

Chemical Name CAS-Number	Colour/Form	Boiling Point (°C)	Melting Point (°C)	Molecular Weight	Solubility in Water	Relative Density (water=1)	Relative Vapour Density (air=1)	Vapour Pressure/ (Kpa)	Inflam. Limits	Flash Point (°C)	Auto Ignition Point (°C)
ACETIC ACID 64-19-7	rhombic crystals (<16.6 °C melting point); colourless liquid (16.6 °C melting point)	118	16.6	60.05	misc	1.0492	2.1	1.6	4 ll 16 ul	39 cc	426
ACETIC ANHYDRIDE 108-24-7	colourless, very mobile, strongly refractive liquid	139	-73	102.10	v sol	1.080 @ 15 °C	3.5	0.5	2.9 ll 10.3 ul	49 cc	316
ACETYLSALICYLIC ACID 50-78-2	monoclinic tablets or needle-like crystals		135	180.15	sl sol	1.40		2.52 x 10 ⁻⁵ mm Hg @ 25 °C			
ACRYLIC ACID 79-10-7	colourless liquid	141	14	72.06	misc	1.0511	2.5	0.413	2.9 ll 8 ul	54 oc	360
ADIPIC ACID 124-04-9	monoclinic prisms from ethyl acetate, water, or acetone and petroleum ether; fine white crystals or powder	337.5	152	146.14	sl sol	1.360 @ 25 °C/4 °C	5.04	0.010 @ 18.5 °C	10 ll 15 mg/l ul	196 cc	422
L-ASCORBIC ACID 50-81-7	crystals (usually plates, sometimes needles, monoclinic system); white to slightly yellow crystals or powder		190-192	176.12	v sol	1.65 @ 25 °C					
BENZOIC ACID 65-85-0	monoclinic tablets, plates, leaflets; white scales or needle crystals	249.2	122.4	122.13	0.29 g/100 ml @ 20 °C	1.2659 @ 15 °C/4 °C	4.21	0.133 @ 96 °C		121 cc	570
BUTYRIC ACID 107-92-6	oily liquid; colourless liquid	165.5	-7.9	88.10	misc	0.9577	3.0	0.43 mm Hg	2.0 ll 10.0 ul	72 cc	443
BUTYRYL CHLORIDE 141-75-3	colourless liquid	101-102	-89	106.55	slowly with decomposition	1.0263 @ 20.6 °C/4 °C				< 21	
n-CAPROIC ACID 142-62-1	oily liquid	205.8	-3.4	116.16	insol	0.929	4.01	0.024	1.3 ll 9.3 ul	102 oc	380
CHLORENDIC ACID 115-28-6	crystalline solid			388.84							
CHLOROACETIC ACID 79-11-8	monoclinic prisms; colourless or white crystals; colourless to light-brownish crystals	189	(alpha) 63 ; (beta) 55- 56 ; (gamma) 50	94.50	v sol	1.6	3.26	0.13 @ 43 °C	8.0 ll ? ul	126	>500
o-CHLOROBENZOIC ACID 118-91-2	monoclinic prisms from water	sublimes	142	156.6	sol	1.544		6.6x 10 ⁻⁴ mm Hg @ 25 °C			

<i>m</i> -CHLORO BENZOIC ACID 535-80-8	crystals; prisms from water	sublimes	158	156.6	v sol	1.496 @ 25 °C/4 °C		8.475x 10 ⁻⁵ mm Hg @ 25 °C			
<i>p</i> -CHLORO BENZOIC ACID 74-11-3	triclinic prisms from alcohol and ether; nearly white coarse powder		243	156.6	insol			1.85x 10 ⁻³ mm Hg @ 25 °C			
2-CHLOROPROPIONIC ACID 598-78-7	crystals	186	-12.1	108.53	misc	1.2585					
CITRIC ACID 77-92-9	crystals/monoclinic holohedra/crystallize from hot concentrated aq soln; colourless, translucent crystals or white, granular to fine crystalline powder/ rhombic crystals from water with 1 mol of water of crystallization	decomp	153	192.12	v sol	1.665			0.28 ll 2.29 ul		
CITRIC ACID HYDRATE 5949-29-1	crystals	decomp	100		sol	1.5			0.28 ll 2.29 ul		1010
CROTONIC ACID 3724-65-0	monoclinic needles or prisms (from water or petroleum ether); colourless needle-like crystals; white crystalline solid	185	71.5-71.7	86.09	v sol	1.018 @ 15 °C/4 °C; 0.964 @ 80 °C/4 °C	2.97	0.024		88	396
DICHLOROACETIC ACID 79-43-6	colourless liquid	194	9.7	128.94	misc	1.56	4.45	0.019			
2,4-DICHLOROPHENOXY-ACETIC ACID 94-75-7	white to yellow crystalline powder; yellow colour is phenolic impurities; colourless powder; white	160 @ 0.4 mm Hg	138	221.04	insol	1.6	7.6	0.053 @ 160 °C		88 oc	
2,4-DICHLOROPHENOXY-PROPIONIC ACID 120-36-5	colourless crystalline solid; white to tan, crystalline solid		117.5- 118.1	235.07		1.42					
ETHANEDIOIC ACID, DIHYDRATE 6153-56-6	colourless crystals	sublimes	102		10g/100 ml	1.7	3.1				
2-ETHYLHEXANOIC ACID 149-57-5	colourless liquid	228	- 59	144.2	sol	0.9031 @ 25 °C/4 °C	5.0	0.004	0.8 ll 6.0 ul	118 oc	310
FLUOROACETIC ACID 144-49-0	needles; colourless crystals	165	35.2	78.04	sol	1.3693 @ 36 °C		1.9 mm Hg @ 25 °C			
FORMIC ACID 64-18-6	colourless liquid	101	8.4	46.00	misc	1.22	1.6	4.4	14 ll 34 ul	69	480-520
FUMARIC ACID 110-17-8	needles, monoclinic prisms or leaflets from water; colourless crystals; white crystalline powder	165 sublimes @ 1.7 mm Hg	300-302	116.07	sl sol	1.635					

GALLIC ACID 149-91-7	prisms from water; needles from absolute methanol or chloroform		253	170.1	sl sol	1.694 @ 6 °C/4 °C						
GLYCOLIC ACID 79-14-1	colourless crystals; rhombic needles from water; leaves from ethanol	100	80	76.05	sol							
HEPTANOIC ACID 111-14-8	clear oily liquid	223.01	-7.5	130.2	sl sol	0.92						
ISOBUTYRIC ACID 79-31-2	colourless liquid	152-155	-47	88.1	v sol	0.950	3.0	1 mm Hg @ 14.7 °C				
ISOPHTHALIC ACID 121-91-5	needles	sublimes	347	166.13	sl sol							
LACTIC ACID 598-82-3	colourless liquid or colourless crystals		16.8-18	90.08	v sol						>74	
LAURIC ACID 143-07-7	colourless solid; white, crystalline powder	298.9	44.2	200.3	insol	0.883		1 mm Hg @ 121.0 °C				
MALEIC ACID 110-16-7	monoclinic prisms from water; white crystals from water, alcohol & benzene; colourless crystals	135	138-139	116.07	788 g/l @ 25 °C	1.590	4.0					
MALEIC ANHYDRIDE 108-31-6	orthorhombic needles from chloroform; commercial grades in fused form, as briquettes; colourless needles or white lumps or pellets; needles from chloroform or ether	202.0	52.8	98.06	sol	1.48	3.4	0.025 @ 25 °C	1.4 ll 7.1 ul	102	475	
MALONIC ACID 141-82-2	white crystals	decomp	132- 134	104.06	sol	1.63						
METHACRYLIC ACID 79-41-4	liquid or colourless crystals; colourless liquid	163	16	86.09	sol	1.0153	2.97	0.13 @ 25 °C			77 oc	
2-METHYL-4- CHLOROPHENOACETIC ACID 94-74-6	light brown solid; plates from benzene or toluene; white crystalline solid (pure compd); colourless crystalline solid (pure)		120	200.6	sl sol	1.56 @ 25 °C/15.5 ° C	6.9	0.0002 Pa				
METHACRYLIC ACID, 2- DIMETHYLAMINOETHYL 2867-47-2	liquid	62-65	-30	157.22	sol	0.933 @ 25 °C/5 °C	5.4				739 oc	
NONANOIC ACID 112-05-0	colourless, oily liquid at ordinary temp; crystallizes when cooled; yellowish oil	255	12.5	158.23	insol	0.9057						
OLEIC ACID 112-80-1	colourless or nearly colourless liquid (above 5- 7 °C); yellowish, oily liquid; water-white liquid	286 @ 100 mm Hg	16.3	282.45	insol	0.895 @ 25 °C						363

OXALIC ACID 144-62-7	anhyd oxalic acid, crystallized from glacial acetic acid is orthorhombic, crystals being pyramidal or elongated octahedra; transparent, colourless crystals or white powder	157	189.5	90.04	sol	1.900 @ 17 °C /4 °C					
PALMITIC ACID 57-10-3	white crystalline scales; needles from alcohol	351 @ 15 mm Hg	63-64	256.5	insol	0.853 @ 62 °C/4 °C		0.133 @ 154 °C			
PHTHALIC ACID 88-99-3	crystals; plates from water	decomp	210-211	166.13	sl sol	1.59	5.73			168 oc	
PHTHALIC ANHYDRIDE 85-44-9	white, lustrous needles; colourless or pale yellow solid flakes; colourless needles; monoclinic or rhombic prisms; white needles from alcohol and benzene	295	130.8	148.11	sl sol	1.527	5.1	0.27 Pa	1.7 ll 10.4. ul		570
PIVALIC ACID 75-98-9	coloured crystals	164	35.5	102.13	sl sol	0.905 @ 50 °C					
PROPIONIC ANHYDRIDE 123-62-6	colourless liquid	167	-45	130.2	decomposes	1.01	4.5	100	1.3 ll 9.5 ul	63	285
PROPIONIC ACID 79-09-4	colourless liquid; oily liquid	141	-20.8	74.09	misc	0.9930	2.56	0.386	2.9 ll 14.8 ul	544	955
SALICYLIC ACID 69-72-7	white, fine, needle-like crystals, or fluffy, white crystalline powder; needles in water; monoclinic prisms in alcohol	211	158	138.12	sl sol	1.443	4.8	0.114	1.1 ll ? ul	157	540
STEARIC ACID 57-11-4	monoclinic leaf from alcohol; white or slightly yellow, crystal masses or powder	360 @ 15 mm Hg	69	284.50	insol	0.9408	9.80	1 mm Hg @ 173.7 °C		196	395
SUCCINIC ACID 110-15-6	white minute monoclinic prisms; triclinic or monoclinic prisms	235	188	118.09	sl sol	1.572 @ 25 °C/4 °C					
SULPHANILIC ACID 121-57-3	rhombic plates or monoclinic crystals from water		288	173.2	sl sol	1.485 @ 25 °C/4 °C					
TARTARIC ACID 87-69-4			169	150.08							
TEREPHTHALIC ACID 100-21-0	needles; white crystals or powder	402		166.13	insol	1.51		< 0.001		260	496
<i>p</i> -tert BUTYLBENZOIC ACID 98-73-7	needles from dilute alcohol		164.5- 165.5	178.2	insol						

p-TOLUENESULPHONIC ACID 104-15-4	monoclinic leaflets or prisms; colourless crystals	140	106-107	172.2	v sol	1.24				184 cc	
TRICHLOROACETIC ACID 76-03-9	crystals; colourless; white solid	197.55	58	163.40	v sol	1.62 @ 25 C/4 °C		1 mm Hg @ 51.0 °C			
2,4,5-TRICHLORO-PHENOXYACETIC ACID 93-76-5	white solid; light tan solid	decomp	153	255.5	insol	1.80		< 0.01 mPa			
TRIFLUOROACETIC ACID 76-05-1	colourless, fuming liquid	73	-15.2	114.02	sol	1.5351 @ 25 °C					
TRIMELLITIC ANHYDRIDE 552-30-7	crystals; colourless solid	240-245	161- 163.5	192.13	reacts		6.6	<0.01 @ 25 °C	1 ll 7 ul		
VALERIC ACID 109-52-4	colourless liquid	186-187	-34.5	102.15	sol	0.939	3.5	0.020		96 oc	400