

ислот ор анические

Технические характеристики

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Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
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Смоленск (4812)29-41-54
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Улан-Удэ (3012)59-97-51
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Чита (3022)38-34-83
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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

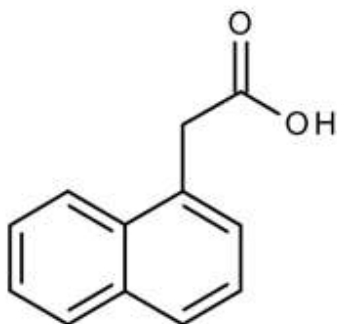
Киргизия +996(312)96-26-47

эл.почта: pva@nt-rt.ru || сайт: <https://pallav.nt-rt.ru/>

1-NAPHTHYLACETIC ACID 99% FOR SYNTHESIS

NAA, Naphthalene-1-acetic acid

Product Code.	01788	Grade	For Synthesis
Purity	99%	CAS No.	86-87-3
Molecular Formula	C12H10O2	Molecular Weight	186.21
H.S.Code	2916.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to off white / cream to light yellow or beige powder.	Odour	Odorless
Melting point/ Freezing point [°C]	129- 131.5°C	Solubility in water [% weight]	0.38 g/l (170C)		

Packaging

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Specification

Appearance	White to off white / cream to light yellow or beige powder.
Assay (alkalimetric)	Min 99%
Melting point	128 - 131 °C
Sulphated ash	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

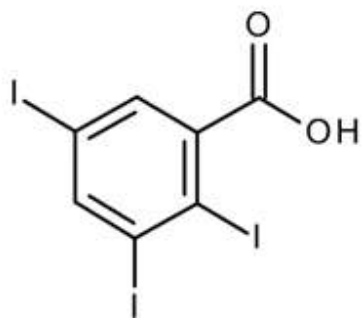
Signal Word: Danger

Hazardous Statement: H302-H315-H318-H335

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

2,3,5-TRIIODOBENZOIC ACID 97% AR TIBA

Product Code.	02769	Grade	AR
Purity	97%	CAS No.	88-82-4
Molecular Formula	C7H3I3O2	Molecular Weight	499.81
H.S.Code	2916.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light brown	Melting point/ Freezing point [°C]	220 - 222 °C
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	Off White to Light Beige to Brown Powder
Purity	Min 97.0%
Melting point	223 - 228°C
Solubility (1 g in 10 mL dioxane)	Clear

Safety Information and Hazard Symbols



Symbol: GHS07

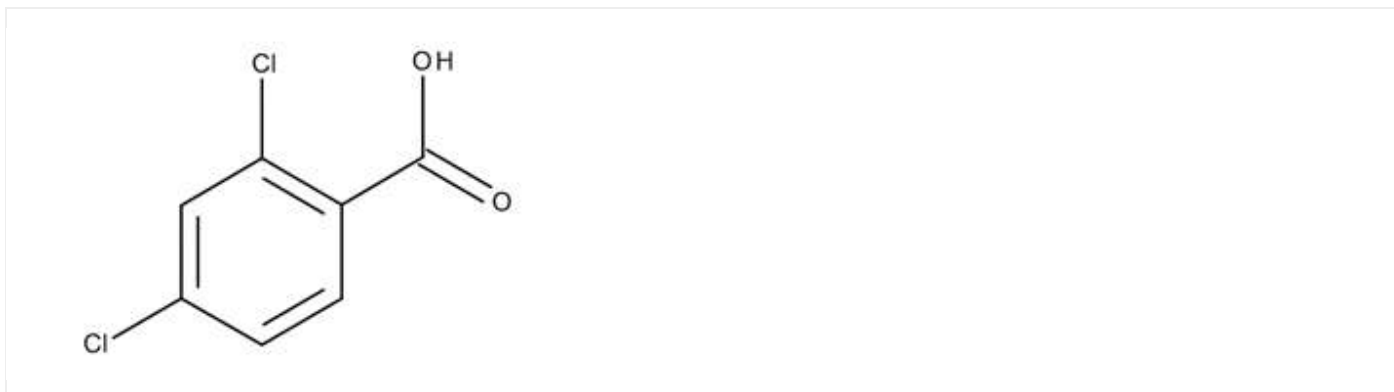
Signal Word: Warning

Hazardous Statement: H302

2,4-DICHLOROBENZOIC ACID 98% FOR SYNTHESIS

2,4-DCBA

Product Code.	00965	Grade	
Purity	98%	CAS No.	50-84-0
Molecular Formula	C7H4Cl2O2	Molecular Weight	191.01
H.S.Code	2916.39900	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	Light brown	Melting point/ Freezing point [°C]	157 - 160 °C
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Specification

Appearance	White crystalline powder
Assay (titration)	Min 98%
Melting range	160 - 164 deg C
Identity (IR)	Passes test

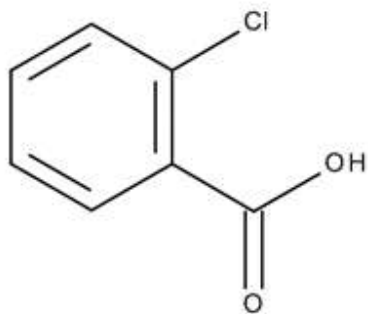
Safety Information and Hazard Symbols


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

2-CHLOROBENZOIC ACID 98% FOR SYNTHESIS

2-Chlorobenzoic Acid

Product Code.	00760	Grade	
Purity	98%	CAS No.	118-91-2
Molecular Formula	C7H5ClO2	Molecular Weight	156.57
H.S.Code	2916.31600	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Melting point/ Freezing point [°C]	138 - 140 °C
Flash point [°C]	173 °C	Density [g/cm3]	1.544		

Packaging

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Specification

Appearance	White powder
Assay	Min 98.0%
Melting point	139 -142°C
Sulphated ash	Max 0.1%
Sulphate (SO4)	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

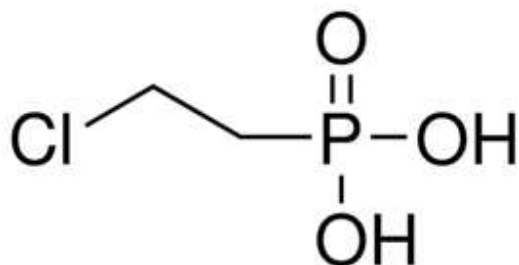
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

2-CHLOROETHYL PHOSPHONIC ACID 39% EXTRAPURE

Ethephon

Product Code.	00768	Grade	Extrapure
Purity	39%	CAS No.	16672-87-0
Molecular Formula	C2H6ClO3P	Molecular Weight	144.49
H.S.Code	2931.90900	Shelf Life	60 Months



Physical Properties

Packaging

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Specification

Appearance	Clear colorless to pale yellow liquid
Assay	Min 39%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2928

IMCO Class No.: 6.1,8

Packing Group: II

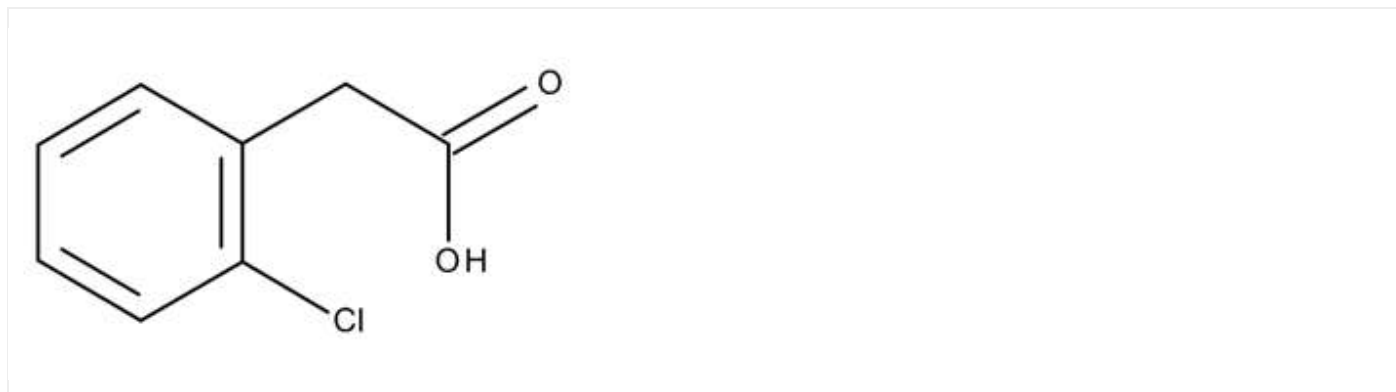
Hazardous Statement: H312-H314-H332-H412

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

2-CHLOROPHENYL ACETIC ACID 99% FOR SYNTHESIS

Acetic acid 4-chlorophenyl ester

Product Code.	00783	Grade	
Purity	99%	CAS No.	2444-36-2
Molecular Formula	C8H7ClO2	Molecular Weight	170.60
H.S.Code	2916.31600	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Melting point/ Freezing point [°C]	92 - 95 °C
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Specification

Appearance	Colorless crystals.
Assay (titration)	Min 99%
Melting range	93 - 96 deg C
Identity (IR)	Passes test

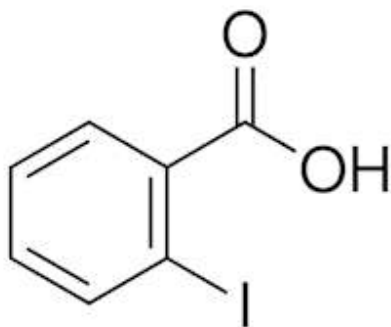
Safety Information and Hazard Symbols


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

2-iodobenzoic acid 97.5% FOR SYNTHESIS

o-Iodobenzoic acid

Product Code.	01464	Grade	For Synthesis
Purity	97.5%	CAS No.	88-67-5
Molecular Formula	C7H5IO2	Molecular Weight	248.02
H.S.Code	2916.31900	Shelf Life	60 Months



Specification

Appearance	White to pale yellow powder
Assay (alkalimetric)	97.5 - 102.5%
Melting range	160 - 164°C
Solubility (5% in ethanol)	Clear to slight hazy & light yellow colour

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

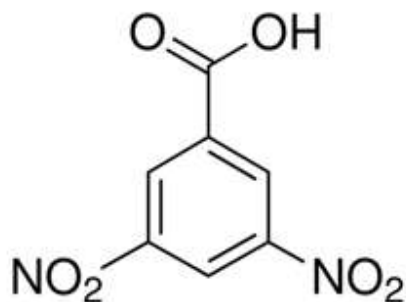
Hazardous Statement: H302-H315-H318-H335

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

3,5-DINITROBENZOIC ACID 99% AR

Reagent for determination of Creatinine. 3-Carboxy-1,5-dinitrobenzene. DNBA

Product Code.	01059	Grade	
Purity	99%	CAS No.	99-34-3
Molecular Formula	C7H4N2O6	Molecular Weight	212.12
H.S.Code	2916.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow crystalline	pH value	2.7
Melting point/ Freezing point [°C]	204 - 206 °C	Density [g/cm ³]	1.683	Solubility in water [% weight]	Insoluble in water
Partition coefficient Log Pow octanol / water at 20°C	1.64				

Specification

Appearance	A yellowish crystalline powder
Assay (alkalimetric)	Min 99%
Melting range	204 - 208°C

Safety Information and Hazard Symbols

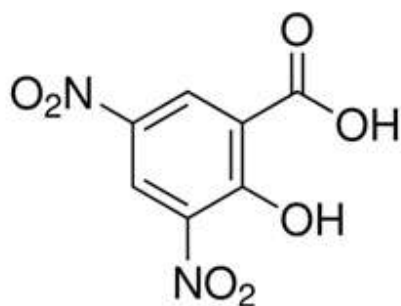


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H302-H315-H319-H335-H413
Precaution Statement: P261-P305 + P351 + P338

3,5-DINITROSALICYLIC ACID 97% FOR SYNTHESIS

3,5-Dinitro-2-hydroxybenzoic acid

Product Code.	01065	Grade	For Synthesis
Purity	97%	CAS No.	609-99-4
Molecular Formula	C7H4N2O7	Molecular Weight	228.12
H.S.Code	2918.21900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow Crystals	pH value	1.3-1.8 (10g/L @ 20°C)
Melting point/ Freezing point [°C]	168 - 172 °C	Solubility in water [% weight]	Soluble in alcohol and benzene		

Specification

Appearance	Yellow colored powder
Assay	Min 97.0%
Melting point	170 - 174°C

Safety Information and Hazard Symbols

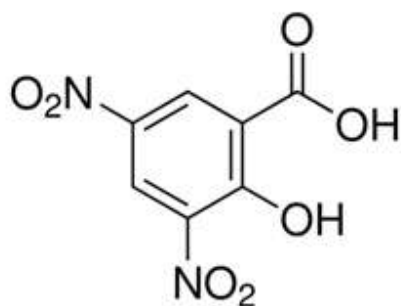


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H302-H315-H335
Precaution Statement: P261

3,5-DINITROSALICYLIC ACID 98% AR

3,5-Dinitro-2-hydroxybenzoic acid

Product Code.	01066	Grade	
Purity	98%	CAS No.	609-99-4
Molecular Formula	C7H4N2O7	Molecular Weight	228.12
H.S.Code	2918.21900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow Crystals	pH value	1.3-1.8 (10g/L @ 20°C)
Melting point/ Freezing point [°C]	168 - 172 °C	Solubility in water [% weight]	Soluble in alcohol and benzene		

Specification

Appearance	Yellow colored powder
Assay	Min 98%
Melting point	169 - 170°C
Function test :	
Suitability (as reagent for determination of amylase activity)	Passes test

Safety Information and Hazard Symbols

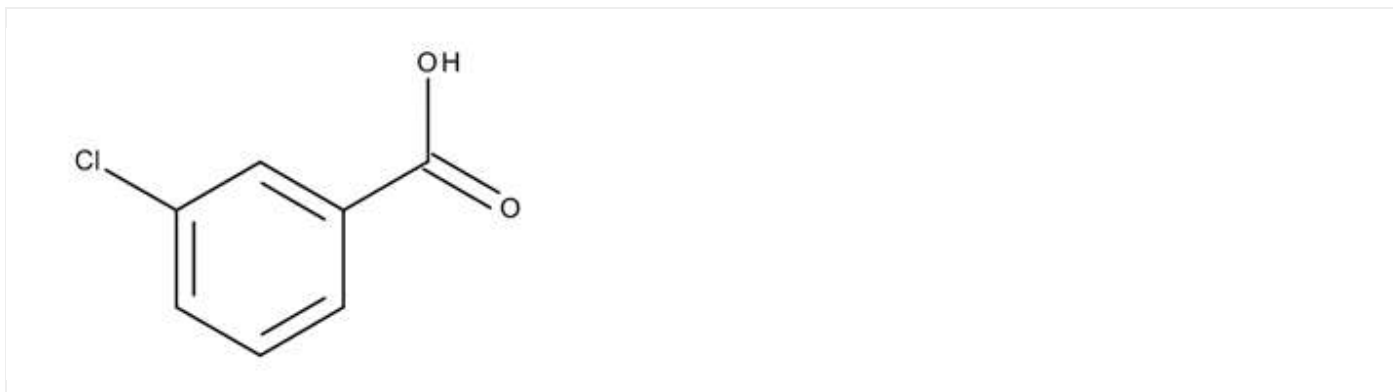


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H302-H315-H335
Precaution Statement: P261

3-CHLOROBENZOIC ACID 98% FOR SYNTHESIS

3-Chlorobenzoic acid

Product Code.	00759	Grade	For Synthesis
Purity	98%	CAS No.	535-80-8
Molecular Formula	C7H5ClO2	Molecular Weight	156.57
H.S.Code	2916.31600	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint odour
pH value	4.5	Melting point/ Freezing point [°C]	69 - 71 °C	Decomposition point [°C]	> 60°C
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 98%
Melting range	153 - 156 deg C
Identity (IR)	Passes test

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

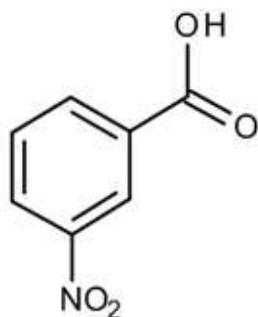
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

3-NITROBENZOIC ACID 98% FOR SYNTHESIS

3-Nitrobenzoic acid

Product Code.	01856	Grade	
Purity	98%	CAS No.	121-92-6
Molecular Formula	C7H5NO4	Molecular Weight	167.12
H.S.Code	2916.31900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow crystalline	pH value	3
Melting point/ Freezing point [°C]	139 - 141 °C	Auto-ignition temperature [°C]	490 °C	Flash point [°C]	190 °C
Vapour density	5.76	Density [g/cm3]	1.49	Solubility in water [% weight]	3 g/l at 25 °C
Partition coefficient Log Pow octanol / water at 20°C	1.82				

Packaging

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Specification

Appearance	Yellow crystalline powder
Assay	Min 98%
Melting range	139 - 142°C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

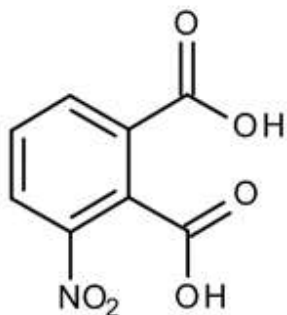
Hazardous Statement: H302-H315-H319-H335-H412

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

3-NITROPHTHALIC ACID 98% FOR SYNTHESIS

m-Nitrophthalic acid

Product Code.	01868	Grade	
Purity	98%	CAS No.	603-11-2
Molecular Formula	C8H5NO6	Molecular Weight	211.13
H.S.Code	2917.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow crystalline	Melting point/ Freezing point [°C]	210 °C
Decomposition point [°C]	216 °C	Vapour density	7.3	Solubility in water [% weight]	Insoluble in water

Packaging

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Specification

Appearance	Pale yellow crystalline powder
Assay (argentometric)	Min 98%
Melting range	210 - 215°C
Identity (IR)	Conforms

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

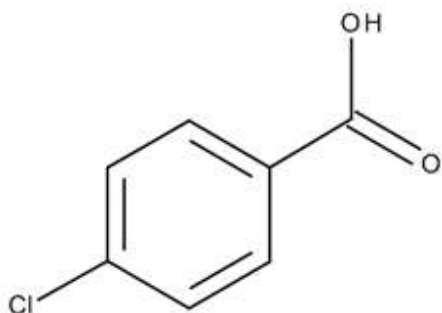
Hazardous Statement: H315-H318-H335

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

4-CHLOROBENZOIC ACID 99% FOR SYNTHESIS

4-Chlorobenzoic acid

Product Code.	00761	Grade	
Purity	99%	CAS No.	74-11-3
Molecular Formula	C7H5ClO2	Molecular Weight	156.57
H.S.Code	2916.31900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Pale yellow to white	Odour	Faint odour
Melting point/ Freezing point [°C]	238 - 241 °C	Flash point [°C]	238 °C		

Packaging

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Specification

Appearance	Pale yellow to white crystalline powder
Assay	Min 99%
Melting point	237 - 242 ° C
Sulphated ash	Max 0.05%
Sulphate (SO4)	Max 0.03%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

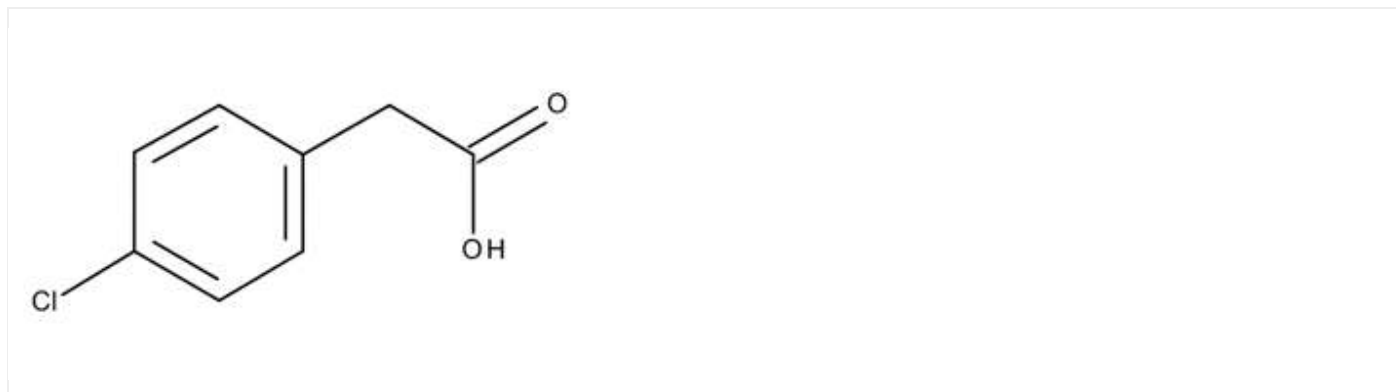
Hazardous Statement: H302-H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

4-CHLOROPHENYL ACETIC ACID 96% FOR SYNTHESIS

Acetic acid 4-chlorophenyl ester

Product Code.	00784	Grade	
Purity	96%	CAS No.	1878-66-6
Molecular Formula	C8H7ClO2	Molecular Weight	170.60
H.S.Code	2916.31600	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	102 - 105 °C
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Specification

Appearance	A white crystalline powder
Assay (titration)	Min 96%
Melting range	101 - 104 deg C
Identity (IR)	Passes test

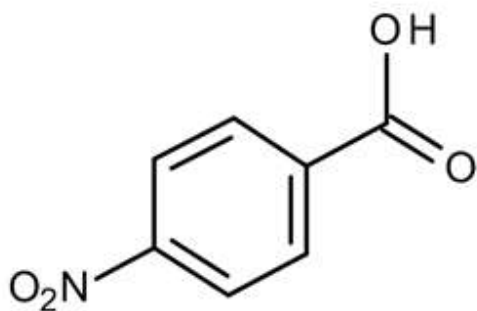
Safety Information and Hazard Symbols


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

4-NITROBENZOIC ACID 98% FOR SYNTHESIS

4-Nitrobenzoic acid

Product Code.	01857	Grade	For Synthesis
Purity	98%	CAS No.	62-23-7
Molecular Formula	C7H5NO4	Molecular Weight	167.12
H.S.Code	2916.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow crystalline	Melting point/ Freezing point [°C]	237 - 240 °C
Flash point [°C]	237 °C	Density [g/cm ³]	1.494	Solubility in water [% weight]	Soluble in water

Specification

Appearance	Yellow crystalline powder
Assay (alkalimetric)	Min 98.0%
Melting range	239 - 242°C

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

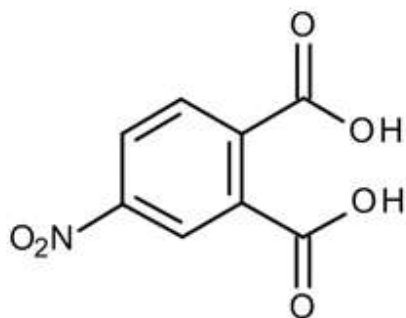
Hazardous Statement: H302-H318

Precaution Statement: P280-P305 + P351 + P338

4-NITROPHTHALIC ACID 80% FOR SYNTHESIS

p-Nitrophthalic acid

Product Code.	01869	Grade	For Synthesis
Purity	80%	CAS No.	610-27-5
Molecular Formula	C8H5NO6	Molecular Weight	211.13
H.S.Code	2917.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light yellow	Odour	Odorless
pH value	1	Melting point/ Freezing point [°C]	159 - 161 °C	Solubility in water [% weight]	880 g/l at 20 °C

Specification

Appearance	Yellow to orange to tan powder
Purity (by GC)	About 80%
3-Nitrophthalic acid (HPLC, area %)	About 20%
Identity (IR)	Conforms

Safety Information and Hazard Symbols

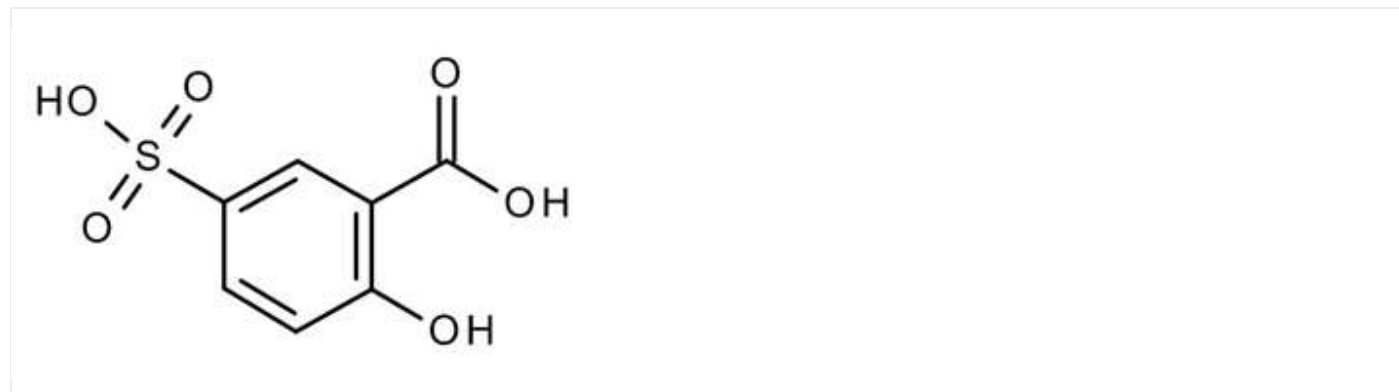


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315-H319-H335
Precaution Statement: P261-P305 + P351 + P338

5-SULPHOSALICYLIC ACID DIHYDRATE 99% EXTRAPURE

2-Hydroxy-5-sulfobenzoic acid ; 5-sulphosalicylic acid

Product Code.	02593	Grade	Extrapure
Purity	99%	CAS No.	5965-83-3
Molecular Formula	C7H6O6S.2H2O	Molecular Weight	254.21
H.S.Code	2918.23900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
Melting point/ Freezing point [°C]	110 - 112 °C	Solubility in water [% weight]	127.1 g/l at 20 °C		

Packaging

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Specification

Appearance	White crystalline powder.
Assay (by NaOH titration)	Min 99.0%
Residue on ignition	Max 0.1%
Iron (Fe)	Max 0.005%
Heavy metal (as Pb)	Max 0.01%
Chloride (Cl)	Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

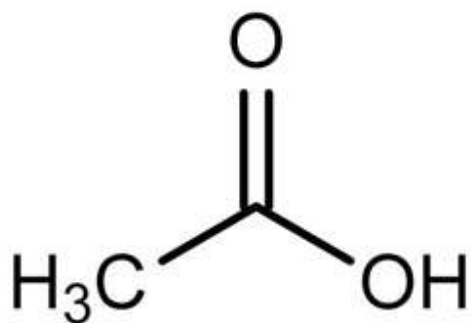
Hazardous Statement: H302-H314

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

ACETIC ACID GLACIAL 99.5% EXTRAPURE

Ethanoic acid

Product Code.	00014	Grade	Extrapure
Purity	99.5%	CAS No.	64-19-7
Molecular Formula	CH ₃ COOH	Molecular Weight	60.05
H.S.Code	2915.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Strong, vinegar-like
pH value	2.4	Melting point/ Freezing point [°C]	16.2 °C	Auto-ignition temperature [°C]	485 °C
Flash point [°C]	40°C	Boiling point [°C]	117 - 118 °C	Initial boiling point [°C]	117°C
Final boiling point [°C]	118°C	Evaporation rate	0.97	Vapour pressure [20°C]	15.2 hPa at 20°C
Vapour density	2.1	Density [g/cm ³]	1.049	Solubility in water [% weight]	Complete
Partition coefficient Log Pow octanol / water at 20°C	0.17	Explosion limits - upper [%]	19.90%	Explosion limits -lower [%]	4%

Packaging



Specification

Appearance	Clear colorless Liquid
Assay (alkalimetric)	Min 99.5%
Weight/ mL at 20°C	1.047 - 1.052 g/ml
Freezing point	15.5 °C
Chloride (Cl)	Max 0.0005%
Sulphate (SO ₄)	Max 0.0005%
Arsenic (As)	Max 0.0002%
Iron (Fe)	Max 0.0002%
Lead (Pb)	Max 0.0002%
Non volatile matter	Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 2789

IMCO Class No.: 8,3

Packing Group: II

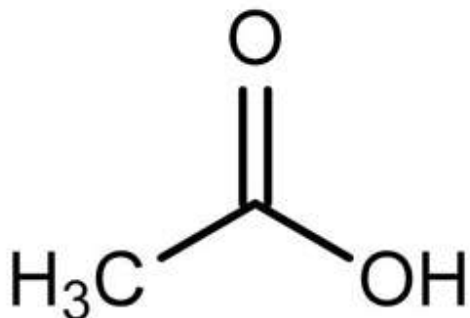
Hazardous Statement: H226-H314

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

ACETIC ACID GLACIAL 99.7% AR (ALDEHYDE FREE)

Specially suitable for use in determination of total cholesterol in blood plasma by MacIntyre and Ralston's method. Ethanoic acid

Product Code.	00016	Grade	AR
Purity	99.7%	CAS No.	64-19-7
Molecular Formula	CH ₃ COOH	Molecular Weight	60.05
H.S.Code	2915.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Strong, vinegar-like
pH value	2.4	Melting point/ Freezing point [°C]	16.2 °C	Auto-ignition temperature [°C]	485 °C
Flash point [°C]	40°C	Boiling point [°C]	117 - 118 °C	Initial boiling point [°C]	117°C
Final boiling point [°C]	118°C	Evaporation rate	0.97	Vapour pressure [20°C]	15.2 hPa at 20°C
Vapour density	2.1	Density [g/cm ³]	1.049	Solubility in water [% weight]	Complete
Partition coefficient Log Pow octanol / water at 20°C	0.17	Explosion limits - upper [%]	19.90%	Explosion limits -lower [%]	4%

Packaging



Specification

Appearance	Clear colorless Liquid
Assay (alkalimetric)	Min 99.7%
Acetaldehyde (CH ₃ .CHO)	Max 0.0002%
Acetone (CH ₃ .CO.CH ₃)	Max 0.0001%
Weight/ mL at 20°C	1.048 - 1.050 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 2789

IMCO Class No.: 8,3

Packing Group: II

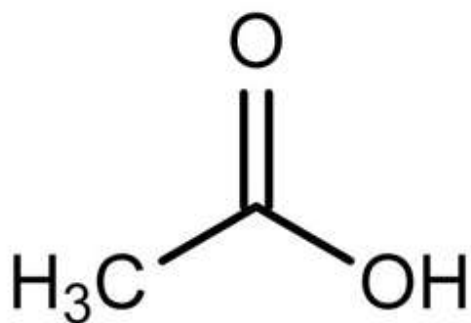
Hazardous Statement: H226-H314

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

ACETIC ACID GLACIAL 99.7% AR (INDIFFERENT TO CHROMIC ACID)

Ethanoic acid

Product Code.	00015	Grade	AR
Purity	99.7%	CAS No.	64-19-7
Molecular Formula	CH ₃ COOH	Molecular Weight	60.05
H.S.Code	2915.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Strong, vinegar-like
pH value	2.4	Melting point/ Freezing point [°C]	16.2 °C	Auto-ignition temperature [°C]	485 °C
Flash point [°C]	40°C	Boiling point [°C]	117 - 118 °C	Initial boiling point [°C]	117°C
Final boiling point [°C]	118°C	Evaporation rate	0.97	Vapour pressure [20°C]	15.2 hPa at 20°C
Vapour density	2.1	Density [g/cm ³]	1.049	Solubility in water [% weight]	Complete
Partition coefficient Log Pow octanol / water at 20°C	0.17	Explosion limits - upper [%]	19.90%	Explosion limits -lower [%]	4%

Packaging



Specification

Appearance	Clear colorless liquid
Assay (alkalimetric)	Min 99.7%
Freezing point	Min 16.2°C
Weight/ mL at 20°C	1.048 - 1.050 g/ml
Acetic anhydride [(CH ₃ CO) ₂ O]	Max 0.2%
Formate (HCOO)	Max 0.05%
Insoluble matter in water	Passes test
Water (H ₂ O)	Max 0.2%
Sulphate (SO ₄)	Max 0.0001%
Non volatile matter	Max 0.001%
Chloride (Cl)	Max 0.0001%
Arsenic (As)	Max 0.00005%
Copper (Cu)	Max 0.00004%
Iron (Fe)	Max 0.00002%
Lead (Pb)	Max 0.00001%
Substance reducing dichromate (O)	Max 0.003%

Safety Information and Hazard Symbols



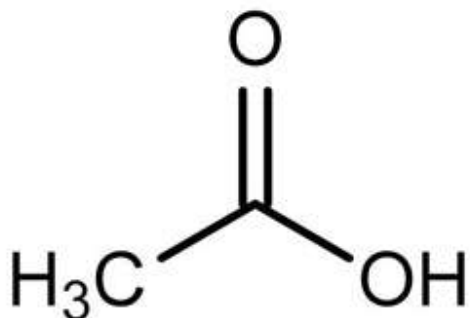
Symbol: GHS02, GHS05
Signal Word: Danger
UN No.: 2789
IMCO Class No.: 8,3
Packing Group: II
Hazardous Statement: H226-H314
Precaution Statement: P280-P305 + P351 + P338-P310

ACETIC ACID GLACIAL FOR HPLC AND SPECTROSCOPY

Microfiltered product (0.2 mm) and bottled under nitrogen atmosphere. For critical jobs, purge with nitrogen.

Ethanoic acid

Product Code.	00017	Grade	
Purity	Min 99.8%	CAS No.	64-19-7
Molecular Formula	CH ₃ COOH	Molecular Weight	60.05
H.S.Code	2915.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Strong, vinegar-like
pH value	2.4	Melting point/ Freezing point [°C]	16.2 °C	Auto-ignition temperature [°C]	485 °C
Flash point [°C]	40°C	Boiling point [°C]	117 - 118 °C	Initial boiling point [°C]	117°C
Final boiling point [°C]	118°C	Evaporation rate	0.97	Vapour pressure [20°C]	15.2 hPa at 20°C
Vapour density	2.1	Density [g/cm ³]	1.049	Solubility in water [% weight]	Complete
Partition coefficient Log Pow octanol / water at 20°C	0.17	Explosion limits - upper [%]	19.90%	Explosion limits -lower [%]	4%

Packaging



Specification

Appearance	Clear colourless liquid
Assay (alkalimetric)	Min. 99.8%
Identity	Passes test
APHA colour	Max. 10
Non volatile matter	Max. 0.001%
Water (by KF)	Max. 0.05%
UV transmittance (1 cm cell; ref.:water)	
at 254 nm	Min. 25%
at 280 nm	Min. 95%
at 300 nm	Min. 98%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 2789

IMCO Class No.: 8,3

Packing Group: II

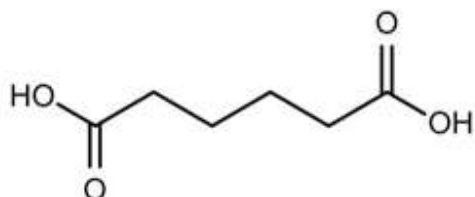
Hazardous Statement: H226-H314

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

ADIPIC ACID 99% PURE

Confirms to BP, USP/NF Hexanedioic acid

Product Code.	00074	Grade	
Purity	Min. 99%	CAS No.	124-04-9
Molecular Formula	C6H10O4	Molecular Weight	146.14
H.S.Code	2917.12000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	3.2	Melting point/ Freezing point [°C]	151 - 154 °C	Auto-ignition temperature [°C]	405 °C
Flash point [°C]	196 °C	Boiling point [°C]	265 °C	Vapour pressure mm/Hg	1 mm Hg at 159.5 °C
Vapour density	5.04	Density [g/cm ³]	1.36	Solubility in water [% weight]	Slightly soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.093				

Packaging



Specification

Appearance	White powder or crystalline powder
Assay	99.0-101.0%
Solubility	Passes test
Melting point	151-154°C
Identity (IR)	Passes test
Appearance of solution	Passes test
Chloride (Cl)	Max 0.02%
Nitrate (NO ₃)	Max 0.003%
Sulphate (SO ₄)	Max 0.05%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Loss on drying	Max 0.2%
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

ADIPIC ACID AR

Product Code.	00075	Grade	
Purity	Min. 99.5%	CAS No.	124-04-9
Molecular Formula	C6H10O4	Molecular Weight	146.14
H.S.Code	29171200.00000	Shelf Life	

Physical Properties

Physical state at 20 °C	Solid	Colour	White Powder	Odour	Odourless
pH value	3.2	Melting point/ Freezing point [°C]	151 - 154 °C	Auto-ignition temperature [°C]	405 °C
Flash point [°C]	196 °C	Boiling point [°C]	265 °C	Vapour pressure mm/Hg	1 mm Hg at 159.5 °C
Vapour density	5.04	Density [g/cm3]	1.36	Solubility in water [% weight]	Slightly soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.093				

Packaging



Specification

Appearance	White powder
Assay	99.0-101.0%
Solubility	Passes test
Melting point	151-154°C
Identity (IR)	Passes test
Appearance of solution	Passes test
Chloride (Cl)	Max 0.02%

Nitrate (NO ₃)	Max 0.003%
Sulphate (SO ₄)	Max 0.05%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Loss on drying	Max 0.2%
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

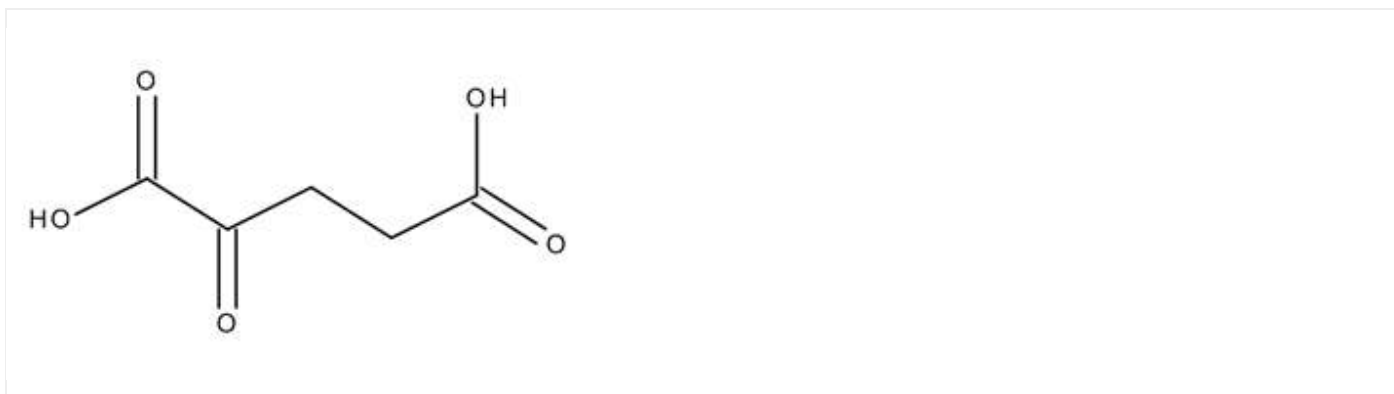
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

-KETOGLUTARIC ACID 99%

Used as a substance in determination of glutamic oxalic transaminase. 2-Oxoglutaric acid;
2-Oxopentanedioic acid

Product Code.	01488	Grade	
Purity	99%	CAS No.	328-50-7
Molecular Formula	C5H6O5	Molecular Weight	146.10
H.S.Code	2918.30900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to yellow crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	114 °C	Boiling point [°C]	138°C	Solubility in water [% weight]	100 g/l at 20 °C

Packaging

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Specification

Appearance	White to yellowish crystalline powder
Assay (alkalimetric)	Min 99%
Melting point	115 - 118 °C
Chloride (Cl)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

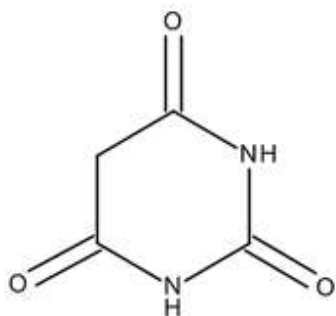
Hazardous Statement: H315-H318-H335

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

BARBITURIC ACID 99% AR

2,4,6-Trihydroxypyrimidine, Malonylurea

Product Code.	00328	Grade	
Purity	99%	CAS No.	67-52-7
Molecular Formula	C4H4N2O3	Molecular Weight	128.09
H.S.Code	2933.52000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	248 - 252 °C	Flash point [°C]	150°C	Boiling point [°C]	260°C
Solubility in water [% weight]	Partially soluble in water				

Packaging



Specification

Appearance	White to faint beige powder
Assay	Min 99.0%
Identity (IR)	Conforms to structure

Chloride (Cl)	Max 0.004%
Iron (Fe)	Max 0.001%
Loss on drying (at 105°C)	Max 0.1%
Sulphated ash	Max 0.1%
Heavy metal (as Pb)	Max 0.005%
Suitability as reagent (for cyanide determination)	Passes test

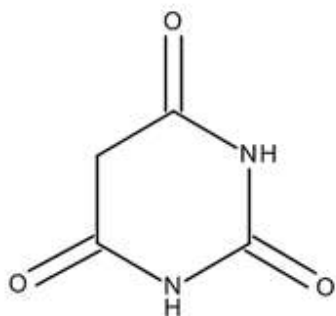
Safety Information and Hazard Symbols

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BARBITURIC ACID 99% FOR SYNTHESIS

2,4,6-Trihydroxypyrimidine, Malonylurea

Product Code.	00327	Grade	For Synthesis
Purity	99%	CAS No.	67-52-7
Molecular Formula	C4H4N2O3	Molecular Weight	128.09
H.S.Code	2933.52000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	248 - 252 °C	Flash point [°C]	150°C	Boiling point [°C]	260°C
Solubility in water [% weight]	Partially soluble in water				

Packaging



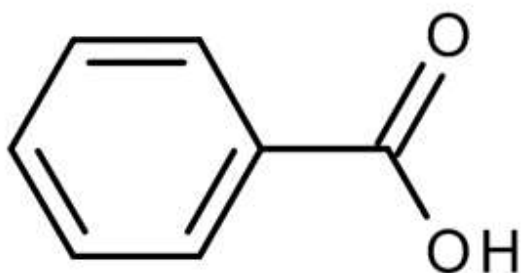
Specification

Appearance	White to faint beige powder
Assay	Min 99%
Identity (IR)	Conforms to structure

BENZOIC ACID 99.5% AR

Benzenecarboxylic acid; Benzeneformic acid; Phenyl carboxylic acid, Phenyl formic acid, Dracylic acid.

Product Code.	00379	Grade	
Purity	99.5%	CAS No.	65-85-0
Molecular Formula	C7H6O2	Molecular Weight	122.12
H.S.Code	2916.31100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint pleasant odor
pH value	2.5 - 3.5	Melting point/ Freezing point [°C]	121 - 125 °C	Flash point [°C]	121 °C
Boiling point [°C]	249 °C	Vapour pressure mm/Hg	13 mm Hg at 132 °C	Vapour density	4.22
Density [g/cm ³]	1.32	Solubility in water [% weight]	2.9 g/l at 25 °C	Partition coefficient Log Pow octanol / water at 20°C	1.88

Packaging



Specification

Appearance	White crystalline powder/ flakes
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Assay (alkalimetric)	Min 99.5%
Infrared spectrum	Conforms to Structure
Melting point	122 - 123°C
Substance insoluble in methanol	Max 0.005%
Sulphated ash	Max 0.005%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.002%
Iron (Fe)	Max 0.0002%
Heavy metal (as Pb)	Max 0.0005%
Substance reducing KMnO ₄ (as O)	Passes ACS test
Halogenated compounds (as Cl)	Max 0.005%
Sulphur compounds (as S)	Max 0.002%
Oxidizing substances	Passes test
Readily carbonisable substance	Passes test

Safety Information and Hazard Symbols

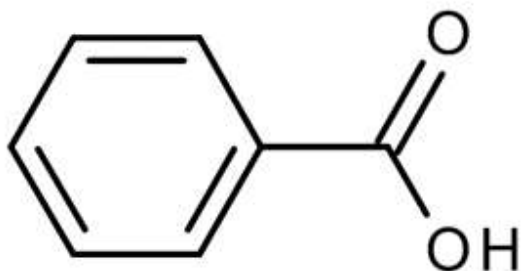


Symbol: GHS07
 Signal Word: Danger
 Hazardous Statement: H318-H335
 Precaution Statement: P261-P280-P305 + P351 + P338

BENZOIC ACID 99.5% EXTRAPURE

(Confirms to IP, BP, USP) Benzenecarboxylic acid; Benzeneformic acid; Phenyl carboxylic acid, Phenyl formic acid, Dracylic acid.

Product Code.	00378	Grade	
Purity	99%	CAS No.	65-85-0
Molecular Formula	C7H6O2	Molecular Weight	122.12
H.S.Code	2916.31100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint pleasant odor
pH value	2.5 - 3.5	Melting point/ Freezing point [°C]	121 - 125 °C	Flash point [°C]	121 °C
Boiling point [°C]	249 °C	Vapour pressure mm/Hg	13 mm Hg at 132 °C	Vapour density	4.22
Density [g/cm ³]	1.32	Solubility in water [% weight]	2.9 g/l at 25 °C	Partition coefficient Log Pow octanol / water at 20°C	1.88

Packaging



Specification

Appearance	A white, crystalline powder or colourless crystals
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Assay (alkalimetric)	99%-100.5%
Solubility	Slightly soluble in water; soluble in boiling water, freely soluble in alcohol, in chloroform, and in ether, fatty oils.
Identifications (as per IP, BP, USP)	To comply the tests
Melting point	121 -123°C
Appearance of solution	To comply IP, BP test
Readily carbonisable substance	To comply IP, BP, USP test
Readily oxidisable substance	To comply IP, BP, USP test
Halogenated compounds and halides	Max 0.03%(complies IP test)
Cinnamic acid	To comply IP test
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0002%
Sulphated ash	Max 0.1%
Residue on ignition	Max 0.05%
Water (H ₂ O)	Max 0.7%

Safety Information and Hazard Symbols

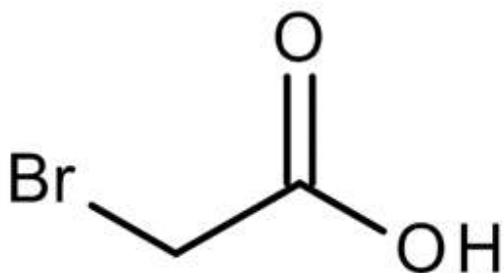


Symbol: GHS07
 Signal Word: Danger
 Hazardous Statement: H318-H335
 Precaution Statement: P261-P280-P305 + P351 + P338

BROMOACETIC ACID 98% FOR SYNTHESIS

Bromoethanoic acid; α -Bromoacetic acid; Monobromoacetic acid; Carboxymethyl bromide,

Product Code.	00485	Grade	For Synthesis
Purity	98%	CAS No.	79-08-3
Molecular Formula	C2H3BrO2	Molecular Weight	138.95
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White Crystalline	Melting point/ Freezing point [°C]	46 - 49 °C
Flash point [°C]	113 °C	Boiling point [°C]	208 °C	Vapour pressure mm/Hg	1 mm Hg @ 550C
Density [g/cm3]	1.934	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	0.41

Packaging



Specification

Appearance	Colorless or white to yellow to orange powder or crystals or solids
Assay (alkalimetric)	Min 98%
Melting range	45 - 49°C

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06, GHS09

Signal Word: Danger

UN No.: 3425

IMCO Class No.: 8

Packing Group: II

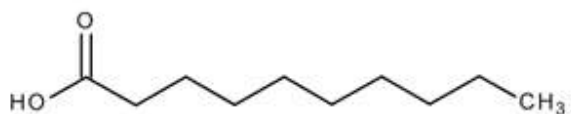
Hazardous Statement: H301-H311-H314-H317-H331-H400

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

CAPRIC ACID (DECANOIC ACID) 98% FOR SYNTHESIS

n- Decanoic acid

Product Code.	00672	Grade	
Purity	98%	CAS No.	334-48-5
Molecular Formula	C10H20O2	Molecular Weight	172.27
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to pale yellow	Odour	Odorless
Melting point/ Freezing point [°C]	27 - 32 °C	Flash point [°C]	110 °C	Boiling point [°C]	268 - 270 °C
Initial boiling point [°C]	268°C	Final boiling point [°C]	270 °C	Vapour pressure mm/Hg	20 mm Hg at 160 °C
Density [g/cm ³]	0.893				

Packaging



Specification

Appearance	Colourless to pale yellow solid or liquid
Assay	Min 98%

Melting range

29 - 33 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

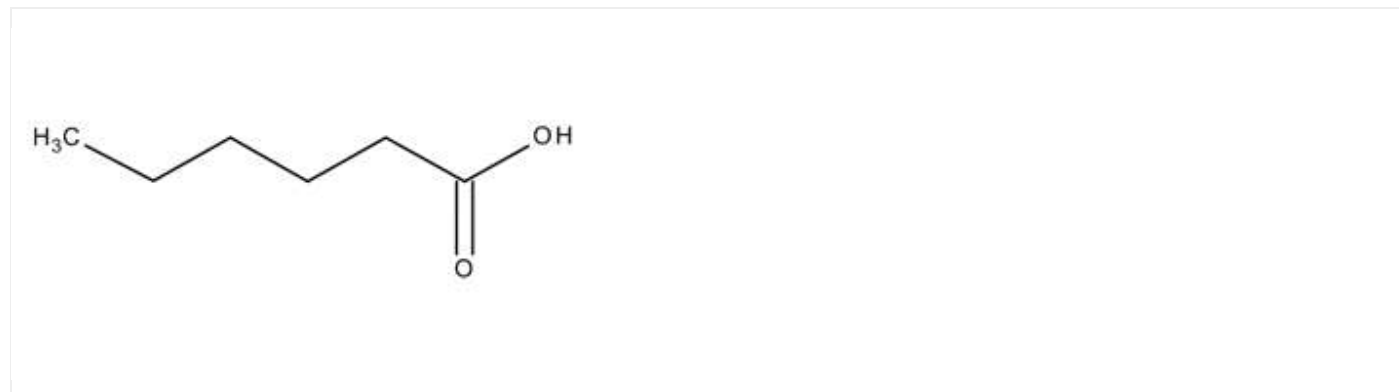
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

CAPROIC ACID 98% FOR SYNTHESIS

N-Hexanoic Acid

Product Code.	00673	Grade	
Purity	98%	CAS No.	142-62-1
Molecular Formula	C6H12O2	Molecular Weight	116.60
H.S.Code	2915.90300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to pale yellow	Odour	Stench
Melting point/ Freezing point [°C]	-4 °C	Auto-ignition temperature [°C]	380°C	Flash point [°C]	102 °C
Boiling point [°C]	202 - 203 °C	Initial boiling point [°C]	202°C	Final boiling point [°C]	203 °C
Vapour pressure [20°C]	0.24 hPa at 20 °C	Vapour density	4.01	Density [g/cm ³]	0.927
Solubility in water [% weight]	1.1% IN WATER (20°C)	Explosion limits - upper [%]	10%	Explosion limits -lower [%]	2%

Packaging



Specification

Appearance	Colourless to pale yellow liquid
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Assay	Min 98%
Density (d20°C/4°C)	0.926 - 0.928

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 2829

IMCO Class No.: 8

Packing Group: III

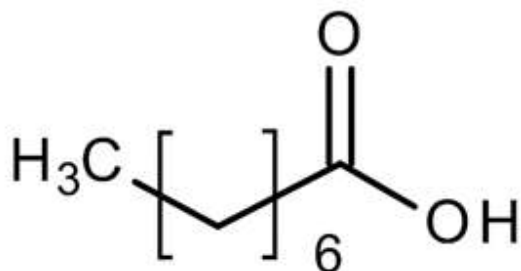
Hazardous Statement: H302-H311-H314-H331

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

CAPRYLIC ACID 99% FOR SYNTHESIS

N-Octanoic Acid

Product Code.	00674	Grade	For Synthesis
Purity	99%	CAS No.	124-07-2
Molecular Formula	C ₈ H ₁₆ O ₂	Molecular Weight	144.22
H.S.Code	2915.90200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to pale yellow	Odour	Faint, fruity acid odor
pH value	3.5	Melting point/ Freezing point [°C]	15 - 17 °C	Flash point [°C]	110 °C
Boiling point [°C]	237 °C	Vapour pressure mm/Hg	1 mm @ 7800C	Vapour density	4.98
Density [g/cm ³]	0.91	Solubility in water [% weight]	Insoluble in water		

Packaging



Specification

Appearance	Clear colorless to paly yellow oily liquid
Purity (by GC)	Min 99%

Density (d_{20°C/4°C})

0.909 - 0.911 g/ml

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3265

IMCO Class No.: 8

Packing Group: III

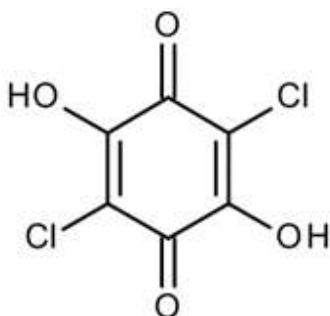
Hazardous Statement: H314

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

CHLORANILLIC ACID 98% AR

2,5-Dichloro-3,6-dihydroxy-p-benzoquinone; 2,5-Dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dione

Product Code.	00742	Grade	
Purity	98%	CAS No.	87-88-7
Molecular Formula	C6H2Cl2O4	Molecular Weight	208.99
H.S.Code	2914.79900	Shelf Life	60 Months



Physical Properties

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

Specification

Appearance	Orange to very dark orange powder
Assay (alkalimetric)	Min 98%
Identity (IR)	Conforms to structure

Safety Information and Hazard Symbols

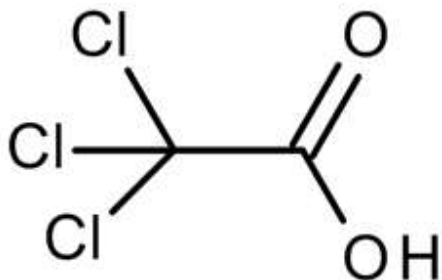


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315-H319-H335
Precaution Statement: P261-P305 + P351 + P338

CHLORO ACETIC ACID (TRI) 99% AR

For determination of Serum-iron protein. fixative and general solvent. TCA

Product Code.	00747	Grade	
Purity	99%	CAS No.	76-03-9
Molecular Formula	CCl ₃ .COOH	Molecular Weight	163.39
H.S.Code	2915.40300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	pH value	1
Melting point/ Freezing point [°C]	54 - 58 °C	Flash point [°C]	> 113 °C	Boiling point [°C]	196 °C
Vapour density	5.64	Density [g/cm ³]	1.6	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	1.645				

Packaging

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Specification

Appearance	Colorless crystalline powder.
Assay	Min 99%
Clarity of solution	Passes test
Melting point	Min 56°C
Insoluble matter	Max 0.005%

Heavy metal (as Pb)	Max 0.002%
Chloride (Cl)	Max 0.002%
Nitrate (NO3)	Max 0.002%
Phosphate (PO4)	Max 0.0005%
Sulphate (SO4)	Max 0.02%
Residue on ignition	Max 0.02%
Iron (Fe)	Max 0.001%
Substance darkened by H2SO4	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS09

Signal Word: Danger

UN No.: 1839

IMCO Class No.: 8

Packing Group: II

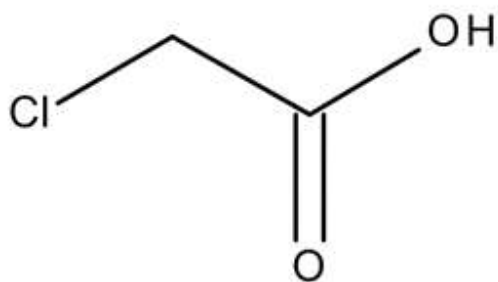
Hazardous Statement: H314-H410

Precaution Statement: P273-P280-P305 + P351 + P338-P310-P501

CHLOROACETIC ACID 99.5% AR

Monochloroacetic acid

Product Code.	00745	Grade	AR
Purity	99.5%	CAS No.	79-11-8
Molecular Formula	CH ₂ Cl.COOH	Molecular Weight	94.50
H.S.Code	2915.40100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Penetrating, burning odor
pH value	< 1 at 800 g/l at 20 °C	Melting point/ Freezing point [°C]	60 - 63 °C	Flash point [°C]	126 °C
Boiling point [°C]	189 °C	Vapour pressure [20°C]	0.2 hPa at 20 °C	Vapour pressure mm/Hg	1 mm Hg @ 43C
Vapour density	3.26	Density [g/cm ³]	1.58	Solubility in water [% weight]	Very soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.2	Explosion limits -lower [%]	8%		

Packaging

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Specification

Appearance	Colorless deliquescent crystals
Assay (alkalimetric)	Min 99.5%

Freezing point	Min 61°C
Insoluble matter in water	Max 0.003%
Sulphated ash	Max 0.5%
Chloride (Cl)	Max 0.005%
Nitrogen compounds (as N)	Max 0.003%
Sulphate (SO ₄)	Max 0.005%
Copper (Cu)	Max 0.0004%
Iron (Fe)	Max 0.0002%
Lead (Pb)	Max 0.0004%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06, GHS09

Signal Word: Danger

UN No.: 1751

IMCO Class No.: 6.1,8

Packing Group: II

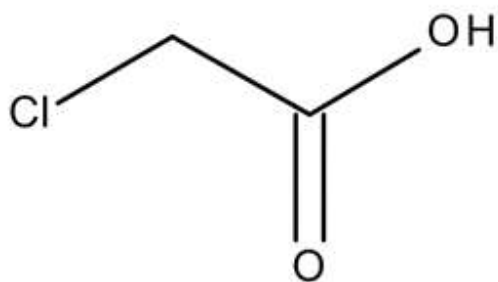
Hazardous Statement: H301-H311-H314-H331-H400

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

CHLOROACETIC ACID 99% EXTRAPURE

Monochloroacetic acid

Product Code.	00744	Grade	
Purity	99%	CAS No.	79-11-8
Molecular Formula	CH ₂ Cl.COOH	Molecular Weight	94.50
H.S.Code	2915.40100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Penetrating, burning odor
pH value	< 1 at 800 g/l at 20 °C	Melting point/ Freezing point [°C]	60 - 63 °C	Flash point [°C]	126 °C
Boiling point [°C]	189 °C	Vapour pressure [20°C]	0.2 hPa at 20 °C	Vapour pressure mm/Hg	1 mm Hg @ 43C
Vapour density	3.26	Density [g/cm ³]	1.58	Solubility in water [% weight]	Very soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.2	Explosion limits -lower [%]	8%		

Packaging

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Specification

Appearance	Colorless deliquescent crystals
Assay (alkalimetric)	Min 99%

Sulphated ash

Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06, GHS09

Signal Word: Danger

UN No.: 1751

IMCO Class No.: 6.1,8

Packing Group: II

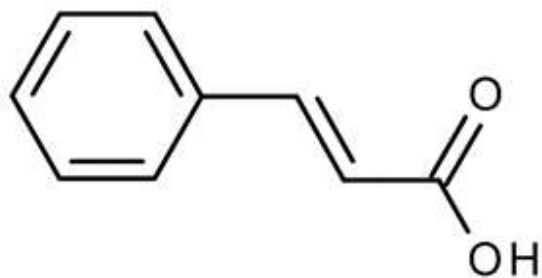
Hazardous Statement: H301-H311-H314-H331-H400

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

CINNAMIC ACID 99% AR

trans-3-Phenylacrylic acid

Product Code.	00817	Grade	AR
Purity	99%	CAS No.	140-10-3
Molecular Formula	C9H8O2	Molecular Weight	148.16
H.S.Code	2916.39100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint odour
pH value	3 - 4	Melting point/ Freezing point [°C]	132 - 135 °C	Flash point [°C]	100 °C
Boiling point [°C]	300 °C	Density [g/cm3]	1.248	Solubility in water [% weight]	0.4 g/l in water (20°C)

Packaging

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Specification

Appearance	White to light yellow crystalline powder
Assay (alkalimetric)	Min 99%
Melting range	131 - 136°C
Sulphated ash	Max 0.02%
Chloride (Cl)	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

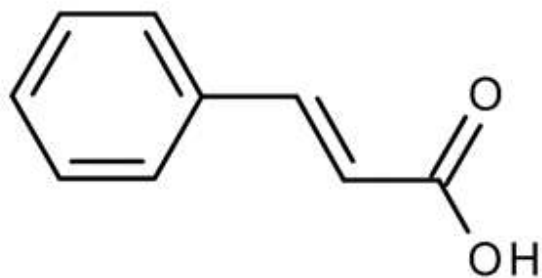
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

CINNAMIC ACID 99% FOR SYNTHESIS

trans-3-Phenylacrylic acid

Product Code.	00816	Grade	For Synthesis
Purity	99%	CAS No.	140-10-3
Molecular Formula	C9H8O2	Molecular Weight	148.16
H.S.Code	2916.39100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint odour
pH value	3 - 4	Melting point/ Freezing point [°C]	132 - 135 °C	Flash point [°C]	100 °C
Boiling point [°C]	300 °C	Density [g/cm3]	1.248	Solubility in water [% weight]	0.4 g/l in water (20°C)

Specification

Appearance	White to light yellow crystalline powder
Assay (alkalimetric)	Min 99%
Melting point	132 - 136°C

Safety Information and Hazard Symbols

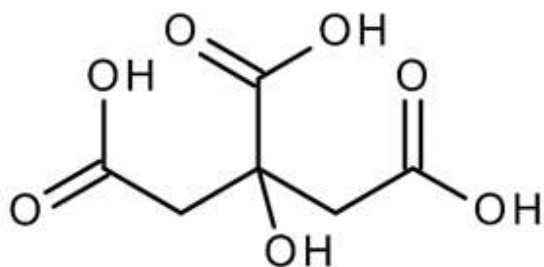


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315-H319-H335
Precaution Statement: P261-P305 + P351 + P338

CITRIC ACID ANHYDROUS 99.5% EXTRAPURE

2-Hydroxy-1,2,3-propanetricarboxylic acid anhydrous

Product Code.	00820	Grade	Extrapure
Purity	99.5%	CAS No.	77-92-9
Molecular Formula	C6H8O7	Molecular Weight	192.13
H.S.Code	2918.14000	Shelf Life	60 Months



Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 99.5%
Water (by KF)	Max 1.0%
Sulphated ash	Max 0.1%
Iron (Fe)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.015%
Reaction against H ₂ SO ₄	Passes test

Safety Information and Hazard Symbols

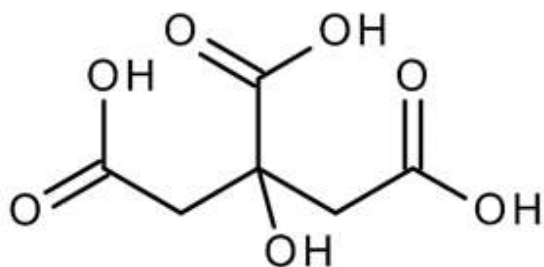


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H319
Precaution Statement: P305 + P351 + P338

CITRIC ACID MONOHYDRATE 99.5% AR

Confirms to BP 2-Hydroxy-1,2,3-propanetricarboxylic acid monohydrate

Product Code.	00824	Grade	
Purity	99%	CAS No.	5949-29-1
Molecular Formula	C6H8O7.H2O	Molecular Weight	210.14
H.S.Code	2918.14000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1.8 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	153°C	Flash point [°C]	173.9 °C
Boiling point [°C]	175°C	Vapour pressure mm/Hg	3.70E-009 mm Hg @ 250C	Vapour density	7.26
Density [g/cm3]	1.665	Solubility in water [% weight]	59.2% (20°C)		

Packaging

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Specification

Appearance	White crystalline powder
Assay (by NaOH titration)	99.5-102%
Residue on ignition (at 800°C)	Max 0.02%
Insoluble matter (13.2% in water)	Max 0.005%
Chloride (Cl)	Max 0.001%

Oxalate (as C ₂ H ₂ O ₄)	Passes test
Substance carbonizable by hot H ₂ SO ₄	Passes test
Lead (Pb)	Max 0.0002%
Iron (Fe)	Max 0.0003%
Sulphate (SO ₄)	Max 0.002%
Phosphate (PO ₄)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Danger

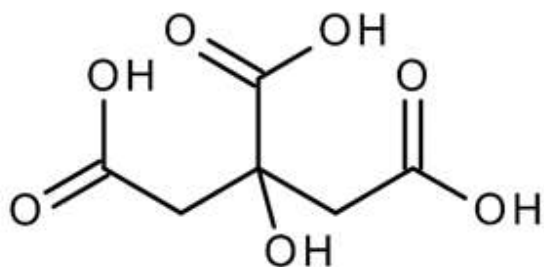
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

CITRIC ACID MONOHYDRATE 99% EXTRAPURE

2-Hydroxy-1,2,3-propanetricarboxylic acid monohydrate

Product Code.	00823	Grade	Extrapure
Purity	99%	CAS No.	5949-29-1
Molecular Formula	C6H8O7.H2O	Molecular Weight	210.14
H.S.Code	2918.14000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1.8 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	153°C	Flash point [°C]	173.9 °C
Boiling point [°C]	175°C	Vapour pressure mm/Hg	3.70E-009 mm Hg @ 250C	Vapour density	7.26
Density [g/cm3]	1.665	Solubility in water [% weight]	59.2% (20°C)		

Packaging

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Specification

Appearance	White or almost white, crystalline powder , colorless crystals or granules efflorescent
Assay (by NaOH titration)	Min 99.0%
Insoluble matter in water	Max 0.01%
Chloride (Cl)	Max 0.005%

Sulphate (SO ₄)	Max 0.01%
Oxalate (as C ₂ H ₂ O ₄)	Max 0.035%
Heavy metal (as Pb)	Max 0.001%
Lead (Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Zinc (Zn)	Max 0.001%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max 0.02%
Barium (Ba)	Max 0.002%
Reaction against H ₂ SO ₄	Passes test
Water (H ₂ O)	7.5 - 8.8%
Sulphated ash (at 600°C)	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

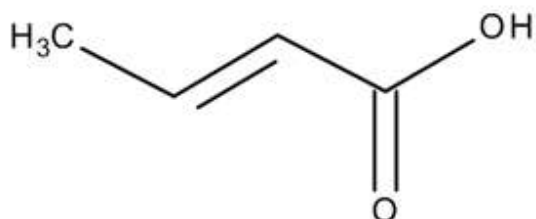
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

CROTONIC ACID 97% FOR SYNTHESIS

trans-2-Butenoic acid

Product Code.	00896	Grade	
Purity	97%	CAS No.	107-93-7
Molecular Formula	C4H6O2	Molecular Weight	86.09
H.S.Code	2916.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	70 - 72 °C
Flash point [°C]	88 °C	Boiling point [°C]	180 - 181 °C	Initial boiling point [°C]	180°C
Final boiling point [°C]	181 °C	Vapour pressure [20°C]	0.25 hPa at 20 °C	Density [g/cm3]	0.964
Solubility in water [% weight]	Soluble in water	Explosion limits - upper [%]	15.10%	Explosion limits -lower [%]	2.20%

Packaging

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Specification

Appearance	White crystalline powder
Assay (titration)	Min 97%
Melting point	70 - 73 deg C

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2823

IMCO Class No.: 8

Packing Group: III

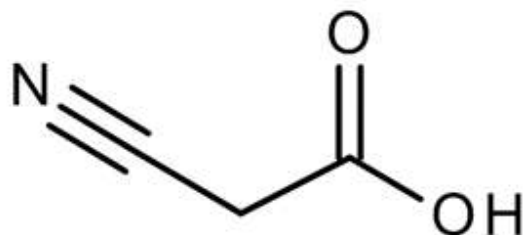
Hazardous Statement: H302-H312-H314

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

CYANOACETIC ACID 96% FOR SYNTHESIS

Malonic mononitrile

Product Code.	00905	Grade	For Synthesis
Purity	96%	CAS No.	372-09-8
Molecular Formula	C3H3NO2	Molecular Weight	85.07
H.S.Code	2926.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	2
Melting point/ Freezing point [°C]	64 - 70 °C	Flash point [°C]	107 °C	Boiling point [°C]	108 °C

Specification

Appearance	White to Off-White Powder, crystals, crystalline powder and/or chunks
Assay (alkalimetric)	Min 96.0%
Identity (IR)	Conforms to structure

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 3261

IMCO Class No.: 8

Packing Group: II

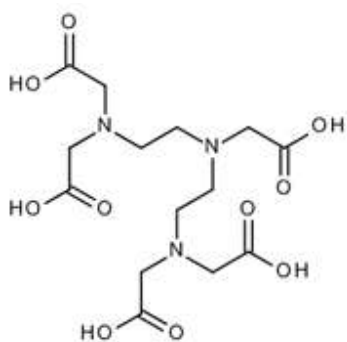
Hazardous Statement: H302-H314

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

DIETHYLENE TRIAMINE PENTA ACETIC ACID 99% AR

DTPA

Product Code.	00996	Grade	AR
Purity	99%	CAS No.	67-43-6
Molecular Formula	C ₁₄ H ₂₃ N ₃ O ₁₀	Molecular Weight	393.35
H.S.Code	2922.49900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	2.5 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	219 - 220 °C	Flash point [°C]	200 °C
Solubility in water [% weight]	5 g/l at 20 °C 13 g/l at 50 °C				

Packaging

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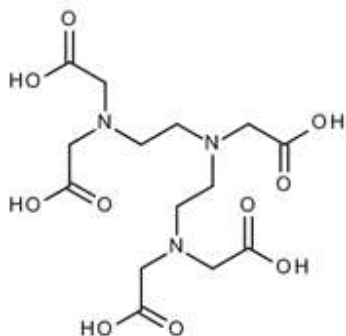
Specification

Appearance	White crystalline powder
Assay (complexometric; on anhydrous basis)	Min 99.0%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Water (H ₂ O)	Max 0.5%

DIETHYLENE TRIAMINE PENTA ACETIC ACID 99% FOR SYNTHESIS

(Carboxymethylimino)bis(ethylenenitrilo)tetraacetic acid; N,N-Bis(2-[bis(carboxymethyl)amino]ethyl)glycine; DETAPAC; DTPA; Penta(carboxymethyl)diethylenetriamine Pentetic acid.

Product Code.	00995	Grade	For Synthesis
Purity	99%	CAS No.	67-43-6
Molecular Formula	C14H23N3O10	Molecular Weight	393.35
H.S.Code	2922.49900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	2.5 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	219 - 220 °C	Flash point [°C]	200 °C
Solubility in water [% weight]	5 g/l at 20 °C				

Packaging

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Specification

Appearance	White crystalline powder
Assay	99.0-100.5%
Melting range	219 - 221°C

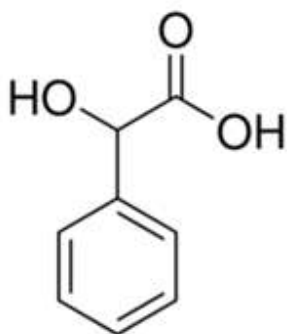
Safety Information and Hazard Symbols

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DL-MANDELIC ACID 99% EXTRAPURE

(±)-α-Hydroxyphenylacetic acid

Product Code.	01619	Grade	
Purity	99%	CAS No.	90-64-2
Molecular Formula	C8H8O3	Molecular Weight	152.15
H.S.Code	2918.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	117 - 120 °C	Density [g/cm ³]	1.3	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 99%
Melting range	116 - 120°C

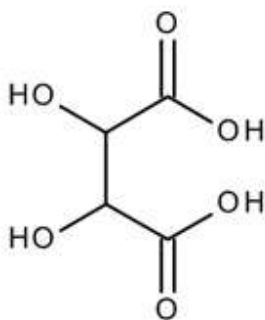
Safety Information and Hazard Symbols

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DL-TARTARIC ACID (SYNTHETIC) 99% EXTRAPURE

DL-2,3-Dihydroxybutanedioic acid

Product Code.	02620	Grade	Extrapure
Purity	99%	CAS No.	133-37-9
Molecular Formula	C4H6O6	Molecular Weight	150.09
H.S.Code	2918.12000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1 - 2 at 150 g/l at 25 °C	Melting point/ Freezing point [°C]	170 - 172 °C	Auto-ignition temperature [°C]	425°C
Flash point [°C]	150 °C	Vapour density	5.18	Density [g/cm3]	1.76
Solubility in water [% weight]	150 g/l at 20 °C - completely soluble				

Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 99%
Melting range (with decomposition)	204 - 206°C

Safety Information and Hazard Symbols



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

FORMIC ACID 85% EXTRAPURE

Methanoic Acid; Hydrogen Carboxylic Acid; Formylic Acid

Product Code.	01249	Grade	
Purity	85%	CAS No.	64-18-6
Molecular Formula	CH2O2	Molecular Weight	46.03
H.S.Code	2915.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent
pH value	2.2	Melting point/ Freezing point [°C]	8.2 - 8.4 °C	Auto-ignition temperature [°C]	601°C
Flash point [°C]	48 °C	Boiling point [°C]	100 - 101 °C	Initial boiling point [°C]	100°C
Final boiling point [°C]	101 °C	Vapour pressure [20°C]	42 hPa at 20 °C	Vapour density	1.59
Density [g/cm ³]	1.22	Solubility in water [% weight]	Infinitely soluble	Partition coefficient Log Pow octanol / water at 20°C	0.54
Explosion limits - upper [%]	57%	Explosion limits -lower [%]	18%		

Packaging

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Specification

Appearance	A clear colorless liquid with pungent odor
Assay (alkalimetric)	Min 85%
Non volatile matter	Max 0.04%

Chloride (Cl)	Max 0.02%
Sulphate (SO ₄)	Max 0.01%
Heavy metals and iron	Max 0.003%
Weight/ mL at 20°C	About 1.200 g

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 1779

IMCO Class No.: 8,3

Packing Group: II

Hazardous Statement: H226-H314

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

FORMIC ACID 98% FOR SYNTHESIS

Methanoic Acid; Hydrogen Carboxylic Acid; Formylic Acid

Product Code.	01252	Grade	For Synthesis
Purity	98%	CAS No.	64-18-6
Molecular Formula	H.COOH	Molecular Weight	46.03
H.S.Code	2915.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent
pH value	2.2	Melting point/ Freezing point [°C]	8.2 - 8.4 °C	Auto-ignition temperature [°C]	601°C
Flash point [°C]	48 °C	Boiling point [°C]	100 - 101 °C	Initial boiling point [°C]	100°C
Final boiling point [°C]	101 °C	Vapour pressure [20°C]	42 hPa at 20 °C	Vapour density	1.59
Density [g/cm ³]	1.22	Solubility in water [% weight]	Infinitely soluble	Partition coefficient Log Pow octanol / water at 20°C	0.54
Explosion limits - upper [%]	57%	Explosion limits -lower [%]	18%		

Packaging

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Specification

Appearance	A clear colorless liquid with pungent odor
Assay (alkalimetric)	Min 98.0%
Weight/ mL at 20°C	About 1.22 g/ml

Non volatile matter	Max 0.05%
Chloride (Cl)	Max 0.01%
Sulphate (SO ₄)	Max 0.01%
Iron (Fe)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 1779

IMCO Class No.: 8,3

Packing Group: II

Hazardous Statement: H226-H314

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

FORMIC ACID 98-100% AR

Methanoic Acid; Hydrogen Carboxylic Acid; Formylic Acid

Product Code.	01253	Grade	AR
Purity	98%	CAS No.	64-18-6
Molecular Formula	CH2O2	Molecular Weight	46.03
H.S.Code	2915.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent
pH value	2.2	Melting point/ Freezing point [°C]	8.2 - 8.4 °C	Auto-ignition temperature [°C]	601°C
Flash point [°C]	48 °C	Boiling point [°C]	100 - 101 °C	Initial boiling point [°C]	100°C
Final boiling point [°C]	101 °C	Vapour pressure [20°C]	42 hPa at 20 °C	Vapour density	1.59
Density [g/cm3]	1.22	Solubility in water [% weight]	Infinitely soluble	Partition coefficient Log Pow octanol / water at 20°C	0.54
Explosion limits - upper [%]	57%	Explosion limits -lower [%]	18%		

Packaging

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Specification

Appearance	A clear colorless liquid.
Assay (alkalimetric)	Min 98.0%
Weight/ mL at 20°C	1.216 - 1.220 g/ml

Freezing point	Min 5.5 deg C
Insoluble matter in water	Passes test
Acetic acid (CH ₃ COOH)	Max 0.3%
Chloride (Cl)	Max 0.0005%
Nitrogen compounds (as N)	Max 0.002%
Sulphate (SO ₄)	Max 0.001%
Sulphite (as SO ₃)	Max 0.001%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0003%
Lead (Pb)	Max 0.0005%
Non volatile matter	Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05

Signal Word: Danger

UN No.: 1779

IMCO Class No.: 8,3

Packing Group: II

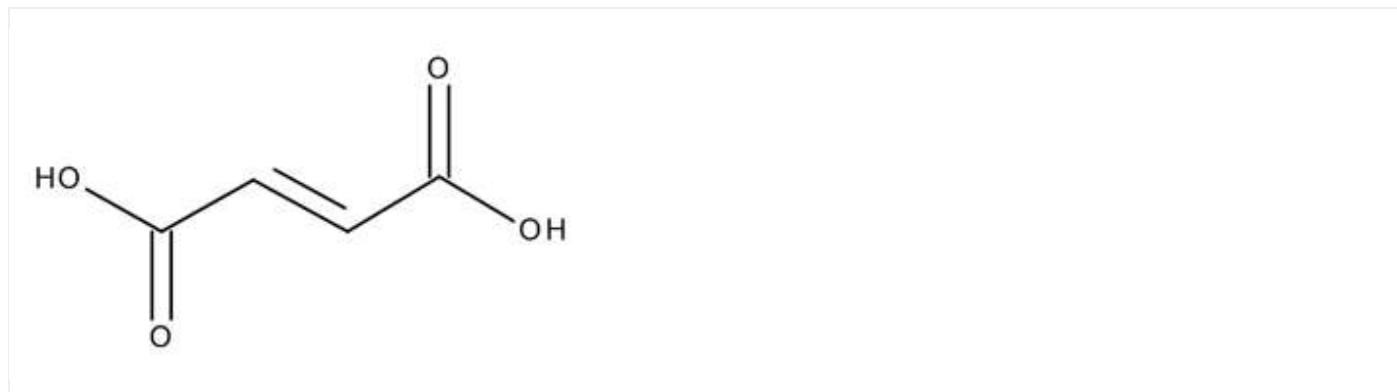
Hazardous Statement: H226-H314

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

FUMARIC ACID 99.5% FOR SYNTHESIS

Conforms to USP-NF 2-Butenedioic acid

Product Code.	01262	Grade	For Synthesis
Purity	99.5%	CAS No.	110-17-8
Molecular Formula	C4H4O4	Molecular Weight	116.07
H.S.Code	2917.19500	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.1 at 4.9 g/l at 20 °C	Melting point/ Freezing point [°C]	298 - 300 °C	Auto-ignition temperature [°C]	375 °C
Flash point [°C]	230 °C	Boiling point [°C]	290 °C	Vapour pressure mm/Hg	2.2 mm Hg at 165 °C
Density [g/cm ³]	1.635 g/cm ³ at 20 °C	Solubility in water [% weight]	4.9 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	0.3
Explosion limits - upper [%]	40%	Explosion limits -lower [%]	3%		

Packaging

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Specification

Appearance	White to off-white crystalline powder
Assay	99.5 -100.5%
Identification	Passes test

Heavy metal (as Pb)	Max 0.001%
Maleic acid	Max 0.1%
Sulphated ash	Max 0.1%
Water (by KF)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

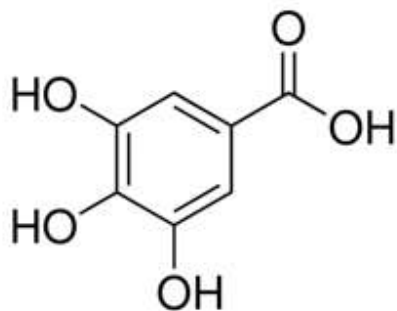
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

GALLIC ACID 99.5% EXTRAPURE

3,4,5-Trihydroxybenzoic acid

Product Code.	01271	Grade	Extrapure
Purity	99.5%	CAS No.	5995-86-8
Molecular Formula	C7H6O5.H2O	Molecular Weight	188.14
H.S.Code	2918.29100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white powder	Odour	Odorless
Solubility in water [% weight]	Partially soluble in water				

Packaging

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Specification

Appearance	Off-white to beige powder
Assay (NaOH titration)	Min 99.5%
Insoluble matter	Max 0.01%
Sulphate (SO4)	Max 0.02%
Loss on drying (at 105°C)	Max 10.0%
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

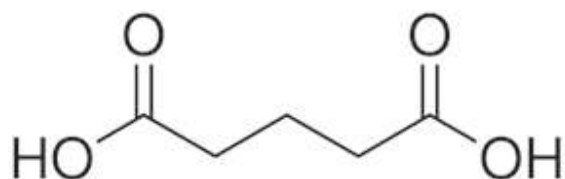
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

GLUTARIC ACID 99% FOR SYNTHESIS

Pentanedioic Acid

Product Code.	01288	Grade	For Synthesis
Purity	99%	CAS No.	110-94-1
Molecular Formula	C5H8O4	Molecular Weight	132.11
H.S.Code	2917.19900	Shelf Life	60 Months



Specification

Appearance	White to off white crystal or powder
Assay (by NaOH titration)	99.0 - 101.5%
Identity (IR)	Passes test
Melting range	95 - 99°C

Safety Information and Hazard Symbols

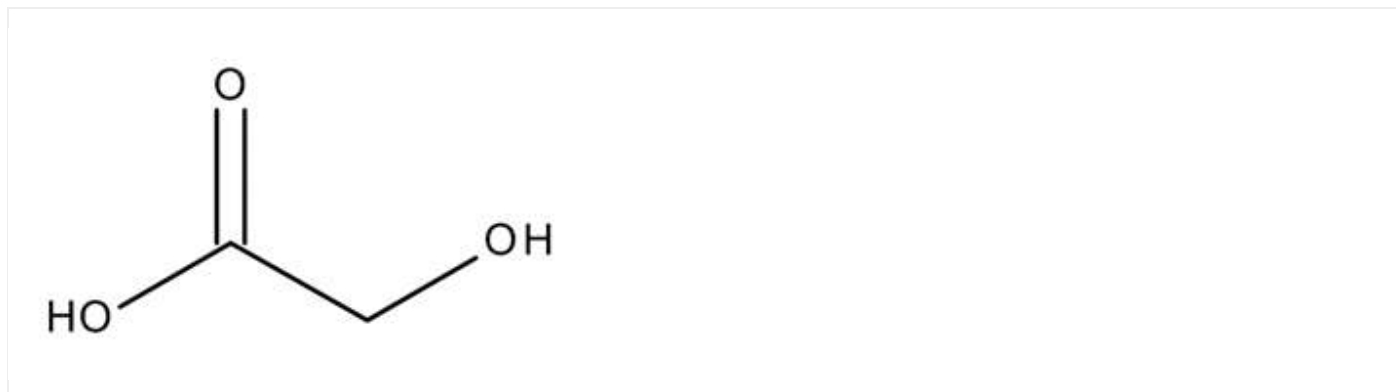


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H319
Precaution Statement: P305 + P351 + P338
Risk Statement: 36
Safety Statement: 26

GLYCOLIC ACID 70% IN WATER FOR SYNTHESIS

Hydroxyacetic acid

Product Code.	01298	Grade	For Synthesis
Purity		CAS No.	79-14-1
Molecular Formula	C2H4O3	Molecular Weight	76.05
H.S.Code	2918.19900	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to slight yellow	Odour	Burnt sugar odor
pH value	2.5	Melting point/ Freezing point [°C]	10°C	Boiling point [°C]	112 °C
Density [g/cm ³]	1.27	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	Clear colorless to yellow or light amber color solution
Assay (alkalimetric)	63 - 72%
Density (d _{20°C/4°C})	~ 1.25

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3265 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

HUMIC ACID 60%

Growth stimulant, Catalyst, Chelating agent.

Product Code.	01363	Grade	
Purity	60%	CAS No.	1415-93-6
Molecular Formula		Molecular Weight	0.00
H.S.Code	3105.90900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Chocolate crystals	Melting point/ Freezing point [°C]	300 °C
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Packaging

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Specification

Appearance	Black color crystals or powder
Humic acid (dry basis)	60.0-70.0%
Fulvic acid (dry basis)	Min 15.0%
K2O (dry basis)	Min 12.0%
Moisture content	Max 15.0%

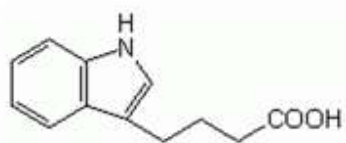
Safety Information and Hazard Symbols


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

INDOLE-3-BUTYRIC ACID 99% FOR BIOCHEMISTRY

Plant growth hormone. 4-(3-Indolyl)butyric acid, 4-(3-Indolyl)butanoic acid; IBA

Product Code.	01443	Grade	For Biochemistry
Purity	99%	CAS No.	133-32-4
Molecular Formula	C ₁₂ H ₁₃ NO ₂	Molecular Weight	203.24
H.S.Code	2933.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to light yellow	Odour	Slight characteristic odor
Melting point/ Freezing point [°C]	125°C	Solubility in water [% weight]	Negligible		

Specification

Appearance	White to Beige to Pink Powder or Crystals or Flakes
Assay (alkalimetric)	Min 99.0%
Melting point	121 - 124 °C

Safety Information and Hazard Symbols

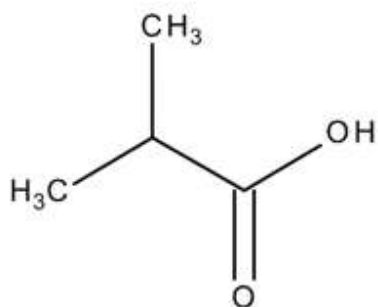


Symbol: GHS06
Signal Word: Danger
UN No.: 2811
IMCO Class No.: 6.1
Packing Group: III
Hazardous Statement: H301-H315-H319-H335
Precaution Statement: P261-P301 + P310-P305 + P351 + P338

ISO-BUTYRIC ACID 99% FOR SYNTHESIS

2-Methylpropionic acid

Product Code.	00587	Grade	For Synthesis
Purity	99%	CAS No.	79-31-2
Molecular Formula	C4H8O2	Molecular Weight	88.11
H.S.Code	2915.70900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Stench
pH value	2.5 at 100 g/l at 20 °C	Melting point/ Freezing point [°C]	-47 °C	Flash point [°C]	55 °C
Boiling point [°C]	153 - 154 °C	Initial boiling point [°C]	153 °C	Final boiling point [°C]	154 °C
Vapour pressure [20°C]	2 hPa at 20 °C	Vapour density	3.04	Density [g/cm3]	0.95
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	0.604	Explosion limits - upper [%]	10%
Explosion limits -lower [%]	2%				


Packaging



Specification

Appearance	Clear colorless liquid
Purity (by GC)	Min 99.0%
Density (d _{20°C/4°C})	0.946 - 0.950 g/ml
Water (H ₂ O)	Max 0.1%

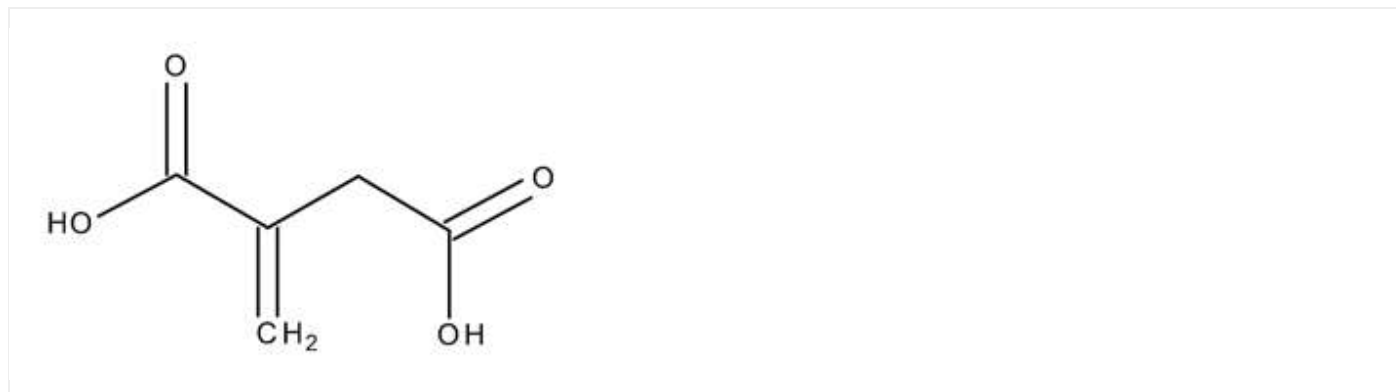
Safety Information and Hazard Symbols


Symbol: GHS02,GHS05,GHS06 Signal Word: Danger UN No.: 2529 IMCO Class No.: 3 (8) Packing Group: III Hazardous Statement: H226-H302-H311-H314 Precaution Statement: P210-P280-P303+361+353-P305+351+338-P310

ITACONIC ACID 99% FOR SYNTHESIS

Methylene succinic acid

Product Code.	01481	Grade	For Synthesis
Purity	99%	CAS No.	97-65-4
Molecular Formula	C5H6O4	Molecular Weight	130.10
H.S.Code	2917.19600	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1.5 -2.0	Melting point/ Freezing point [°C]	165 - 168 °C	Auto-ignition temperature [°C]	800 °C
Density [g/cm3]	1.573 g/cm3 at 25 °C				

Specification

Appearance	White crystalline powder
Assay	Min 99%
Melting range	164 - 167°C

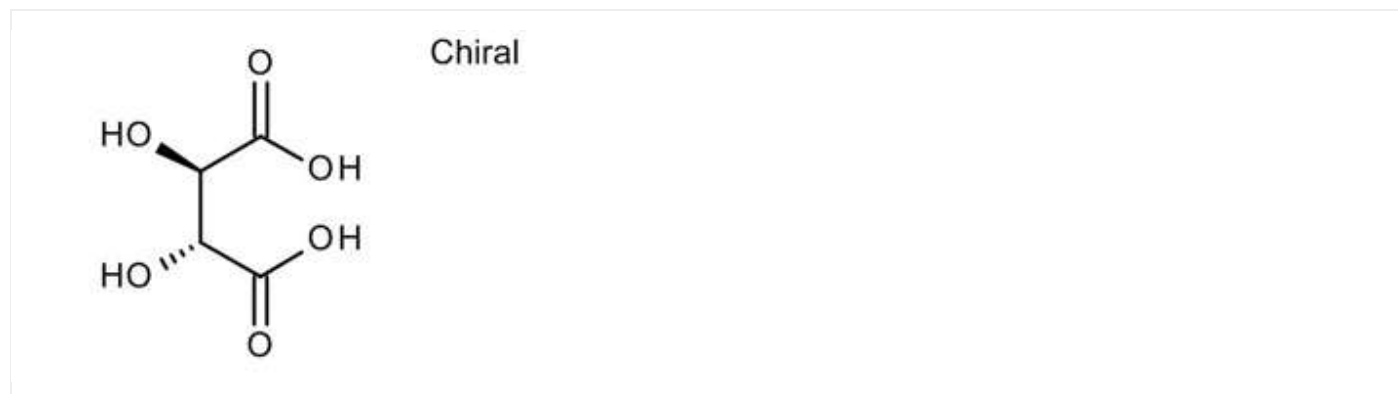
Safety Information and Hazard Symbols


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

L (+) TARTARIC ACID 99.5% EXTRAPURE

Dextro rotatory (+) (2R,3R)-(+)-Tartaric acid, L-Threonic acid

Product Code.	02618	Grade	Extrapure
Purity	99.5%	CAS No.	87-69-4
Molecular Formula	C4H6O6	Molecular Weight	150.09
H.S.Code	2918.12000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1 - 2 at 150 g/l at 25 °C	Melting point/ Freezing point [°C]	170 - 172 °C	Auto-ignition temperature [°C]	425°C
Flash point [°C]	150 °C	Vapour density	5.18	Density [g/cm3]	1.76
Solubility in water [% weight]	150 g/l at 20 °C - completely soluble				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99.5%
Specific optical rotation ([α] _D ²⁰)	+12.0° to +12.8°
Chloride (Cl)	Max 0.002%
Sulphate (SO ₄)	Max 0.015%

Oxalate (as C ₂ H ₂ O ₄)	Max 0.05%
Heavy metal (as Pb)	Max 0.001%
Copper (Cu)	Max 0.001%
Zinc (Zn)	Max 0.001%
Arsenic (As)	Max 0.0001%
Loss on drying (at 105°C)	Max 0.5%
Sulphated ash	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS07

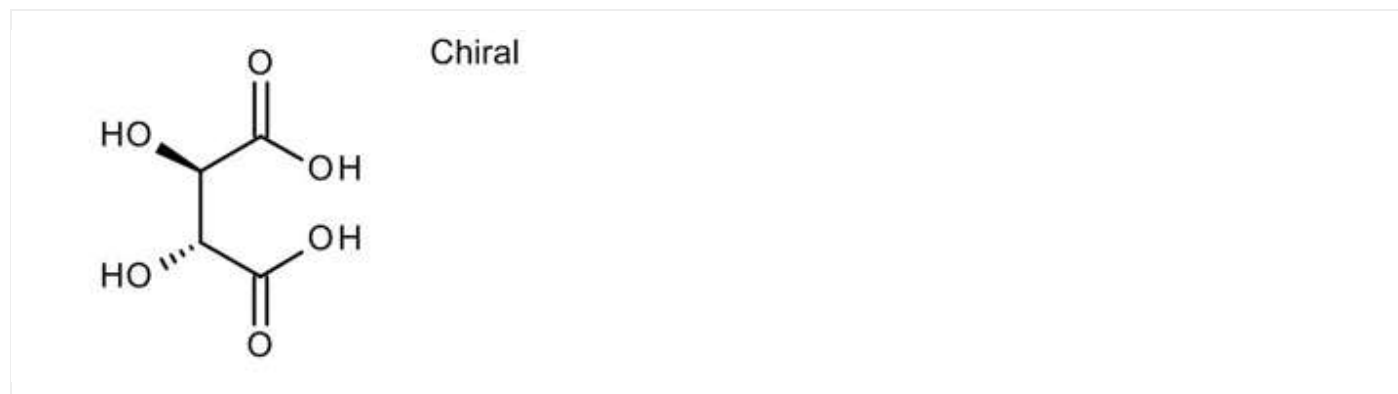
Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

L (+) TARTARIC ACID 99.7% AR
 (2R,3R)-(+)-Tartaric acid, L-Threonic acid

Product Code.	02619	Grade	AR
Purity	99.7%	CAS No.	87-69-4
Molecular Formula	C ₄ H ₆ O ₆	Molecular Weight	150.09
H.S.Code	2918.12000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1 - 2 at 150 g/l at 25 °C	Melting point/ Freezing point [°C]	170 - 172 °C	Auto-ignition temperature [°C]	425°C
Flash point [°C]	150 °C	Vapour density	5.18	Density [g/cm ³]	1.76
Solubility in water [% weight]	150 g/l at 20 °C - completely soluble				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min. 99.7%
Specific optical rotation ([α] _D ²⁰)	+12.0° to +12.8°
Sulphated ash	Max. 0.01%
Chloride (Cl)	Max. 0.0005%

Sulphate (SO ₄)	Max. 0.0005%
Heavy metal (as Pb)	Max. 0.0005%
Iron (Fe)	Max. 0.0005%
Calcium (Ca)	Max. 0.002%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

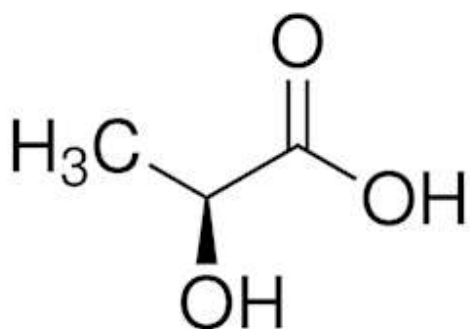
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

LACTIC ACID 88% AR

(S)-2-Hydroxypropionic acid, Sarcosolactic acid; L-(+)-Lactic acid

Product Code.	01494	Grade	AR
Purity	88%	CAS No.	79-33-4
Molecular Formula	C3H6O3	Molecular Weight	90.08
H.S.Code	2918.11100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Slight acrid odor
pH value	2	Melting point/ Freezing point [°C]	17 °C	Flash point [°C]	113 °C
Boiling point [°C]	122 °C	Vapour pressure [20°C]	0 kPa (@ 20°C)	Vapour density	>1
Density [g/cm ³]	1.209	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-0.7

Packaging

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Specification

Appearance	A clear colorless to slightly yellow syrupy liquid
Colour scale	Max. 50 APHA
Positive test for lactate	Passes test
Total acidity (as lactic acid)	Min. 88.0% w/w
Stereochemical purity (L+)	Min. 97.0%

Density (at 20°C)	1.19-1.21 g/ml
Heavy metal (as Pb)	Max. 0.001%
Iron (Fe)	Max. 0.001%
Calcium (Ca)	Max. 0.001%
Chloride (Cl)	Max. 0.001%
Sulphate (SO ₄)	Max. 0.001%
Sulphated ash	Max. 0.05%
Cyanide (CN)	Max. 0.0005%
Lead (Pb)	Max. 0.00005%
Arsenic (As)	Max. 0.0001%
Mercury (Hg)	Max. 0.0001%
Reducing substance (as sugars)	Passes test
Citric, oxalic, tartaric and phosphoric acid	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

Hazardous Statement: H315-H318

Precaution Statement: P280-P305 + P351 + P338

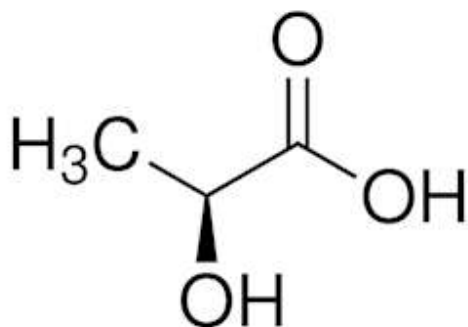
Risk Statement: 35

Safety Statement: 26-36/37/39-45

LACTIC ACID 88% EXTRAPURE

(S)-2-Hydroxypropionic acid, Sarcosolactic acid; L-(+)-Lactic acid

Product Code.	01493	Grade	
Purity	88%	CAS No.	79-33-4
Molecular Formula	C3H6O3	Molecular Weight	90.08
H.S.Code	2918.11100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Slight acrid odor
pH value	2	Melting point/ Freezing point [°C]	17 °C	Flash point [°C]	113 °C
Boiling point [°C]	122 °C	Vapour pressure [20°C]	0 kPa (@ 20°C)	Vapour density	>1
Density [g/cm3]	1.209	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-0.7

Packaging

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Specification

Appearance	A clear colorless to slightly yellow syrupy liquid
Assay	88 - 92%
Sulphated ash	Max 0.1%
Iron (Fe)	Max 0.001%
Chloride (Cl)	Max 0.02%

Sulphate (SO ₄)	Max 0.02%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0003%
Calcium (Ca)	Max 0.02%
Mercury (Hg)	Max 0.0001%
Lead (Pb)	Max 0.0005%
Weight/ mL at 20°C	1.20 - 1.21 g

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

Hazardous Statement: H315-H318

Precaution Statement: P280-P305 + P351 + P338

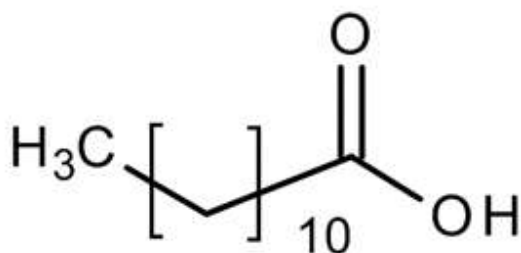
Risk Statement: 35

Safety Statement: 26-36/37/39-45

LAURIC ACID 99% EXTRAPURE

ABL; Dodecanoic acid

Product Code.	01506	Grade	
Purity	99%	CAS No.	143-07-7
Molecular Formula	C ₁₂ H ₂₄ O ₂	Molecular Weight	200.32
H.S.Code	2915.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White flakes	Odour	Slight odor of Bay Oil
Flash point [°C]	113 °C	Boiling point [°C]	225 °C	Vapour pressure mm/Hg	67 mm Hg at 210 °C
Vapour density	6.91	Density [g/cm ³]	0.883	Solubility in water [% weight]	Insoluble in water
Partition coefficient Log Pow octanol / water at 20°C	4.2				

Packaging

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Specification

Appearance	White flakes
Assay	Min 99%
Melting point	43 - 45 °C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

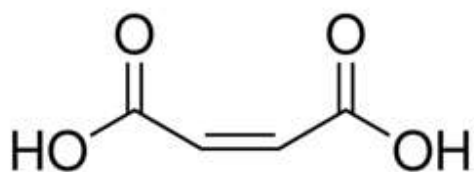
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

MALEIC ACID 99.5% AR

cis-Butenedioic acid, Toxilic acid

Product Code.	01613	Grade	AR
Purity	99.5%	CAS No.	110-16-7
Molecular Formula	C4H4O4	Molecular Weight	116.08
H.S.Code	2917.19100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint, acidulous odor
pH value	<7	Melting point/ Freezing point [°C]	137 - 140 °C	Flash point [°C]	127 °C
Boiling point [°C]	160 °C	Density [g/cm3]	1.58	Solubility in water [% weight]	788 g/l at 20 °C
Partition coefficient Log Pow octanol / water at 20°C	0.48	Explosion limits -lower [%]	2.70%		

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99.5%
Insoluble matter in water	Passes test
Sulphated ash	Max 0.005%

Chloride (Cl)	Max 0.001%
Sulphate (SO ₄)	Max 0.001%
Cadmium (Cd)	Max 0.0001%
Calcium (Ca)	Max 0.0005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Magnesium (Mg)	Max 0.0005%
Potassium (K)	Max 0.002%
Sodium (Na)	Max 0.002%
Zinc (Zn)	Max 0.0005%
Fumaric acid	Max 0.5%
Water (by KF)	Max 2.0%

Safety Information and Hazard Symbols

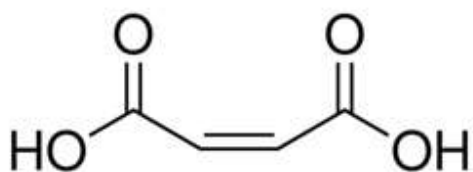


Symbol: GHS07
 Signal Word: Warning
 UN No.: 3261
 IMCO Class No.: 8
 Packing Group: III
 Hazardous Statement: H302-H319
 Precaution Statement: P261-P280-P305 + P351 + P338

MALEIC ACID 99% FOR SYNTHESIS

cis-Butenedioic acid, Toxilic acid

Product Code.	01612	Grade	For Synthesis
Purity	99%	CAS No.	110-16-7
Molecular Formula	C4H4O4	Molecular Weight	116.08
H.S.Code	2917.19100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Faint, acidulous odor
pH value	<7	Melting point/ Freezing point [°C]	137 - 140 °C	Flash point [°C]	127 °C
Boiling point [°C]	160 °C	Density [g/cm3]	1.58	Solubility in water [% weight]	788 g/l at 20 °C
Partition coefficient Log Pow octanol / water at 20°C	0.48	Explosion limits -lower [%]	2.70%		

Packaging

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Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99%
Water (H2O)	Max 2%
Sulphated ash	Max 0.1%

Fumaric acid	Max 1.5%
Heavy metal (as Pb)	Max 0.001%

Safety Information and Hazard Symbols

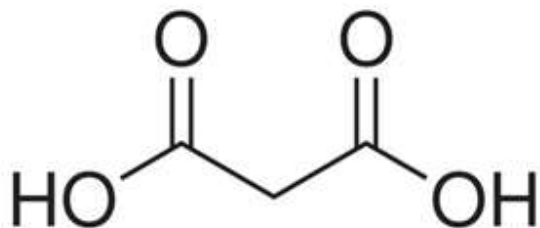


Symbol: GHS07
Signal Word: Warning
UN No.: 3261
IMCO Class No.: 8
Packing Group: III
Hazardous Statement: H302-H319
Precaution Statement: P261-P280-P305 + P351 + P338

MALONIC ACID 99% AR

Propanedioic acid

Product Code.	02920	Grade	AR
Purity	99%	CAS No.	141-82-2
Molecular Formula	C3H4O4	Molecular Weight	104.06
H.S.Code	2917.19200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	132 - 135 °C	Auto-ignition temperature [°C]	580 °C	Flash point [°C]	172 °C
Boiling point [°C]	135°C	Density [g/cm3]	1.6	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99.0%
Ash content	Max 0.05%
Melting point	134 - 136 °C

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

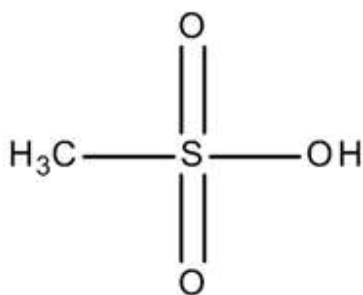
Hazardous Statement: H302-H318

Precaution Statement: P280-P305 + P351 + P338

METHANESULPHONIC ACID 98% FOR SYNTHESIS

Methylsulfonic acid

Product Code.	01689	Grade	For Synthesis
Purity	98%	CAS No.	75-75-2
Molecular Formula	CH4O3S	Molecular Weight	96.11
H.S.Code	2904.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless to yellow	Odour	characteristic
pH value	1	Melting point/ Freezing point [°C]	17 - 19 °C	Flash point [°C]	189 °C
Boiling point [°C]	167 °C	Vapour density	3.32	Density [g/cm3]	1.481
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	2.38	Explosion limits - upper [%]	24.30%
Explosion limits -lower [%]	11.40%				

Packaging

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Specification

Appearance	A clear colorless to yellowish brown liquid
Assay (alkalimetric)	Min 98.0%
Colour scale	Max 150 APHA
Density (d20°C/4°C)	1.478 - 1.482 g/ml

Safety Information and Hazard Symbols



Symbol: GHS05,GHS07

Signal Word: Danger

UN No.: 2922

IMCO Class No.: 8,6.1

Packing Group: II

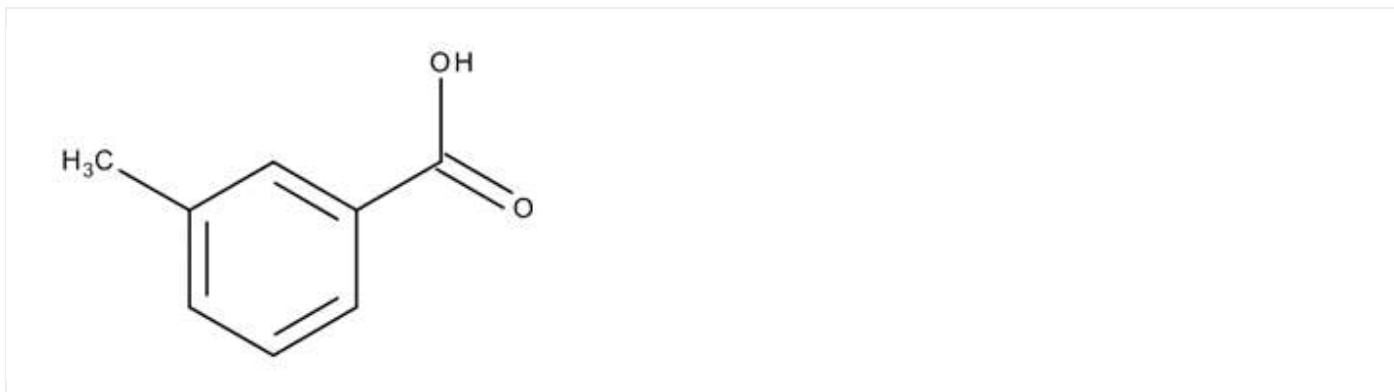
Hazardous Statement: H290-H302+312-H314-H335

Precaution Statement: P280-P301+330+331-P302+352-P305 + P351 + P338-P310

M-TOLUIC ACID 98% FOR SYNTHESIS

3-Methylbenzoic acid

Product Code.	02731	Grade	For Synthesis
Purity	98%	CAS No.	99-04-7
Molecular Formula	C ₈ H ₈ O ₂	Molecular Weight	136.15
H.S.Code	2916.31900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to off white	Odour	Weak aromatic odour
pH value	3.4	Melting point/ Freezing point [°C]	107 - 113 °C	Flash point [°C]	150 °C
Boiling point [°C]	263 °C	Density [g/cm ³]	1.054	Solubility in water [% weight]	1 g/l at (20°C)

Packaging

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Specification

Appearance	White to off white to yellow to beige powder or flakes
Assay	Min 98%
Melting range	108 - 111°C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H302

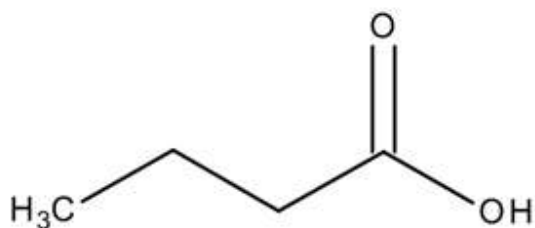
Risk Statement: 22

Safety Statement: 22-24/25-36

N-BUTYRIC ACID 99% FOR SYNTHESIS

n-Butanoic Acid, Ethylacetic Acid; Butyric Acid.

Product Code.	00588	Grade	For Synthesis
Purity	99%	CAS No.	107-92-6
Molecular Formula	C4H8O2	Molecular Weight	88.11
H.S.Code	2915.60100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Unpleasant
pH value	3 at 10 g/l at 20 °C	Melting point/ Freezing point [°C]	-6 - -3 °C	Auto-ignition temperature [°C]	440 °C
Flash point [°C]	72 °C	Boiling point [°C]	162 °C	Vapour pressure [20°C]	0.57 hPa at 20 °C
Vapour pressure mm/Hg	0.43 mm Hg at 20 °C	Vapour density	3.04	Density [g/cm3]	0.964
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	0.79	Explosion limits - upper [%]	10%
Explosion limits -lower [%]	2%				

Packaging



Specification

Appearance	Clear colorless liquid
Assay	Min 99.0%
Density (d _{20°C/4°C})	0.956 - 0.958 g/ml
Water (H ₂ O)	Max 0.2%
Refractive index (20°C; 589 nm)	1.3965 - 1.3990

Safety Information and Hazard Symbols

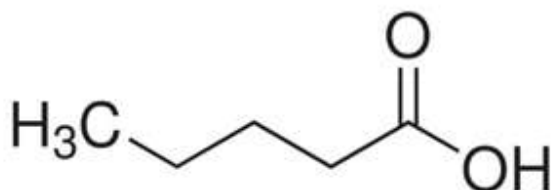


Symbol: GHS05
Signal Word: Danger
UN No.: 2820
IMCO Class No.: 8
Packing Group: III
Hazardous Statement: H314
Precaution Statement: P280-P305 + P351 + P338-P310

N-VALERIC ACID 98% FOR SYNTHESIS

Pentanoic acid

Product Code.	02816	Grade	For Synthesis
Purity	98%	CAS No.	109-52-4
Molecular Formula	C5H10O2	Molecular Weight	102.13
H.S.Code	2915.60200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent odour
pH value	2.7	Melting point/ Freezing point [°C]	-20 - -18 °C	Flash point [°C]	96 °C
Boiling point [°C]	110 - 111 °C	Initial boiling point [°C]	110°C	Final boiling point [°C]	111 °C
Vapour pressure [20°C]	0.20 hPa at 20 °C	Vapour density	3.53	Density [g/cm3]	0.939
Solubility in water [% weight]	40 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	1.39	Explosion limits - upper [%]	7.60%
Explosion limits -lower [%]	1.60%				

Packaging

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Specification

Appearance	Colorless liquid with unpleasant odour
Purity (by GC)	Min 98.0%
Density (d20°C/4°C)	0.938 - 0.940 g/ml

Identity (IR)

Conforms

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3265

IMCO Class No.: 8

Packing Group: II

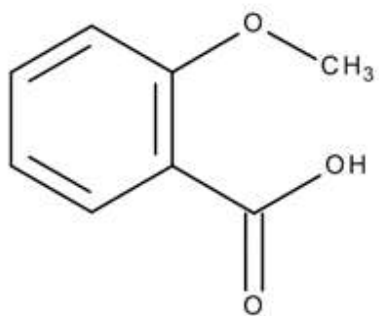
Hazardous Statement: H314-H412

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

O-ANISIC ACID 98% FOR SYNTHESIS

2-Methoxybenzoic acid, O-Methylsalicylic acid

Product Code.	00273	Grade	
Purity	98%	CAS No.	579-75-9
Molecular Formula	C8H8O3	Molecular Weight	152.15
H.S.Code	2918.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	98-101oC
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Packaging



Specification

Appearance	White crystalline powder
Assay	Min 98%
Melting range	98 - 101 deg C
Identity (IR)	Confirms

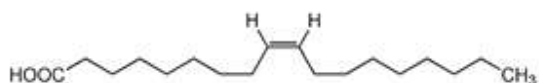
Safety Information and Hazard Symbols

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OLEIC ACID EXTRAPURE

Suitable for Pharma industry cis-9-Octadecenoic acid; Elainic acid

Product Code.	01889	Grade	Extrapure
Purity	99%	CAS No.	112-80-1
Molecular Formula	C17H33.COOH	Molecular Weight	282.47
H.S.Code	3823.12000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Pale yellow	Odour	Peculiar Lard-Like
Melting point/ Freezing point [°C]	13 - 14 °C	Auto-ignition temperature [°C]	363°C	Flash point [°C]	113 °C
Boiling point [°C]	194 - 195 °C	Initial boiling point [°C]	194°C	Final boiling point [°C]	195 °C
Vapour pressure mm/Hg	1 mm Hg at 176 °C	Vapour density	9.7	Density [g/cm3]	0.89
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	Pale yellow oily liquid
Sulphated ash	Max 0.01%
Mineral acids	Passes test
Iodine number	89 - 95

Neutral fat, mineral oils	Passes test
Acid number	196 - 204
Peroxide number	Max 10

Safety Information and Hazard Symbols

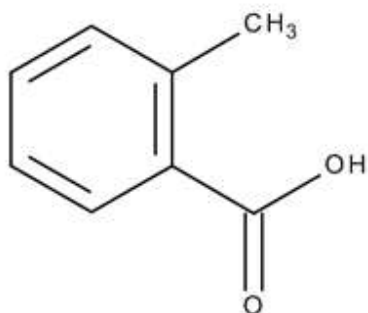


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315

O-TOLUIC ACID 98% FOR SYNTHESIS

2-Methylbenzoic acid

Product Code.	02732	Grade	
Purity	98%	CAS No.	118-90-1
Molecular Formula	C ₈ H ₈ O ₂	Molecular Weight	136.15
H.S.Code	2916.31900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Cream coloured powder	Odour	Weak aromatic odour
Melting point/ Freezing point [°C]	102 - 104 °C	Flash point [°C]	148 °C	Boiling point [°C]	258 - 259 °C
Initial boiling point [°C]	258°C	Final boiling point [°C]	259 °C	Density [g/cm ³]	1.062
Solubility in water [% weight]	Slightly soluble in water				

Packaging

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Specification

Appearance	Cream colored crystals/powder
Assay	Min 98%
Melting range	101 - 104 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

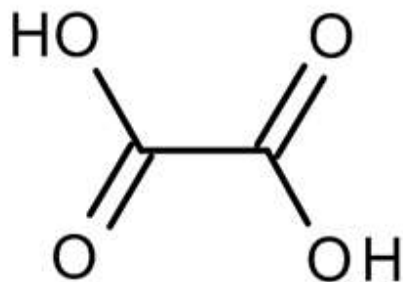
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

OXALIC ACID DIHYDRATE 99.5% AR

Ethanedioic acid

Product Code.	01901	Grade	AR
Purity	99.5%	CAS No.	6153-56-6
Molecular Formula	C2H2O4.2H2O	Molecular Weight	126.07
H.S.Code	2917.11100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Odorless
pH value	1.3	Melting point/ Freezing point [°C]	189.5 °C	Boiling point [°C]	157 °C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Vapour density	4.4	Density [g/cm3]	1.9
Solubility in water [% weight]	1g/7ml of water				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99.5%
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.0005%
Sulphate (SO4)	Max 0.005%

Total nitrogen (N)	Max 0.001%
Reaction against H ₂ SO ₄	Passes test
Heavy metal (as Pb)	Max 0.0005%
Calcium (Ca)	Max 0.001%
Iron (Fe)	Max 0.0002%
Residue on ignition (at 800°C)	Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 3261

IMCO Class No.: 8

Packing Group: III

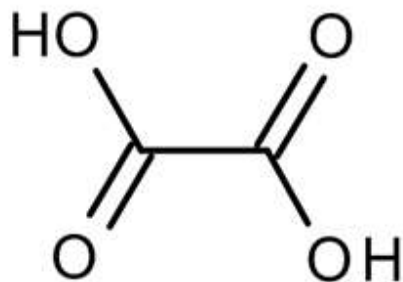
Hazardous Statement: H302 + H312-H314

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

OXALIC ACID DIHYDRATE 99% EXTRAPURE

Ethanedioic acid

Product Code.	01900	Grade	Extrapure
Purity	99%	CAS No.	6153-56-6
Molecular Formula	C2H2O4.2H2O	Molecular Weight	126.07
H.S.Code	2917.11100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystalline	Odour	Odorless
pH value	1.3	Melting point/ Freezing point [°C]	189.5 °C	Boiling point [°C]	157 °C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Vapour density	4.4	Density [g/cm3]	1.9
Solubility in water [% weight]	1g/7ml of water				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min. 99.0%
Chloride (Cl)	Max. 0.0025%
Sulphate (SO4)	Max. 0.02%
Total nitrogen (N)	Max. 0.005%

Heavy metal (as Pb)	Max. 0.002%
Iron (Fe)	Max. 0.001%
Residue on ignition (at 800°C)	Max. 0.05%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 3261

IMCO Class No.: 8

Packing Group: III

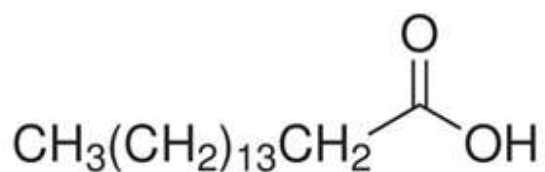
Hazardous Statement: H302 + H312-H314

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

PALMITIC ACID 98% FOR BIOCHEMISTRY

1-Pentadecanecarboxylic acid, C16:0, Cetylic acid, Hexadecanoic acid, NSC 5030, PamOH

Product Code.	01915	Grade	
Purity	98%	CAS No.	57-10-3
Molecular Formula	C16H32O2	Molecular Weight	256.43
H.S.Code	2915.70100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White scales	Melting point/ Freezing point [°C]	61 - 62.5 °C
Flash point [°C]	206 °C	Boiling point [°C]	271.5 °C	Vapour pressure mm/Hg	13 mm Hg at 210 °C
Density [g/cm3]	0.852	Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	7.2

Packaging



Specification

Appearance	White crystalline powder , granules or flakes
Assay	Min 98%
Melting range	60 - 62 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

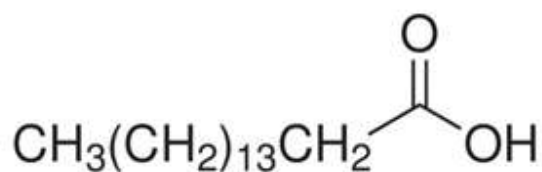
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

PALMITIC ACID 99% AR FOR BIOCHEMISTRY

1-Pentadecanecarboxylic acid, C16:0, Cetylic acid, Hexadecanoic acid, NSC 5030, PamOH

Product Code.	01916	Grade	
Purity	99%	CAS No.	57-10-3
Molecular Formula	C16H32O2	Molecular Weight	256.43
H.S.Code	2915.70100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White scales	Melting point/ Freezing point [°C]	61 - 62.5 °C
Flash point [°C]	206 °C	Boiling point [°C]	271.5 °C	Vapour pressure mm/Hg	13 mm Hg at 210 °C
Density [g/cm ³]	0.852	Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	7.2

Packaging

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Specification

Appearance	White crystalline powder , granules or flakes
Assay	Min 99%
Melting point	59 - 62 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

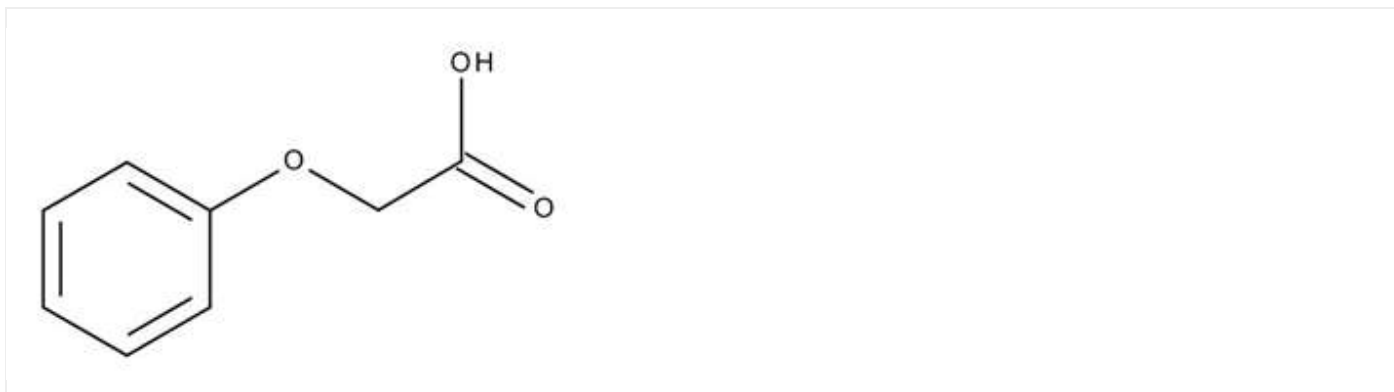
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

PHENOXYACETIC ACID 98% FOR SYNTHESIS

Glycolic acid phenyl ether

Product Code.	01980	Grade	For Synthesis
Purity	98%	CAS No.	122-59-8
Molecular Formula	C8H8O3	Molecular Weight	152.15
H.S.Code	2918.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Cream coloured powder	Odour	Odorless
Melting point/ Freezing point [°C]	98 - 100 °C	Boiling point [°C]	285 °C	Partition coefficient Log Pow octanol / water at 20°C	1.34

Specification

Appearance	Cream colored crystalline powder
Assay (alkalimetric)	Min 98.0%
Melting point	97 - 100°C

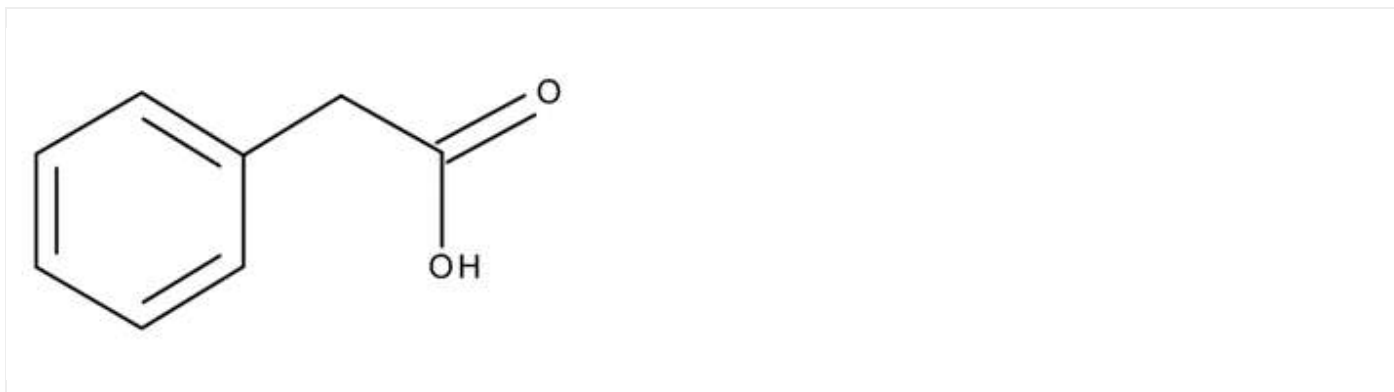
Safety Information and Hazard Symbols

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

PHENYLACETIC ACID 99% EXTRAPURE

PAA; a-toluic acid; benzeneacetic acid; alpha tolylic acid; 2-phenylacetic acid

Product Code.	01982	Grade	
Purity	99%	CAS No.	103-82-2
Molecular Formula	C8H8O2	Molecular Weight	136.14
H.S.Code	2916.34000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless fluffy powder	Odour	Stench
Melting point/ Freezing point [°C]	76 - 78 °C	Flash point [°C]	132 °C	Boiling point [°C]	265 °C
Vapour pressure mm/Hg	1 mm Hg at 97 °C	Density [g/cm ³]	1.081	Solubility in water [% weight]	15 g/l at 20 °C
Partition coefficient Log Pow octanol / water at 20°C	1.37 - 1.43				

Packaging

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Specification

Appearance	White to pale yellow fluffy leaflets / powder
Assay (alkalimetric)	Min. 99%
Melting point	74 - 77°C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

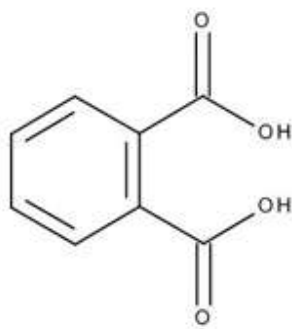
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

PHTHALIC ACID 99% AR

1,2-Benzenedicarboxylic acid

Product Code.	02027	Grade	
Purity	99.0%	CAS No.	88-99-3
Molecular Formula	C8H6O4	Molecular Weight	166.13
H.S.Code	2917.39300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2	Melting point/ Freezing point [°C]	210 - 211 °C	Flash point [°C]	168°C
Vapour density	5.73	Density [g/cm3]	1.593	Solubility in water [% weight]	Slightly soluble in water
Partition coefficient Log Pow octanol / water at 20°C	1.415				

Packaging

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Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 99.0%
Substance insoluble in Na2CO3 solution	Max 0.05%
Iron (Fe)	Max 0.001%
Chloride (Cl)	Max 0.005%

Sulphate (SO ₄)	Max 0.005%
Nitrate (NO ₃)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%
Water (H ₂ O)	Max 0.5%
Sulphated ash	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

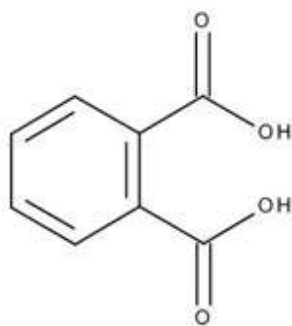
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

PHTHALIC ACID 99% FOR SYNTHESIS

1,2-Benzenedicarboxylic acid

Product Code.	02026	Grade	For Synthesis
Purity	99%	CAS No.	88-99-3
Molecular Formula	C8H6O4	Molecular Weight	166.13
H.S.Code	2917.39300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2	Melting point/ Freezing point [°C]	210 - 211 °C	Flash point [°C]	168°C
Vapour density	5.73	Density [g/cm3]	1.593	Solubility in water [% weight]	Slightly soluble in water
Partition coefficient Log Pow octanol / water at 20°C	1.415				

Packaging

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Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99.0%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

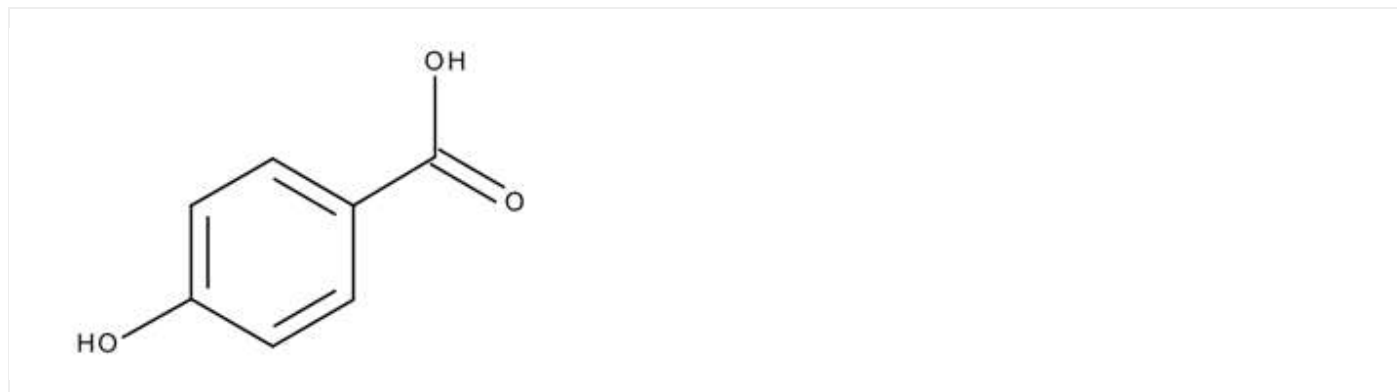
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

P-HYDROXYBENZOIC ACID 98% FOR SYNTHESIS

4-Hydrobenzoic acid

Product Code.	01408	Grade	
Purity	98%	CAS No.	99-96-7
Molecular Formula	C7H6O3	Molecular Weight	138.12
H.S.Code	2918.29900	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	Cream colored powder	pH value	3.3 at 1 g/l
Melting point/ Freezing point [°C]	213 - 217 °C	Density [g/cm ³]	1.46	Solubility in water [% weight]	5 at 1 g/l

Specification

Appearance	White to cream color powder
Assay (HPLC, area%)	Min 98%
Melting range	212 - 215°C

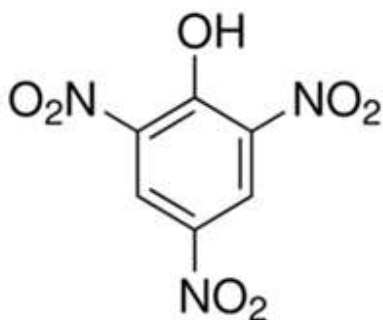
Safety Information and Hazard Symbols


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

PICRIC ACID 99.8% AR

All data refer to the anhydrous substance. 60% water added to ensure safety in transit. Fixative for tissue for determination of creatinine. 2,4,6-Trinitrophenol; PA

Product Code.	02036	Grade	
Purity	99.8%	CAS No.	88-89-1
Molecular Formula	C6H3N3O7	Molecular Weight	229.11
H.S.Code	2908.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow Crystals	Odour	Odorless
Melting point/ Freezing point [°C]	121 - 123 °C	Auto-ignition temperature [°C]	300°C	Flash point [°C]	150 °C
Vapour density	7.9	Density [g/cm3]	1.763	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	1.33				

Packaging

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Specification

Appearance	Yellow crystals
Assay (acidimetric)	Min 99.8%
Substance insoluble in toluene	Max 0.1%
Melting point	120 - 122 deg C
Chloride (Cl)	Max 0.0005%

Sulphate (SO ₄)	Max 0.005%
Sulphated ash	Max 0.02%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS06

Signal Word: Danger

UN No.: 1344

IMCO Class No.: 4.1

Packing Group: I

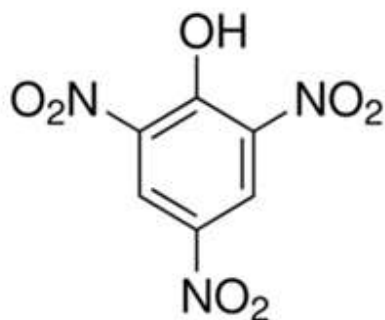
Hazardous Statement: H228-H301-H311-H332

Precaution Statement: P210-P280-P301 + P310-P312

PICRIC ACID 99% EXTRAPURE

All data refer to the anhydrous substance. 50% water added to ensure safety in transit. 2,4,6-Trinitrophenol; PA

Product Code.	02035	Grade	
Purity	99%	CAS No.	88-89-1
Molecular Formula	C6H3N3O7	Molecular Weight	229.11
H.S.Code	2908.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow Crystals	Odour	Odorless
Melting point/ Freezing point [°C]	121 - 123 °C	Auto-ignition temperature [°C]	300°C	Flash point [°C]	150 °C
Vapour density	7.9	Density [g/cm3]	1.763	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	1.33				

Packaging

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Specification

Appearance	Yellow crystals
Assay (alkalimetric)	Min 99%
Substance insoluble in toluene	Max 0.1%
Melting range	119 - 122°C
Sulphate (SO4)	Max 0.5%

Sulphated ash	Max 0.1%
Chloride (Cl)	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS06

Signal Word: Danger

UN No.: 1344

IMCO Class No.: 4.1

Packing Group: I

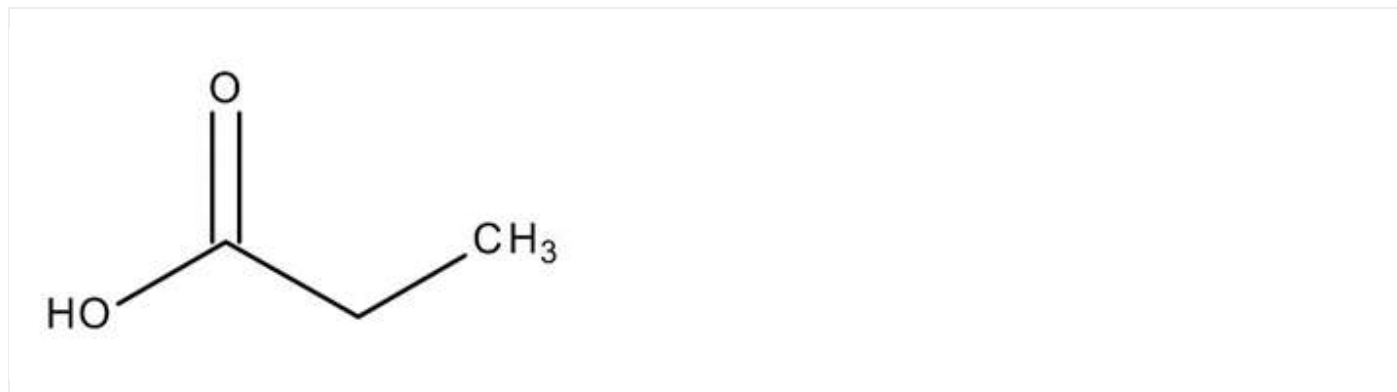
Hazardous Statement: H228-H301-H311-H332

Precaution Statement: P210-P280-P301 + P310-P312

PROPIONIC ACID 99% FOR SYNTHESIS

Acid C3, Propanoic acid, Propanyl acid

Product Code.	02195	Grade	For Synthesis
Purity	99%	CAS No.	79-09-4
Molecular Formula	CH ₃ .CH ₂ .COOH	Molecular Weight	74.08
H.S.Code	2915.50000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pungent odour
pH value	2.5	Melting point/ Freezing point [°C]	24 °C	Auto-ignition temperature [°C]	513 °C
Flash point [°C]	54 °C	Boiling point [°C]	141 °C	Vapour pressure [20°C]	3.2 hPa at 20 °C
Vapour density	2.56	Density [g/cm ³]	0.993	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.25	Explosion limits - upper [%]	12.10%	Explosion limits -lower [%]	2.90%

Packaging

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Specification

Appearance	Clear colorless liquid with strong pungent odor
Assay	Min 99%
Weight/ mL at 20°C	0.991 - 0.994 g

Refractive index (20°C; 589 nm)

1.386 - 1.388

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3463

IMCO Class No.: 8,3

Packing Group: II

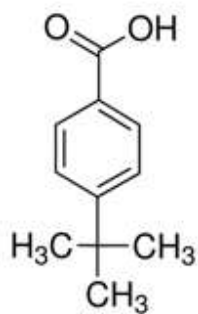
Hazardous Statement: H314

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

P-TERT-BUTYL BENZOIC ACID 99% FOR SYNTHESIS

PTBBA

Product Code.	00568	Grade	For Synthesis
Purity	99%	CAS No.	98-73-7
Molecular Formula	C ₁₁ H ₁₄ O ₂	Molecular Weight	178.23
H.S.Code	2916.39900	Shelf Life	60 Months



Physical Properties

Packaging



Specification

Appearance	White to Off-White crystalline Powder or Crystals or Granules or Chunks
Assay (alkalimetric)	Min 99.0%
Identity (IR)	Passes test
Melting range	165-167°C

Safety Information and Hazard Symbols



Symbol: GHS06,GHS07

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: III

Hazardous Statement: H302-H311-H332

Precaution Statement: P280-P312

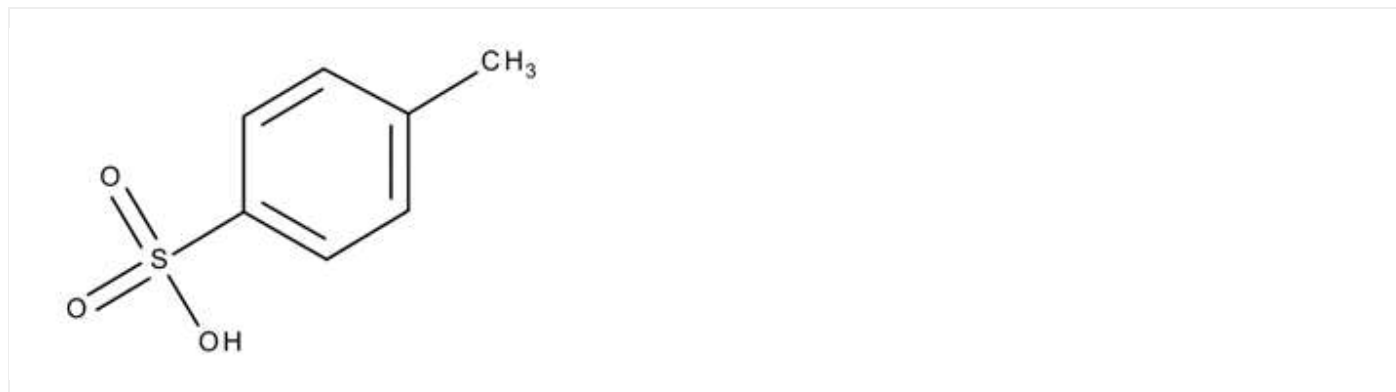
Risk Statement: 22/22

Safety Statement: 22-24/25

P-TOLUENESULPHONIC ACID MONOHYDRATE 98% FOR SYNTHESIS

4-methylbenzenesulfonic acid; Tosylic acid; Tonic acid; PTSA ; (toluene-4-sulphonic acid)

Product Code.	02728	Grade	
Purity	98%	CAS No.	6192-52-5
Molecular Formula	C7H8O3S.H2O	Molecular Weight	190.21
H.S.Code	2904.10900	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	103 - 106 °C
Flash point [°C]	180 °C	Boiling point [°C]	140 °C	Solubility in water [% weight]	Soluble in water

Specification

Appearance	White deliquescent crystalline powder
Assay (alkalimetric)	Min 98%
Water (by KF)	About 11%

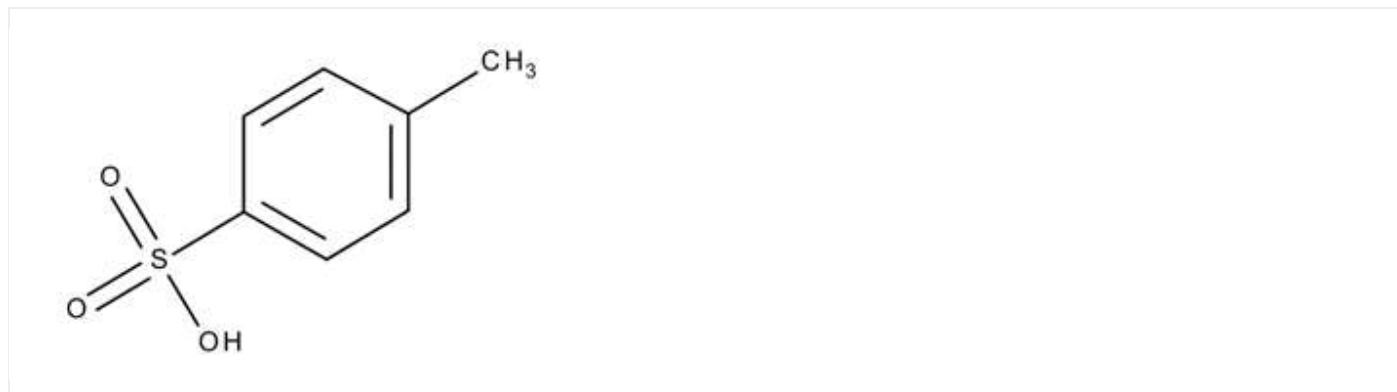
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning UN No.: 2585 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

P-TOLUENESULPHONIC ACID MONOHYDRATE 99% AR

4-methylbenzenesulfonic acid; Tosylic acid; Tonic acid; PTSA ; (toluene-4-sulphonic acid)

Product Code.	02729	Grade	
Purity	98.5%	CAS No.	6192-52-5
Molecular Formula	C7H8O3S.H2O	Molecular Weight	190.22
H.S.Code	2904.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	103 - 106 °C
Flash point [°C]	180 °C	Boiling point [°C]	140 °C	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	White to pink crystalline flakes or powder
Assay (alkalimetric)	Min 98.5%
Sulphated ash	Max 0.1%
Sulphate (SO4)	Max 0.3%
Iron (Fe)	Max 0.01%
Heavy metal (as Pb)	Max 0.001%
Water (by KF)	9 - 13%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

UN No.: 2585

IMCO Class No.: 8

Packing Group: III

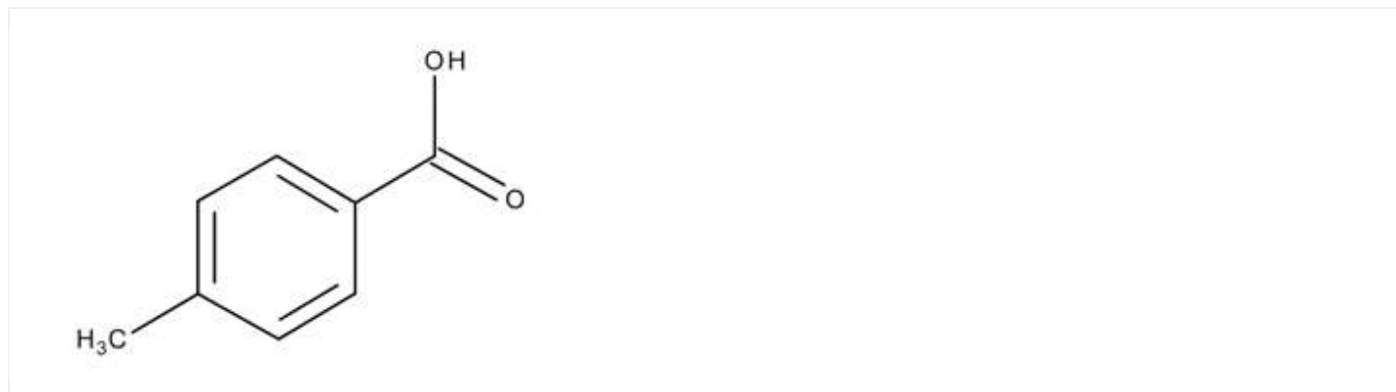
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

P-TOLUIC ACID 99% FOR SYNTHESIS

4-Methylbenzoic acid

Product Code.	02733	Grade	
Purity	98%	CAS No.	99-94-5
Molecular Formula	C ₈ H ₈ O ₂	Molecular Weight	136.15
H.S.Code	2916.31900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to cream crystalline	Odour	Weak aromatic odour
Melting point/ Freezing point [°C]	177 - 180 °C	Boiling point [°C]	274 - 275 °C	Initial boiling point [°C]	274°C
Final boiling point [°C]	275 °C	Solubility in water [% weight]	11.6 g/L (98°C)		

Packaging

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Specification

Appearance	White /Creamish crystalline powder
Assay	Min 98%
Melting range	177-180 deg C

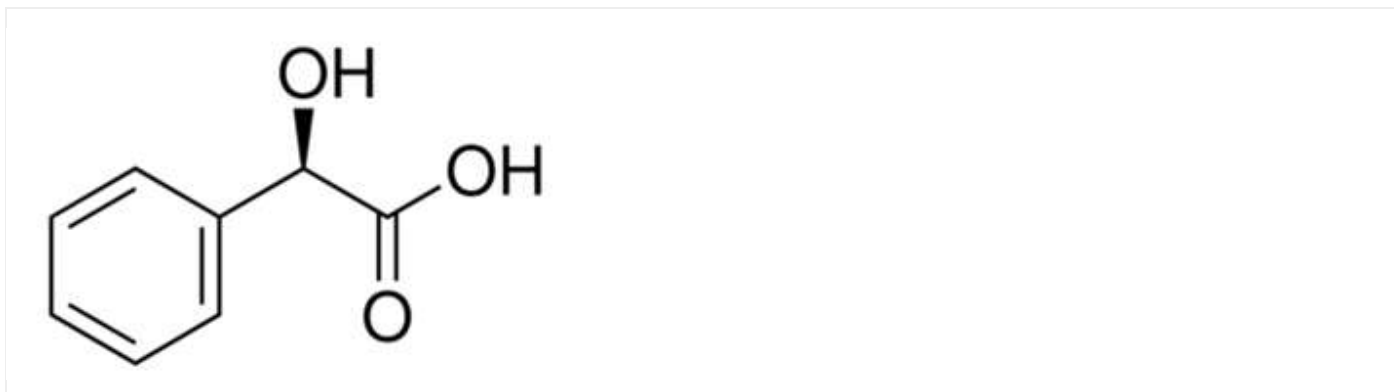
Safety Information and Hazard Symbols

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R (-) MANDELIC ACID 99% FOR SYNTHESIS

(R)- α -Hydroxyphenylacetic acid

Product Code.	01620	Grade	
Purity	99%	CAS No.	611-71-2
Molecular Formula	C8H8O3	Molecular Weight	152.15
H.S.Code	2918.19900	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	White	pH value	2.1 at 60g/l at 20°C
Melting point/ Freezing point [°C]	131.0-133.0	Flash point [°C]	>190.0		

Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 99%
Melting range	131 - 134 deg C

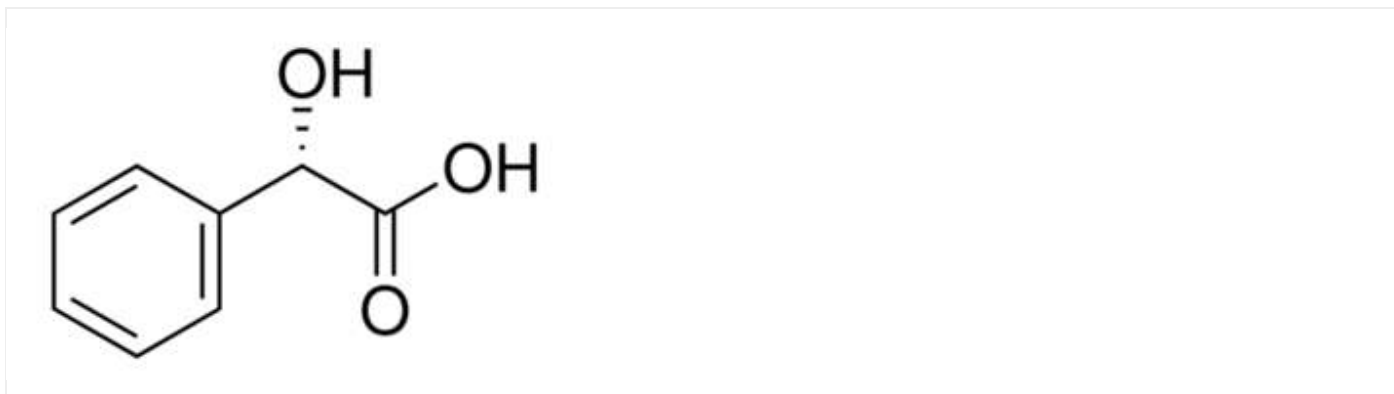
Safety Information and Hazard Symbols


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

S (+) MANDELIC ACID 99% FOR SYNTHESIS

(S)- α -Hydroxyphenylacetic acid

Product Code.	01621	Grade	
Purity	99%	CAS No.	17199-29-0
Molecular Formula	C8H8O3	Molecular Weight	152.15
H.S.Code	2918.19900	Shelf Life	60 Months



Physical Properties

Packaging

Specification

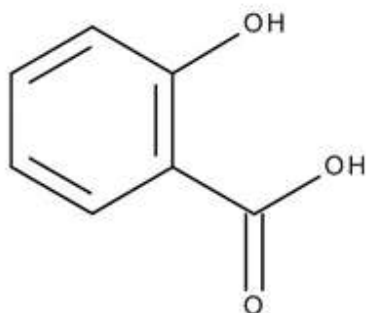
Appearance	White crystalline powder or crystals
Assay (alkalimetric)	Min 99%
Melting range	131-134°C

Safety Information and Hazard Symbols

SALICYLIC ACID 99.5% AR

2-Hydroxybenzoic acid

Product Code.	02279	Grade	
Purity	99.5%	CAS No.	69-72-7
Molecular Formula	C7H6O3	Molecular Weight	138.12
H.S.Code	2918.21100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	2.4 at 20 °C	Melting point/ Freezing point [°C]	158 - 161 °C	Decomposition point [°C]	211°C
Auto-ignition temperature [°C]	545°C	Flash point [°C]	157 °C	Boiling point [°C]	211 °C
Vapour pressure mm/Hg	1 mm Hg at 114 °C	Vapour density	4.8	Density [g/cm3]	1.44
Solubility in water [% weight]	Partially soluble in water	Partition coefficient Log Pow octanol / water at 20°C	2.21	Explosion limits -lower [%]	1.10%

Packaging

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Specification

Appearance	A white powder.
Assay	Min 99.5%
Melting point	159 - 161 deg C
Insoluble matter	Max 0.005%

Sulphated ash	Max 0.05%
Chloride (Cl)	Max 0.001%
Sulphate (SO ₄)	Max 0.02%
Copper (Cu)	Max 0.0002%
Iron (Fe)	Max 0.0001%
Lead (Pb)	Max 0.0002%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

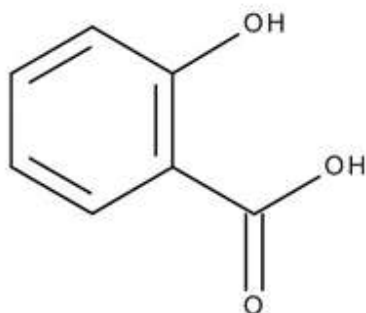
Hazardous Statement: H302-H318

Precaution Statement: P280-P305 + P351 + P338

SALICYLIC ACID 99% EXTRAPURE

Confirms to IP,BP 2-Hydroxybenzoic acid

Product Code.	02278	Grade	Extrapure
Purity	99%	CAS No.	69-72-7
Molecular Formula	C7H6O3	Molecular Weight	138.12
H.S.Code	2918.21100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	2.4 at 20 °C	Melting point/ Freezing point [°C]	158 - 161 °C	Decomposition point [°C]	211°C
Auto-ignition temperature [°C]	545°C	Flash point [°C]	157 °C	Boiling point [°C]	211 °C
Vapour pressure mm/Hg	1 mm Hg at 114 °C	Vapour density	4.8	Density [g/cm3]	1.44
Solubility in water [% weight]	Partially soluble in water	Partition coefficient Log Pow octanol / water at 20°C	2.21	Explosion limits -lower [%]	1.10%

Packaging

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Specification

Appearance	White or almost white, crystalline powder or white or colorless , acicular crystals
Assay	99.0 - 100.5%
Identification as per pharma	Passes test

Appearance of solution	Dissolve 1 g in 10 ml of ethanol (96%). Solution is clear & colourless
Melting range	158 - 161° C
Related Substances	Passes test
Sulphated ash	Max 0.1%
Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.0002%
Chloride (Cl)	Max 0.01%
Sulphate (SO ₄)	Max 0.02%
Loss on drying (over P ₂ O ₅ , in desiccator)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

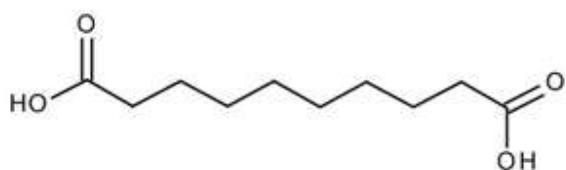
Hazardous Statement: H302-H318

Precaution Statement: P280-P305 + P351 + P338

SEBACIC ACID 98% FOR SYNTHESIS

Decanedioic acid

Product Code.	02285	Grade	
Purity	98%	CAS No.	111-20-6
Molecular Formula	C10H18O4	Molecular Weight	202.25
H.S.Code	2917.13000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	133 - 137 °C	Boiling point [°C]	295 °C	Vapour pressure mm/Hg	1 mm Hg at 183 °C
Density [g/cm ³]	1.21	Solubility in water [% weight]	Slightly soluble in water	Partition coefficient Log Pow octanol / water at 20°C	1.917

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 98.0%
Melting range	130.0 -133.0 degC

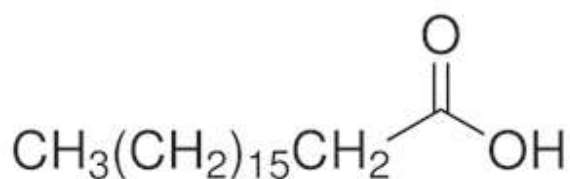
Safety Information and Hazard Symbols

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STEARIC ACID 98% FOR SYNTHESIS

1-Heptadecanecarboxylic acid; Cetylacetic acid; Octadecanoic acid; Stearophanic acid

Product Code.	02561	Grade	
Purity	98%	CAS No.	57-11-4
Molecular Formula	C18H36O2	Molecular Weight	284.48
H.S.Code	2915.70200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White flakes	Odour	Fatty odour
Melting point/ Freezing point [°C]	67 - 72 °C	Flash point [°C]	113 °C	Boiling point [°C]	361 °C
Vapour pressure mm/Hg	1 mm Hg at 174 °C	Vapour density	9.8	Density [g/cm ³]	0.845
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	A white flakes/scales
Assay (mix of fatty acid)	Min 98%
Acid number	194 - 212
Sulphated ash	Max 0.1%
Iodine value	Max 4.0

Congealing point

Min 54 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

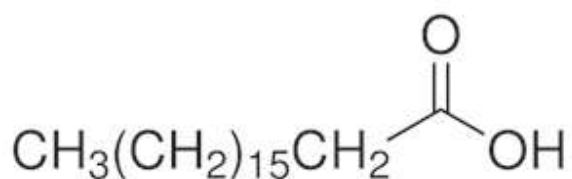
Signal Word: Warning

Hazardous Statement: H315

STEARIC ACID 99% FOR BIOCHEMISTRY

1-Heptadecanecarboxylic acid; Cetylacetic acid; Octadecanoic acid; Stearophanic acid

Product Code.	02562	Grade	
Purity	99%	CAS No.	57-11-4
Molecular Formula	C18H36O2	Molecular Weight	284.48
H.S.Code	2915.70200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White flakes	Odour	Fatty odour
Melting point/ Freezing point [°C]	67 - 72 °C	Flash point [°C]	113 °C	Boiling point [°C]	361 °C
Vapour pressure mm/Hg	1 mm Hg at 174 °C	Vapour density	9.8	Density [g/cm ³]	0.845
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	A white flakes/scales
Assay (mix of fatty acid)	Min 99%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.0001%
Sulphated ash	Max 0.1%

Iodine value	Max 4.0%
Congealing point	Min 54 deg C

Safety Information and Hazard Symbols

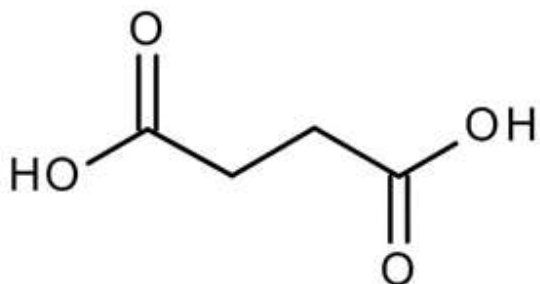


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H315

SUCCINIC ACID 99.5% AR

Butanedioic acid

Product Code.	02576	Grade	
Purity	99.5%	CAS No.	110-15-6
Molecular Formula	C4H6O4	Molecular Weight	118.09
H.S.Code	2917.19300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.7	Melting point/ Freezing point [°C]	184 - 186 °C	Flash point [°C]	160°C
Boiling point [°C]	235 °C	Density [g/cm3]	1.56	Solubility in water [% weight]	Partially soluble in water

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99.5%
Melting point	185 - 190 deg C
Insoluble matter	Max 0.003%
Sulphated ash	Max 0.01%
Chloride (Cl)	Max 0.001%

Sulphate (SO ₄)	Max 0.002%
Ammonium (NH ₄)	Max 0.001%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Substance reducing KMnO ₄ (as O)	Max 0.008%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

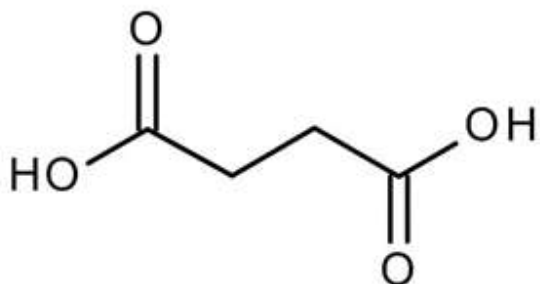
Hazardous Statement: H315-H318-H335

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

SUCCINIC ACID 99% FOR SYNTHESIS

Butanedioic acid

Product Code.	02575	Grade	For Synthesis
Purity	99%	CAS No.	110-15-6
Molecular Formula	C4H6O4	Molecular Weight	118.09
H.S.Code	2917.19300	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.7	Melting point/ Freezing point [°C]	184 - 186 °C	Flash point [°C]	160°C
Boiling point [°C]	235 °C	Density [g/cm3]	1.56	Solubility in water [% weight]	Partially soluble in water

Packaging

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Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 99.0%
Melting point	185 - 189°C
Chloride (Cl)	Max 0.002%
Sulphate (SO4)	Max 0.01%
Heavy metal (as Pb)	Max 0.002%

Iron (Fe)

Max 0.002%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

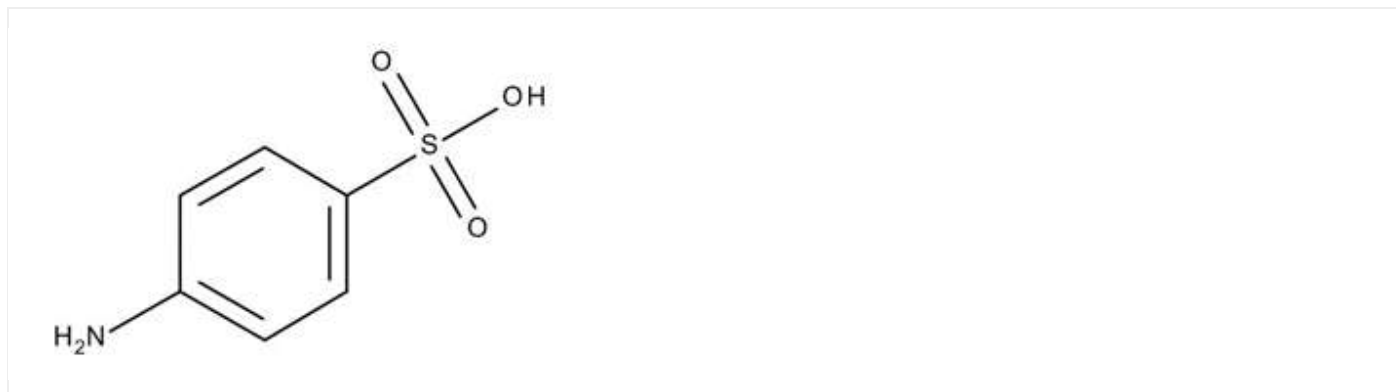
Hazardous Statement: H315-H318-H335

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

SULPHANILIC ACID 99% AR

4-Aminobenzenesulphonic acid

Product Code.	02592	Grade	AR
Purity	99%	CAS No.	121-57-3
Molecular Formula	C6H7NO3S	Molecular Weight	173.19
H.S.Code	2921.42340	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	> 300 °C	Density [g/cm ³]	1.485	Solubility in water [% weight]	1 g/100 ml in water @ 200C

Packaging

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Specification

Appearance	White crystalline powder
Assay (alkalimetric)	99.0-102.0%
Chloride (Cl)	Max 0.002%
Insoluble in Sodium carbonate solution	Max 0.02%
Nitrite (NO ₂)	Max 0.00005%
Sulphate (SO ₄)	Max 0.01%
Residue on ignition	Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

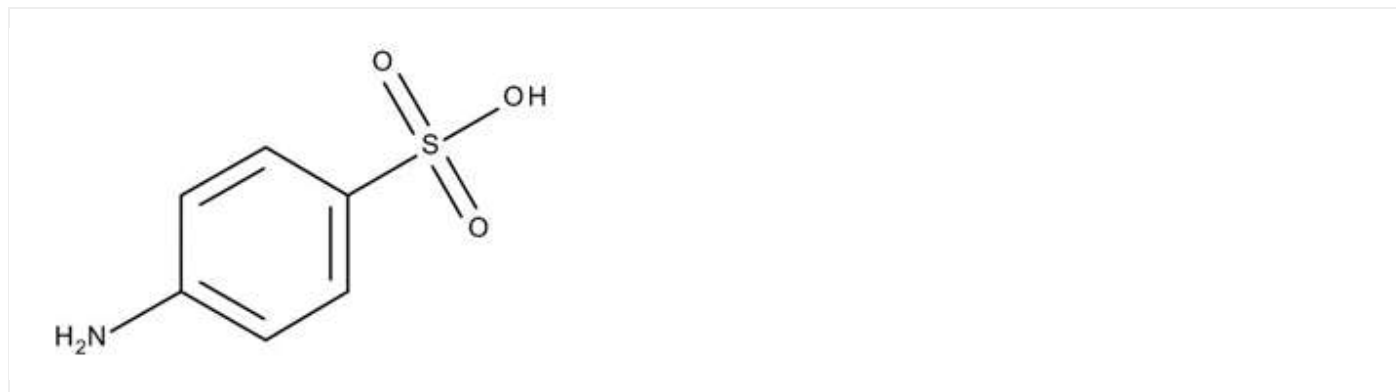
Hazardous Statement: H315-H317-H319

Precaution Statement: P280-P305 + P351 + P338

SULPHANILIC ACID 99% EXTRAPURE

4-Aminobenzenesulphonic acid

Product Code.	02591	Grade	Extrapure
Purity	99%	CAS No.	121-57-3
Molecular Formula	C6H7NO3S	Molecular Weight	173.19
H.S.Code	2921.42340	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	> 300 °C	Density [g/cm ³]	1.485	Solubility in water [% weight]	1 g/100 ml in water @ 200C

Specification

Appearance	White to off-white to beige to blue-grey powder
Assay (alkalimetric; on anhydrous basis)	Min 99%
Water (by KF)	Max 2.0%

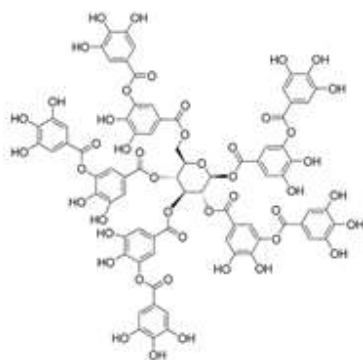
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H317-H319 Precaution Statement: P280-P305 + P351 + P338

TANNIC ACID AR

Confirming to BP specification Gallotannin, Tannin

Product Code.	02616	Grade	
Purity		CAS No.	1401-55-4
Molecular Formula	C76H52O46	Molecular Weight	1701.22
H.S.Code	3201.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light brown	Odour	Faint odour
Melting point/ Freezing point [°C]	218 °C	Decomposition point [°C]	200 °C	Auto-ignition temperature [°C]	527 °C
Flash point [°C]	199 °C	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	Light brown powder
Identity (IR)	Passes test
Identification	Passes test
Reaction of aqueous solution	Passes test
Dextrins, gum, salts, sugars	Passes test
Resinous substances	Passes test
Heavy metal (as Pb)	Max 0.003%

Zinc (Zn)	Max 0.005%
Arsenic (As)	Max 0.0003%
Loss on drying (at 105°C)	Max 12%
Residue on ignition	Max 0.5%

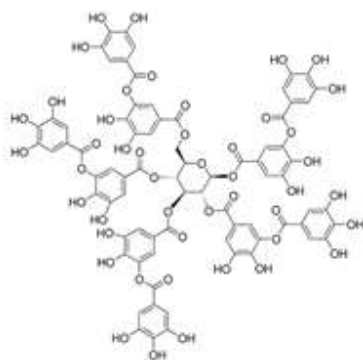
Safety Information and Hazard Symbols

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TANNIC ACID POWDER EXTRAPURE

Gallotannin, Tannin ; light powder

Product Code.	02615	Grade	
Purity		CAS No.	1401-55-4
Molecular Formula	C76H52O46	Molecular Weight	1701.22
H.S.Code	3201.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light brown	Odour	Faint odour
Melting point/ Freezing point [°C]	218 °C	Decomposition point [°C]	200 °C	Auto-ignition temperature [°C]	527 °C
Flash point [°C]	199 °C	Solubility in water [% weight]	Soluble in water		

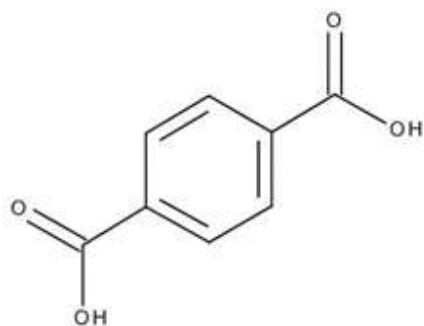
Specification

Appearance	Light brown powder
Heavy metal (as Pb)	Max 0.004%
Arsenic (As)	Max 0.0003%
Loss on drying (at 105°C)	Max 9%
Sulphated ash	Max 1.0%
Reaction of aqueous solution	Passes test
Dextrins, gum, salts, sugars	Passes test
Resinous substances	Passes test

TEREPHTHALIC ACID 98% EXTRAPURE

Benzene-1,4-dicarboxylic acid

Product Code.	02028	Grade	
Purity	98%	CAS No.	100-21-0
Molecular Formula	C ₈ H ₆ O ₄	Molecular Weight	166.13
H.S.Code	2917.36000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	> 300 °C	Auto-ignition temperature [°C]	496 °C	Flash point [°C]	260°C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Vapour density	5.74	Solubility in water [% weight]	Insoluble in water

Specification

Appearance	White crystalline powder
Assay (alkalimetric)	Min 98%

Safety Information and Hazard Symbols



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

TEREPHTHALIC ACID 99+%

Product Code.	2028A	Grade	
Purity	99+%	CAS No.	100-21-0
Molecular Formula	C8H6O4	Molecular Weight	166.13
H.S.Code	2917.36000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	> 300 °C	Auto-ignition temperature [°C]	496 °C	Flash point [°C]	260°C
Vapour pressure [20°C]	< 0.01 hPa at 20 °C	Vapour density	5.74	Solubility in water [% weight]	Insoluble in water


Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Crystalline powder
Infrared spectrum	Conforms
Titration with TBAH	>=99.0 %
Water	=<0.2 %
Sulfated ash	=<0.001 %

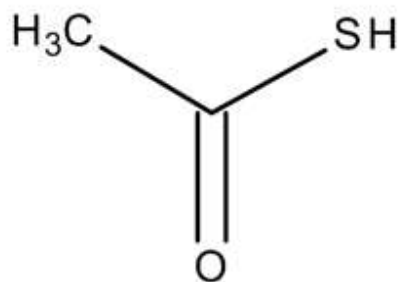
Safety Information and Hazard Symbols


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

THIOACETIC ACID 98% FOR SYNTHESIS

Thiacetic acid

Product Code.	02676	Grade	
Purity	98%	CAS No.	507-09-5
Molecular Formula	C2H4OS	Molecular Weight	76.12
H.S.Code	2930.90990	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Amber light	Odour	Obnoxious
Flammability (solid, gas)	Flammable	Flash point [°C]	-24°C	Boiling point [°C]	90°C
Vapour pressure [20°C]	24.5 mm of Hg (@ 20°C)	Vapour pressure mm/Hg	24.5 mm of Hg (@ 20°C)	Density [g/cm ³]	1.08
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	0.33		

Packaging

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Specification

Appearance	Colourless to yellowish clear liquid
Assay (GC area %)	Min 98%
Density (d _{20°C/4°C})	1.067 - 1.070
Identity (IR)	Conforms

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 2436

IMCO Class No.: 3

Packing Group: II

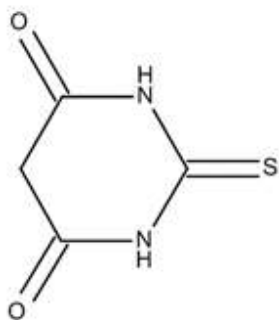
Hazardous Statement: H225-H301-H314

Precaution Statement: P210-P280-P301 + P310-P305 + P351 + P338-P310

THIOBARBITURIC ACID 99% AR

Reagent for Sorbic Acid. 4,6-Dihydroxy-2-mercaptopyrimidine; 4,6-Dihydroxypyrimidine-2-thiol; TBA

Product Code.	02677	Grade	AR
Purity	99%	CAS No.	504-17-6
Molecular Formula	C4H4N2O2S	Molecular Weight	144.15
H.S.Code	2933.52000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to cream	Odour	Unpleasant
pH value	1.7 - 1.9	Melting point/ Freezing point [°C]	245 °C	Flash point [°C]	93.3°C
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White to faint yellow to faint brown powder
Assay (alkalimetric; on anhydrous basis)	Min 99.0%
Suitability (as reagent for sorbic acid)	Passes test

Safety Information and Hazard Symbols

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По вопросам продаж и поддержки обращайтесь:

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