Clear colorless/Pale yellow colored liquid
Assay	Min 99%
Weight/ mL at 20°C	1.49 - 1.50 g

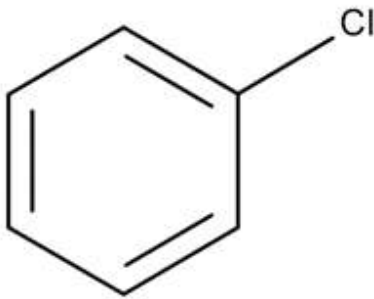
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07, GHS09 Signal Word: Warning UN No.: 2514 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H315-H411 Precaution Statement: P273

CHLOROBENZENE 99.5% AR

Monochlorobenzene

Product Code.	00758	Grade	
Purity	99.5%	CAS No.	108-90-7
Molecular Formula	C6H5Cl	Molecular Weight	112.56
H.S.Code	2903.91100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Almond like odour
Melting point/ Freezing point [°C]	-45°C	Auto-ignition temperature [°C]	637°C	Flammability (solid, gas)	Flammable
Flash point [°C]	27 °C	Boiling point [°C]	132 °C	Evaporation rate	1.1
Vapour pressure [20°C]	15.7 hPa at 25,0 °C	Vapour density	3.9	Density [g/cm3]	1.11
Relative density, liquid (water=1)	1.106 g/cm3 at 25 °C	Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	2.89
Explosion limits - upper [%]	7.10%	Explosion limits -lower [%]	1.30%		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (as C6H5Cl)	Min 99.5%

Density (d20°C/4°C)	1.105 - 1.107
Residue on evaporation	Max 0.01%

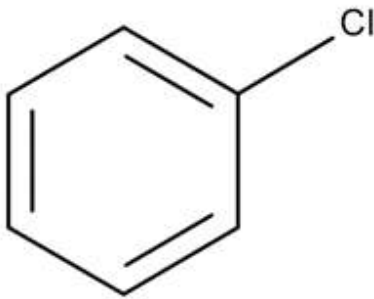
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07, GHS09 Signal Word: Warning UN No.: 1134 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H332-H411 Precaution Statement: P273

CHLOROBENZENE 99% FOR SYNTHESIS

Monochlorobenzene

Product Code.	00757	Grade	For Synthesis
Purity	99%	CAS No.	108-90-7
Molecular Formula	C6H5Cl	Molecular Weight	112.56
H.S.Code	2903.91100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Almond like odour
Melting point/ Freezing point [°C]	-45°C	Auto-ignition temperature [°C]	637°C	Flammability (solid, gas)	Flammable
Flash point [°C]	27 °C	Boiling point [°C]	132 °C	Evaporation rate	1.1
Vapour pressure [20°C]	15.7 hPa at 25,0 °C	Vapour density	3.9	Density [g/cm3]	1.11
Relative density, liquid (water=1)	1.106 g/cm3 at 25 °C	Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	2.89
Explosion limits - upper [%]	7.10%	Explosion limits -lower [%]	1.30%		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 99%

Density (d20°C/4°C)

1.105 - 1.107 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07, GHS09

Signal Word: Warning

UN No.: 1134

IMCO Class No.: 3

Packing Group: III

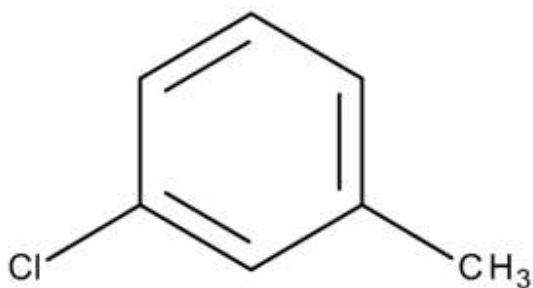
Hazardous Statement: H226-H332-H411

Precaution Statement: P273

M-CHLOROTOLUENE 95% FOR SYNTHESIS

1-Chloro-3-methylbenzene; 3-methylchlorobenzene; m-tolyl chloride ; M-Chlorotoluene

Product Code.	00788	Grade	For Synthesis
Purity	95%	CAS No.	108-41-8
Molecular Formula	C7H7Cl	Molecular Weight	126.60
H.S.Code	2903.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Light yellow	Melting point/ Freezing point [°C]	-48 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	52 °C	Boiling point [°C]	160 - 162 °C
Initial boiling point [°C]	160°C	Final boiling point [°C]	162°C	Vapour pressure [20°C]	3.6 mbar @ 20 C
Density [g/cm3]	1.072	Solubility in water [% weight]	Slightly soluble in water		

Packaging

Specification

Appearance	Clear colorless liquid
Assay	Min 95%
Boiling Point	160 - 162 deg C
Density (at 25°C)	1.071 g/ml

Refractive index (20°C; 589 nm)

~1.522

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 2238

IMCO Class No.: 3

Packing Group: III

Hazardous Statement: H332-H411

Precaution Statement: P273

N-BUTYL IODIDE 98.5% FOR SYNTHESIS

Product Code.	0578A	Grade	For Synthesis
Purity	98.5%	CAS No.	542-69-8
Molecular Formula	C4H9I	Molecular Weight	184.02
H.S.Code	2903.69000	Shelf Life	36 Months

Physical Properties

Packaging

Specification

Appearance	Clear colorless to light yellow to light pink liquid
Purity (by GC)	Min 98.5%
Identity (IR)	Passes test
Density (at 20°C)	1.613-1.617 g/cm3

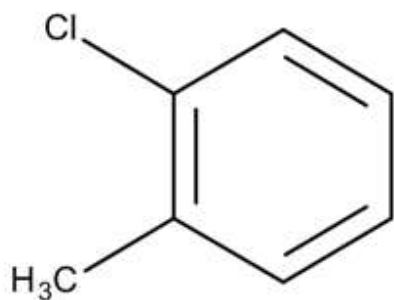
Safety Information and Hazard Symbols


Symbol: GHS02, GHS06 Signal Word: Danger UN No.: 1993 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H331 Precaution Statement: P261-P311 Risk Statement: 10-20

O-CHLOROTOLUENE 98% FOR SYNTHESIS

OCT; 1-Chloro-2-methylbenzene ; 2-Chlorotoluene

Product Code.	00787	Grade	
Purity	98%	CAS No.	95-49-8
Molecular Formula	C7H7Cl	Molecular Weight	126.59
H.S.Code	2903.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Melting point/ Freezing point [°C]	-36 °C
Auto-ignition temperature [°C]	600°C	Flammability (solid, gas)	Flammable	Flash point [°C]	46°C
Boiling point [°C]	157 - 159 °C	Initial boiling point [°C]	157 °C	Final boiling point [°C]	159 °C
Vapour pressure mm/Hg	3.5 mbar @ 20 deg C	Density [g/cm3]	1.083	Solubility in water [% weight]	Slightly soluble
Explosion limits - upper [%]	12.60%	Explosion limits -lower [%]	1.00%		

Packaging

Specification

Appearance	Clear colourless liquid
Assay (GC area %)	Min 98%
Density (d20°C/4°C)	1.081 - 1.083

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 2238

IMCO Class No.: 3

Packing Group: III

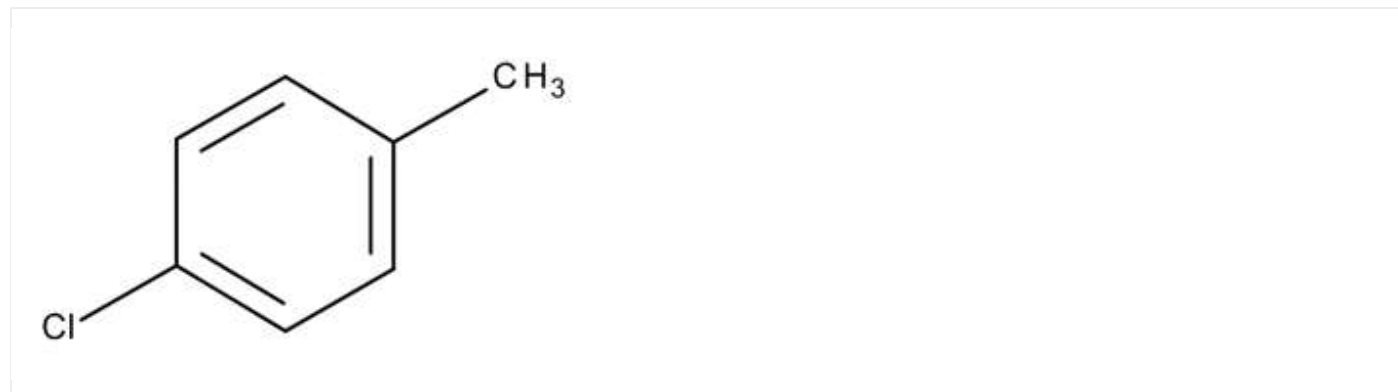
Hazardous Statement: H332-H411

Precaution Statement: P273

P-CHLOROTOLUENE 99% FOR SYNTHESIS

PCT; 1-Chloro-4-methylbenzene ; 4-Chlorotoluene

Product Code.	00789	Grade	
Purity	98%	CAS No.	106-43-4
Molecular Formula	C7H7Cl	Molecular Weight	126.59
H.S.Code	2903.99500	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Light yellow	Melting point/ Freezing point [°C]	6 - 8 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	53°C	Boiling point [°C]	162 °C
Vapour pressure mm/Hg	13.3 hPa at 45°C	Density [g/cm3]	1.07	Partition coefficient Log Pow octanol / water at 20°C	3.32

Specification

Appearance	Clear colorless liquid
Assay (GC area %)	Min 98%
Density (d20°C/4°C)	1.068 - 1.072

Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 2238 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H332-H411 Precaution Statement: P273

По вопросам продаж и поддержки обращайтесь:

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