

Галогенангидриды

Технические характеристики

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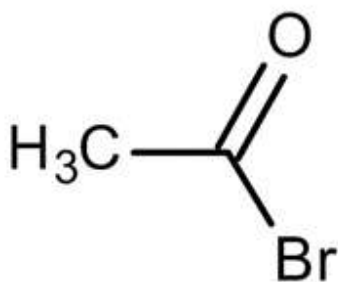
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ACETYL BROMIDE 98% FOR SYNTHESIS

Ethanoyl bromide

Product Code.	00041	Grade	
Purity	98%	CAS No.	506-96-7
Molecular Formula	CH ₃ COBr	Molecular Weight	122.95
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent Odour
Melting point/ Freezing point [°C]	-96 °C	Flash point [°C]	110 °C	Boiling point [°C]	75 - 77 °C
Initial boiling point [°C]	75°C	Final boiling point [°C]	77 °C	Vapour density	4.24
Density [g/cm ³]	1.663	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	Colorless to Dark Yellow Liquid
Assay	Min 98.0%

Density (at 25°C)

1.648-1.651

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 1716

IMCO Class No.: 8

Packing Group: II

Hazardous Statement: H314

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

ACETYL BROMIDE AR

Ethanoyl Bromide

Product Code.	00042	Grade	
Purity	Min. 98%	CAS No.	506-96-7
Molecular Formula	CH ₃ COBr	Molecular Weight	122.95
H.S.Code	2915.90900	Shelf Life	60 MONTH

Physical Properties

Physical state @ 20oc	Liquid	Colour	Clear colorless	Odour	Pungent Odour
Melting Point/ freezing Point	96 C	Flash Point	110	Boiling Point	75-77oC
Initial Boiling Point	75C	Final Boiling Point	77C	Vapour Density	4.24
Density (g/cm3)`	1.663	Solubility in Water [% weight]	Soluble in water		

Packaging



Specification

Appearance	colorless to dark yellow liquid
Assay	Min. 98%
Density (at 25oC)	1.648-1.651

Safety Information and Hazard Symbols



ACETYL CHLORIDE 98% AR

Ethanoyl chloride; Acyl chloride

Liquid, d. 1.10

Product Code.	00044	Grade	AR
Purity	Min. 98-102%	CAS No.	75-36-5
Molecular Formula	CH ₃ COCl	Molecular Weight	78.50
H.S.Code	29159010.00000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Clear Colorless	Strong pungent odor
Melting point/ Freezing point [°C]	-112°C	Auto-ignition temperature [°C]	390°C	Flammability (solid, gas)	Highly flammable
Flash point [°C]	5 °C	Boiling point [°C]	52°C	Vapour pressure [20°C]	805,765 hPa
Vapour pressure mm/Hg	740	Vapour density	2.7	Density [g/cm ³]	1.11
Relative density, liquid (water=1)	1.104	Solubility in water [% weight]	Decomposes violently in water	Explosion limits - upper [%]	19%
Explosion limits -lower [%]	7.30%				

Packaging



Specification

Appearance	A clear colorless liquid
Assay	98 - 102%
Weight/ mL at 20°C	About 1.10 g/ml
Non volatile matter	Max 0.05%
Phosphorous compounds (P)	Max 0.005%

Sulphate (SO₄)

Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 1717

IMCO Class No.: 3,8

Packing Group: II

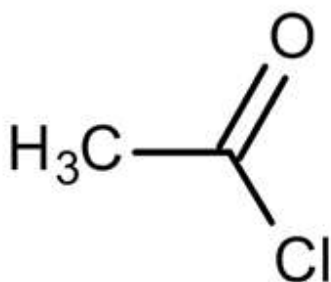
Hazardous Statement: H225-H314

Precaution Statement: P210-P280-P305 + P351 + P338-P310

ACETYL CHLORIDE 98% EXTRAPURE

Ethanoyl chloride; Acyl chloride

Product Code.	00043	Grade	Extrapure
Purity	98%	CAS No.	75-36-5
Molecular Formula	CH ₃ COCl	Molecular Weight	78.50
H.S.Code	2915.90100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Strong pungent odor
Melting point/ Freezing point [°C]	-112°C	Auto-ignition temperature [°C]	390°C	Flammability (solid, gas)	Highly flammable.
Flash point [°C]	5 °C	Boiling point [°C]	52°C	Vapour pressure [20°C]	805,765 hPa
Vapour pressure mm/Hg	740	Vapour density	2.7	Density [g/cm3]	1.11
Relative density, liquid (water=1)	1.104	Solubility in water [% weight]	Decomposes violently in water	Explosion limits - upper [%]	19%
Explosion limits -lower [%]	7.30%				

Packaging



Specification

Appearance	A clear liquid
Assay	98 - 102%
Weight/ mL at 20°C	About 1.10 g/ml
Non volatile matter	Max 0.05%
Phosphorous compounds (P)	Max 0.005%
Sulphate (SO4)	Max 0.01%

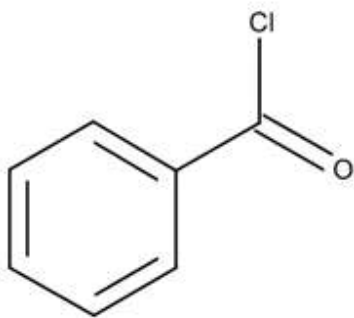
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05 Signal Word: Danger UN No.: 1717 IMCO Class No.: 3,8 Packing Group: II Hazardous Statement: H225-H314 Precaution Statement: P210-P280-P305 + P351 + P338-P310

BENZOYL CHLORIDE 98% EXTRAPURE

Benzenecarbonyl chloride; Benzoic acid chloride; alpha-Chloroenzaldehyde

Product Code.	00389	Grade	
Purity	98%	CAS No.	98-88-4
Molecular Formula	C6H5COCl	Molecular Weight	140.57
H.S.Code	2916.32000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Penetrating odor
pH value	2 at 1 g/l	Melting point/ Freezing point [°C]	-1 °C	Auto-ignition temperature [°C]	600°C
Flash point [°C]	72 °C	Boiling point [°C]	198 °C	Vapour pressure mm/Hg	1 mm Hg @ 320C
Vapour density	4.88	Density [g/cm3]	1.211	Solubility in water [% weight]	Decomposes by water
Explosion limits - upper [%]	4.90%	Explosion limits -lower [%]	1.20%		

Packaging



Specification

Appearance	A Clear colorless liquid.
Assay	Min 98%
Weight/ mL at 20°C	About 1.21 g
Non volatile matter	Max 0.05%
Phosphorous compounds (P)	Max 0.01%

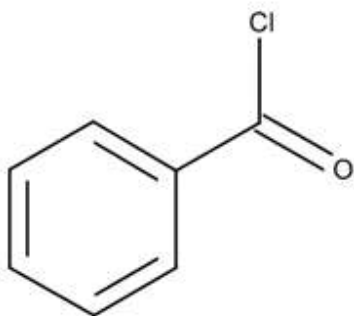
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 1736 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H302-H312-H314-H317-H332 Precaution Statement: P280-P305 + P351 + P338-P310

BENZOYL CHLORIDE 99% AR

Benzenecarbonyl chloride; Benzoic acid chloride; alpha-Chloroenzaldehyde

Product Code.	00390	Grade	AR
Purity	99%	CAS No.	98-88-4
Molecular Formula	C ₆ H ₅ COCl	Molecular Weight	140.57
H.S.Code	2916.32000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Penetrating odor
pH value	2 at 1 g/l	Melting point/ Freezing point [°C]	-1 °C	Auto-ignition temperature [°C]	600°C
Flash point [°C]	72 °C	Boiling point [°C]	198 °C	Vapour pressure mm/Hg	1 mm Hg @ 320C
Vapour density	4.88	Density [g/cm ³]	1.211	Solubility in water [% weight]	Decomposes by water
Explosion limits - upper [%]	4.90%	Explosion limits -lower [%]	1.20%		

Packaging



Specification

Appearance	Clear colorless liquid
Purity (by GC)	Min 99%
Phosphorous compounds (P)	Max 0.002%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 1736 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H302-H312-H314-H317-H332 Precaution Statement: P280-P305 + P351 + P338-P310

BENZOYL CHLORIDE ACS REAGENT 98+%

Product Code.	0390A	Grade	
Purity	98+%	CAS No.	98-88-4
Molecular Formula	C4H5ClO	Molecular Weight	140.57
H.S.Code	2916.32000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Penetrating odor
pH value	2 at 1 g/l	Melting point/ Freezing point [°C]	-1 °C	Auto-ignition temperature [°C]	600°C
Flash point [°C]	72 °C	Boiling point [°C]	198 °C	Vapour pressure mm/Hg	1 mm Hg @ 320C
Vapour density	4.88	Density [g/cm3]	1.211	Solubility in water [% weight]	Decomposes by water
Explosion limits - upper [%]	4.90%	Explosion limits -lower [%]	1.20%		

Packaging

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Specification

Appearance (Color)	Clear colorless
Appearance (Form)	Liquid
Infrared spectrum	Conforms
Titration excess NaOH	98.0 to 100.5 %
Heavy metals (as Pb)	=<10 ppm
Refractive index	1.5520 to 1.5540 (20°C, 589 nm)
Iron (Fe)	=<0.001 %
Residue after ignition	=<0.005 %
Phosphorous compounds (as P)	=<0.002 %
Freezing point	-2.0 to 0.0°C

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 1736

IMCO Class No.: 8

Packing Group: II

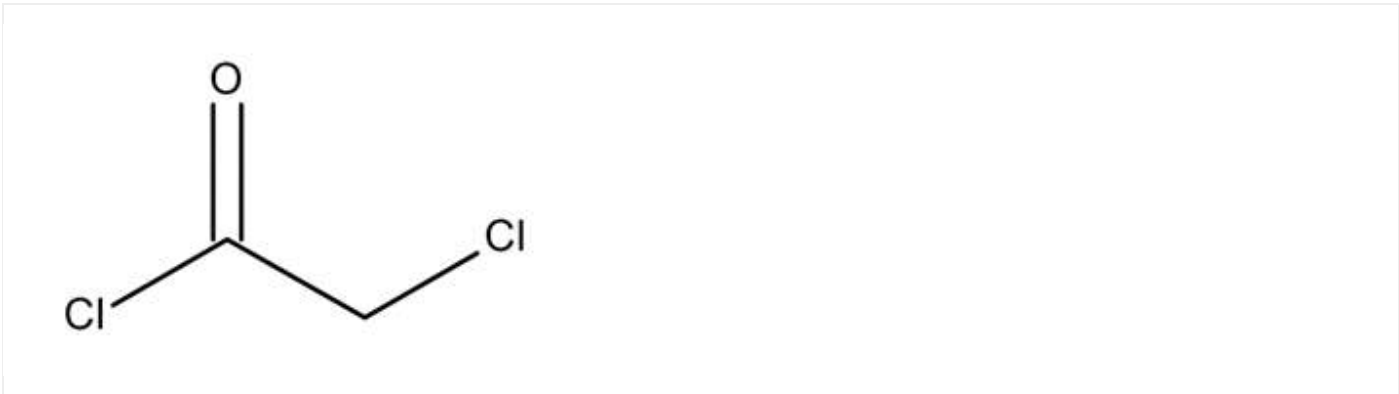
Hazardous Statement: H302-H312-H314-H317-H332

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

CHLOROACETYL CHLORIDE 98% FOR SYNTHESIS

Chloracetic chloride; Chloroacetic acid chloride

Product Code.	00750	Grade	For Synthesis
Purity	98%	CAS No.	79-04-9
Molecular Formula	C2H2Cl2O	Molecular Weight	112.94
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent
Odour threshold	0.011 ppm	Melting point/ Freezing point [°C]	-22 °C	Boiling point [°C]	105 - 106 °C
Initial boiling point [°C]	105°C	Final boiling point [°C]	106 °C	Vapour pressure [20°C]	2.5 kPa (@ 20°C)
Vapour density	3.9	Density [g/cm3]	1.419	Solubility in water [% weight]	Insoluble

Packaging

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Specification

Appearance	Clear colorless to light yellow fuming,liquid with pungent odor
Assay	Min 98.0%
Density (d20°C/4°C)	1.417 - 1.420 g/ml
Identity	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1752

IMCO Class No.: 6.1,8

Packing Group: I

Hazardous Statement: H301-H311-H314-H331-H372-H400

Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P310

CHLOROSULPHONIC ACID 97% FOR SYNTHESIS
Sulphuric chlorohydrin, Chlorosulphuric acid

Product Code.	00786	Grade	For Synthesis
Purity	97%	CAS No.	7790-94-5
Molecular Formula	HCIO3S	Molecular Weight	116.52
H.S.Code	2806.20000	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Yellow	pH value	1
Melting point/ Freezing point [°C]	-80°C	Boiling point [°C]	151 - 152 °C	Initial boiling point [°C]	151°C
Final boiling point [°C]	152 °C	Vapour pressure [20°C]	1 mm of Hg (@ 20°C)	Vapour pressure mm/Hg	1 mm of Hg (@ 20°C)
Vapour density	4.02	Density [g/cm3]	1.76	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	Clear to slightly hazy colorless to light yellow to light brown liquid
Assay (acidimetric)	Min 97.0%
Density (d20°C/4°C)	1.749 - 1.760 g/ml

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 1754

IMCO Class No.: 8

Packing Group: I

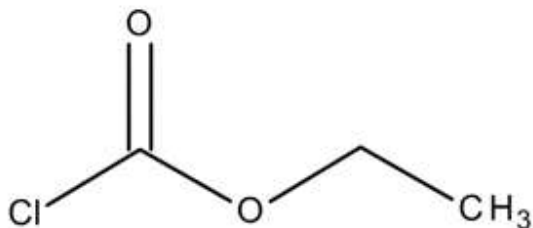
Hazardous Statement: H314-H335

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

ETHYL CHLOROFORMATE 98% FOR SYNTHESIS

Ethyl chlorocarbonate, Ethoxycarbonyl chloride

Product Code.	01157	Grade	For Synthesis
Purity	98%	CAS No.	541-41-3
Molecular Formula	C3H5ClO2	Molecular Weight	108.53
H.S.Code	2915.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	pH value	< 7
Melting point/ Freezing point [°C]	-81 °C	Flash point [°C]	10 °C	Boiling point [°C]	93 °C
Vapour pressure [20°C]	54 hPa at 20 °C	Vapour density	3.75	Density [g/cm3]	1.135
Solubility in water [% weight]	Insoluble	Partition coefficient Log Pow octanol / water at 20°C	0.3	Explosion limits - upper [%]	12.60%
Explosion limits -lower [%]	3.70%				

Packaging

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Specification

Appearance	Colorless to pale yellow clear liquid with a irritating odour
Colour scale	Max 50 APHA
Purity (by GC)	Min 98%
Density (d20°C/4°C)	1.138 - 1.140 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 1182

IMCO Class No.: 6.1,3,8

Packing Group: I

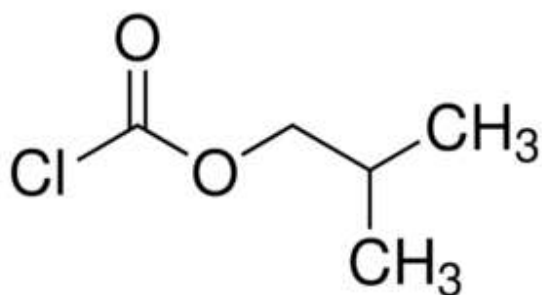
Hazardous Statement: H225-H302-H314-H330

Precaution Statement: P210-P260-P280-P284-P305 + P351 + P338-P310

ISO-BUTYLCHLOROFORMATE 98% FOR SYNTHESIS

Chloroformic acid isobutyl ester, IBCF

Product Code.	00573	Grade	For Synthesis
Purity	98%	CAS No.	543-27-1
Molecular Formula	C5H9ClO2	Molecular Weight	136.58
H.S.Code	2915.90200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless	Flash point [°C]	36
Initial boiling point [°C]	128.8	Vapour pressure [20°C]	22.8 hPa	Relative density, liquid (water=1)	1.053 g/cm3 at 25°C
Partition coefficient Log Pow octanol / water at 20°C	log Pow: 1.996				

Packaging



Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 98.0%
Density (at 20°C)	About 1.053 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 2742

IMCO Class No.: 6.1,3,8

Packing Group: II

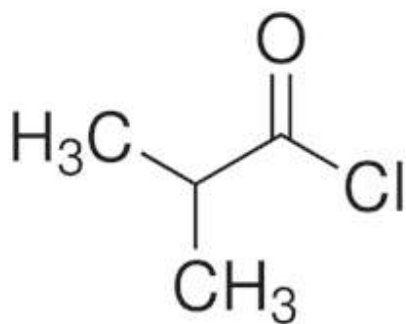
Hazardous Statement: H226-H302-H314-H331

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

ISO-BUTYRYL CHLORIDE 98% FOR SYNTHESIS

2-Methyl propionyl chloride

Product Code.	00590	Grade	
Purity	98%	CAS No.	79-30-1
Molecular Formula	C4H7ClO	Molecular Weight	106.55
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless	Odour	Stench
Melting point/ Freezing point [°C]	-90	Flash point [°C]	8	Initial boiling point [°C]	91 - 93
Vapour pressure [20°C]	70.9 hPa	Relative density, liquid (water=1)	1.017 g/cm3	Explosion limits - upper [%]	8.2 %(V)
Explosion limits -lower [%]	2.1 %(V)				

Packaging



Specification

Appearance	A clear colourless liquid
Assay	Min. 98.0%
Density (at 25°C)	1.008 - 1.009 g/mL

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 2395

IMCO Class No.: 3,8

Packing Group: II

Hazardous Statement: H225-H314

Precaution Statement: P210-P280-P305 + P351 + P338-P310

ISOBUTYRYL CHLORIDE, 98%

Product Code.	0590A	Grade	
Purity	98%	CAS No.	79-30-1
Molecular Formula	C4H7ClO	Molecular Weight	106.55
H.S.Code	2915.90900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless	Odour	Stench
Melting point/ Freezing point [°C]	-90	Flash point [°C]	8	Initial boiling point [°C]	91 - 93
Vapour pressure [20°C]	70.9 hPa	Relative density, liquid (water=1)	1.017 g/cm3	Explosion limits - upper [%]	8.2 %(V)
Explosion limits -lower [%]	2.1 %(V)				

Packaging

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Specification

Appearance (Form)	Clear liquid
Color scale	=<50 APHA
Infrared spectrum	Conforms
GC	>=97.5 %
Refractive index	1.4060 to 1.4080 (20°C, 589 nm) Date

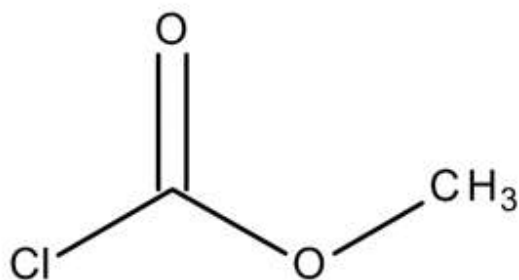
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05 Signal Word: Danger UN No.: 2395 IMCO Class No.: 3,8 Packing Group: II Hazardous Statement: H225-H314 Precaution Statement: P210-P280-P305 + P351 + P338-P310

METHYL CHLOROFORMATE 98% FOR SYNTHESIS

Chloroformic acid methyl ester

Product Code.	01717	Grade	For Synthesis
Purity	98%	CAS No.	79-22-1
Molecular Formula	C2H3ClO2	Molecular Weight	94.50
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless	Melting point/ Freezing point [°C]	-81 °C
Critical temperature [°C]	252 °C	Auto-ignition temperature [°C]	485 °C	Flash point [°C]	10 °C
Boiling point [°C]	70 - 72 °C	Initial boiling point [°C]	70 °C	Final boiling point [°C]	72 °C
Vapour pressure [20 °C]	108.5 mm of Hg (@ 20 °C)	Vapour pressure mm/Hg	108.5 mm of Hg (@ 20 °C)	Vapour density	>1
Density [g/cm3]	1.223	Solubility in water [% weight]	Insoluble in water		

Packaging

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Specification

Appearance	A clear colorless to light yellow liquid
Purity (by GC)	Min 98.0%
Density (d20°C/4°C)	1.227 - 1.229 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 1238

IMCO Class No.: 6.1, 3, 8

Packing Group: I

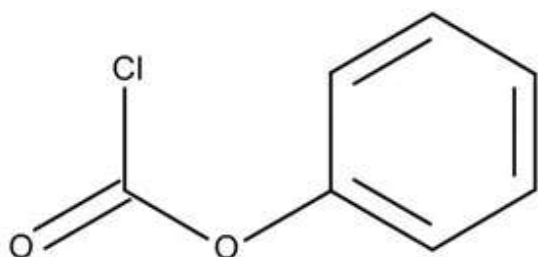
Hazardous Statement: H225-H302-H312-H314-H330

Precaution Statement: P210-P280-P305 + P351 + P338-P310

PHENYL CHLOROFORMATE 98% FOR SYNTHESIS

Chloroformic acid phenyl ester

Product Code.	01987	Grade	For Synthesis
Purity	98%	CAS No.	1885-14-9
Molecular Formula	C7H5ClO3	Molecular Weight	156.57
H.S.Code	2915.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Melting point/ Freezing point [°C]	-25 °C
Auto-ignition temperature [°C]	> 500 °C	Flash point [°C]	69 °C	Boiling point [°C]	74 - 75 °C
Initial boiling point [°C]	74°C	Final boiling point [°C]	75 °C	Vapour pressure [20°C]	0.89 hPa at 20 °C
Vapour density	5.4	Density [g/cm3]	1.248	Partition coefficient Log Pow octanol / water at 20°C	1.954

Packaging

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Specification

Appearance	Colorless liquid
Purity (by GC)	Min. 98.0%
Density (d20°C/4°C)	1.240 - 1.245 g/ml
Identity (IR)	Conforms

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 2746

IMCO Class No.: 6.1,8

Packing Group: II

Hazardous Statement: H302-H314-H330

Precaution Statement: P260-P280-P284-P305 + P351 + P338-P310

PHOSPHOPRUS OXYCHLORIDE 98% EXTRAPURE (2X 500ML)

Phosphorus (III) chloride

Product Code.	02015	Grade	
Purity	99%	CAS No.	7719-12-2
Molecular Formula	POCl3	Molecular Weight	137.33
H.S.Code	2812.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Pungent, irritating odor
pH value	1	Melting point/ Freezing point [°C]	-112 °C	Boiling point [°C]	74 - 78 °C
Initial boiling point [°C]	74°C	Final boiling point [°C]	78 °C	Vapour pressure [20°C]	131 hPa at 20 °C
Vapour density	4.74	Density [g/cm3]	1.57	Solubility in water [% weight]	Decomposes exothermically in water

Specification

Appearance	A clear colorless liquid with pungent odor.
Assay (argentometric)	Min 99%
Density (d20°C/4°C)	1.572 - 1.574
Refractive index (20°C; 589 nm)	1.5200

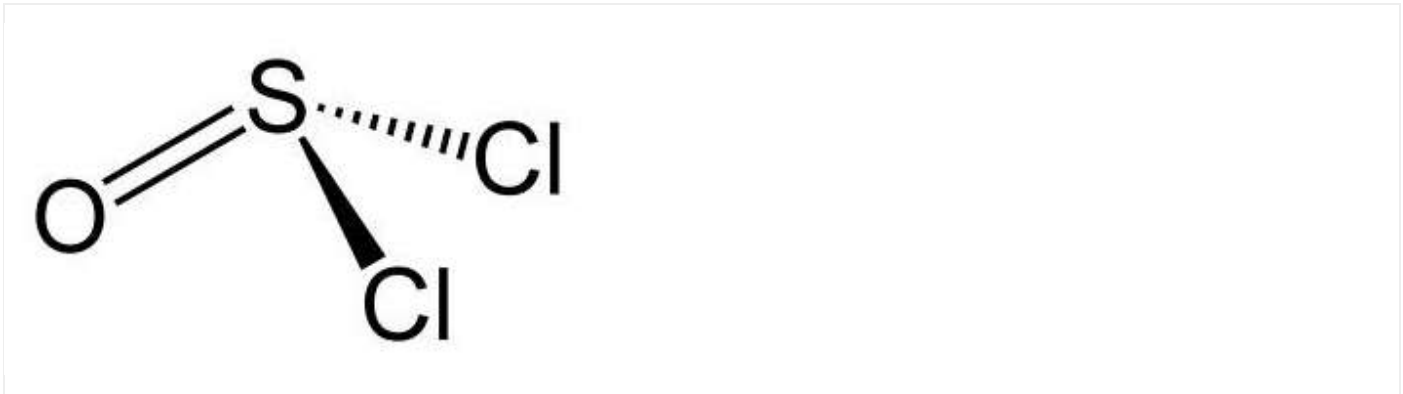
Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS08 Signal Word: Danger UN No.: 1809 IMCO Class No.: 6.1,8 Packing Group: I Hazardous Statement: H300-H314-H330-H373 Precaution Statement: P260-P264-P280-P284-P301 + P310-P305 + P351 + P338

THIONYL CHLORIDE 99% FOR SYNTHESIS

Sulfurous dichloride; Thionyl dichloride; Sulfurous oxychloride; Sulfinyl chloride; sulfinyl dichloride; Dichlorosulfoxide; Sulfur oxide dichloride; Sulfur monoxide dichloride; Sulfuryl(IV) chloride

Product Code.	02683	Grade	For Synthesis
Purity	99%	CAS No.	7719-09-7
Molecular Formula	Cl2OS	Molecular Weight	118.97
H.S.Code	2812.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	clear colorless to pale yellow	Odour	Characteristic, pungent odor
Melting point/ Freezing point [°C]	-105 °C	Boiling point [°C]	79 °C	Vapour pressure [20°C]	129 hPa at 20 °C
Vapour density	4.1	Density [g/cm3]	1.64	Solubility in water [% weight]	Decomposes in water

Packaging

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Specification

Appearance	Clear colorless to light yellow liquid
Assay	Min 99%
Density (d20°C/4°C)	1.635 - 1.638 g/ml

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 1836

IMCO Class No.: 8

Packing Group: I

Hazardous Statement: H302-H314-H332

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

По вопросам продаж и поддержки обращайтесь:

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