LABORATORY SOLVENTS AND OTHER LIQUID REAGENTS

This table summarizes the properties of 575 liquids that are commonly used in the laboratory as solvents or chemical reagents.

The properties tabulated are:

- M_r : Molecular weight
- t_m: Melting point in °C
- t_b : Normal boiling point in °C
- ρ : Density in g/mL at the temperature in °C indicated by the superscript
- η : Viscosity in mPa s (1 mPa s = 1 centipoise)
- ε : Dielectric constant at ambient temperature (15 to 30°C)
- μ: Dipole moment in D
- c_p: Specific heat capacity of the liquid at constant pressure at 25°C in J/g K
- vp: Vapor pressure at 25°C in kPa (1 kPa = 7.50 mmHg)
- FP: Flash point in °C
- Fl.Lim: Flammable (explosive) limit in air in percent by volume
- IT Autoignition temperature in °C
- TLV Threshold limit for allowable airborne concentration in parts per million by volume at 25°C and atmospheric pressure

Data on the temperature dependence of viscosity, dielectric constant, and vapor pressure can be found in the pertinent tables in this *Handbook*.

References

1. Lide, D. R., *Handbook of Organic Solvents,* CRC Press, Boca Raton, FL, 1994.
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3. Riddick, J. A., Bunger, W. B., and Sakano, T. K., *Organic Solvents, Fourth Edition*, John Wiley & Sons, New York, 1986.
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5. Urben, P. G., Ed., *Bretherick's Handbook of Reactive Chemical Hazards, 5th Edition*, Butterworth-Heinemann, Oxford, 1995.
6. *2004 TLV's and BEI's*, American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH 45240-1634, 2004.

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/ °C	Fl. lim.	IT/°C	TLV/ppm
Acetaldehyde	C_2H_4O	44.052	-123.37	20.1	0.7834^{18}		21.0	2.750	2.020	120	-39	4-60%	175	25
Acetic acid	$C_2H_4O_2$	60.052	16.64	117.9	1.0446^{25}	1.056	6.20	1.70	2.053	2.07	39	4-20%	463	10
Acetic anhydride	$C_4H_6O_3$	102.089	-74.1	139.5	1.082^{20}	0.843	22.45	≈ 2.8	1.648	0.680	49	2.7-10.3%	316	5
Acetone	C_3H_6O	58.079	-94.7	56.05	0.7845^{25}	0.306	21.01	2.88	2.175	30.8	-20	3-13%	465	500
Acetone cyanohydrin	C_4H_7NO	85.105	-19	95	0.932^{19}						74	2.2-12%	688	4.6
Acetonitrile	C_2H_3N	41.052	-43.82	81.65	0.7857^{20}	0.369	36.64	3.92	2.229	11.9	6	3-16%	524	20
Acetophenone	C_8H_8O	120.149	20.5	202	1.0281^{20}	1.681	17.44	3.02	1.703	0.049	77		570	10
Acetyl bromide	C_2H_3BrO	122.948	-96	76	1.6625^{16}					16.2				
Acetyl chloride	C_2H_3ClO	78.497	-112.8	50.7	1.1051^{20}	0.368	15.8	2.72	1.491	38.4	4		390	
Acrolein	C_3H_4O	56.063	-87.7	52.6	0.840^{20}			3.1		36.2	-26	2.8-31%	220	0.1
Acrylic acid	$C_3H_4O_2$	72.063	12.5	141	1.0511^{20}				2.022	0.53	50	2.4-8%	438	2
Acrylonitrile	C_3H_3N	53.063	-83.48	77.3	0.8007^{25}		33.0	3.87	2.05	14.1	0	3-17%	481	2
Allyl alcohol	C_3H_6O	58.079	-129	97.0	0.8540^{20}	1.218	19.7	1.60	2.392	3.14	21	3-18%	378	0.5
Allylamine	C_3H_7N	57.095	-88.2	53.3	0.758^{20}			1.2		33.1	-29	2-22%	374	
2-Amino-2-methyl-1-propanol	$C_4H_{11}NO$	89.136	25.5	165.5	0.934^{20}						67			
3-Amino-1-propanol	C_3H_9NO	75.109	12.4	187.5	0.9824^{26}						80			
Aniline	C_6H_7N	93.127	-6.02	184.17	1.0217^{20}	3.85	7.06	1.13	2.061	0.090	70	1.3-11%	615	2
Anisole	C_7H_8O	108.138	-37.13	153.7	0.9940^{20}	1.056	4.30	1.38	1.840	0.472	52		475	
Antimony(V) chloride	Cl_5Sb	299.024	4	140 dec	2.34		3.222							
Antimony(V) fluoride	F_5Sb	216.752	8.3	141	3.10									
Arsenic(III) chloride	$AsCl_3$	181.280	-16	130	2.150			1.59		5.38				
Benzaldehyde	C_7H_6O	106.122	-57.1	178.8	1.0401^{25}		17.85	3.0	1.621	0.169	63		192	
Benzene	C_6H_6	78.112	5.49	80.09	0.8765^{20}	0.604	2.2825	0	1.741	12.7	-11	1-8%	498	0.5
Benzeneacetonitrile	C_8H_7N	117.149	-23.8	233.5	1.0205^{15}		17.87	3.5		0.012	113			
Benzeneethanamine	$C_8H_{11}N$	121.180	<0	195	0.9640^{25}									
Benzeneethanol	$C_8H_{10}O$	122.164	-27	218.2	1.0202^{20}		12.31		2.068	0.01	96			
Benzenemethanethiol	C_7H_8S	124.204	-30	194.5	1.058^{20}		4.705							
Benzenesulfonyl chloride	$C_6H_5ClO_2S$	176.621	14.5	251 dec	1.3470^{15}		28.90			0.008				
Benzenethiol	C_6H_6S	110.177	-14.93	169.1	1.0775^{20}		4.26	1.23	1.572	0.26				0.1
Benzonitrile	C_7H_5N	103.122	-13.99	191.1	1.0093^{15}	1.267	25.9	4.18	1.602	0.11				
Benzoyl chloride	C_7H_5ClO	140.567	-0.4	197.2	1.2120^{20}		23.0			0.084	72			0.5
Benzyl acetate	$C_9H_{10}O_2$	150.174	-51.3	213	1.0550^{20}		5.34	1.22	0.989	0.022	90		460	10
Benzyl alcohol	C_7H_8O	108.138	-15.4	205.31	1.0419^{24}	5.47	11.916	1.71	2.015	0.015	93		436	
Benzylamine	C_7H_9N	107.153		185	0.9813^{20}	1.624	5.18			0.096				
2,2'-Bioxirane	$C_4H_6O_2$	86.090	2.0	144	1.113^{20}									

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/°C	Fl. lim.	IT/°C	TLV/ppm
Bis(2-aminoethyl)amine	$C_4H_{13}N_3$	103.166	-39	207	0.9569^{20}		12.62	1.9	2.462	0.03	98	2-7%	358	1
N,N'-Bis(2-aminoethyl)-1,2-ethanediamine	$C_6H_{18}N_4$	146.234	12	266.5			10.76							
Bis(2-chloroethyl) ether	$C_4H_8Cl_2O$	143.012	-51.9	178.5	1.22^{20}		21.20	2.6	1.545	0.143	55	3%-	369	5
Bis(chloromethyl) ether	$C_2H_4Cl_2O$	114.958	-41.5	106	1.323^{15}		3.51							0.001
Bis(2-ethylhexyl) phthalate	$C_{24}H_{38}O_4$	390.557	-55	384	0.981^{25}		5.3	2.84	1.804	0.00000005	218			0.3
Bis(2-hydroxyethyl) sulfide	$C_4H_{10}O_2S$	122.186	-10.2	282	1.1793^{25}		28.61			0.08	160		298	
Boron tribromide	BBr_3	250.523	-45	91	2.6			0						1
Boron trichloride	BCl_3	117.169	-107	12.65				0	0.911	156				
Bromine	Br_2	159.808	-7.2	58.8	3.1028	0.944	3.1484	0	0.474	28.2				0.1
Bromobenzene	C_6H_5Br	157.008	-30.72	156.06	1.4950^{20}	1.074	5.45	1.70	0.983	0.556	51		565	
1-Bromobutane	C_4H_9Br	137.018	-112.6	101.6	1.2758^{20}	0.606	7.315	2.08	0.798	5.26	18	2.6-6.6%	265	
2-Bromobutane, (±)-	C_4H_9Br	137.018	-112.65	91.3	1.2585^{20}		8.64	2.23		9.32	21			
Bromochloromethane	CH_2BrCl	129.384	-87.9	68.0	1.9344^{20}			1.7	0.41	19.5				200
Bromodichloromethane	$CHBrCl_2$	163.829	-57	90	1.980^{20}									
Bromoethane	C_2H_5Br	108.965	-118.6	38.5	1.4604^{20}	0.374	9.01	2.03	0.925	62.5		7-8%	511	5
Bromoethene	C_2H_3Br	106.949	-139.54	15.8	1.4933^{20}		5.63	1.42	1.007	141		9-15%	530	0.5
2-Bromo-2-methylpropane	C_4H_9Br	137.018	-16.2	73.3	1.4278^{20}		10.98	2.17	1.102	17.7				
1-Bromopentane	$C_5H_{11}Br$	151.045	-88.0	129.8	1.2182^{20}		6.31	2.20	0.875	1.68	32			
1-Bromopropane	C_3H_7Br	122.992	-110.3	71.1	1.3537^{20}	0.489	8.09	2.18	0.702	18.6			490	
2-Bromopropane	C_3H_7Br	122.992	-89.0	59.5	1.3140^{20}	0.458	9.46	2.21	1.075	28.9				
3-Bromopropene	C_3H_5Br	120.976	-119	70.1	1.398^{20}	0.471	7.0	≈ 1.9		18.6	-1	4.4-7.3%	295	
2-Bromotoluene	C_7H_7Br	171.035	-27.8	181.7	1.4232^{20}		4.641			0.17	79			
Bromotrichloromethane	$CBrCl_3$	198.274	-5.65	105	2.012^{25}		2.405			5.35				
Butanal	C_4H_8O	72.106	-96.86	74.8	0.8016^{20}		13.45	2.72	2.270	15.7	-22	2-12.5%	218	
1,3-Butanediol	$C_4H_{10}O_2$	90.121	-77	207.5	1.0053^{20}		28.8		2.521	0.008	121		395	
1,4-Butanediol	$C_4H_{10}O_2$	90.121	20.4	235	1.0171^{20}		31.9	2.58	2.220	0.002	121			
2,3-Butanediol	$C_4H_{10}O_2$	90.121	7.6	182.5	1.0033^{20}				2.363	0.02			402	
2,3-Butanedione	$C_4H_6O_2$	86.090	-1.2	88	0.9808^{18}		4.04			7.45	27			
Butanenitrile	C_4H_7N	69.106	-111.9	117.6	0.7936^{20}	0.553	24.83	3.9	2.301	2.55	24	>1.6%	501	
1-Butanethiol	$C_4H_{10}S$	90.187	-115.7	98.5	0.8416^{20}		5.204	1.53	1.898	6.07	2			0.5
2-Butanethiol	$C_4H_{10}S$	90.187	-165	85.0	0.8295^{20}		5.645			10.8	-23			
Butanoic acid	$C_4H_8O_2$	88.106	-5.1	163.75	0.9528^{25}	1.426	2.98	1.65	2.027	0.221	72	2-10%	443	
Butanoic anhydride	$C_8H_{14}O_3$	158.195	-75	200	0.9668^{20}		12.8		1.793	0.07	54	0.9-5.8%	279	
1-Butanol	$C_4H_{10}O$	74.121	-88.6	117.73	0.8095^{20}	2.54	17.84	1.66	2.391	0.86	37	1-11%	343	20
2-Butanol	$C_4H_{10}O$	74.121	-88.5	99.51	0.8063^{20}	3.10	17.26	1.8	2.656	2.32	24	2-10%	405	100
2-Butanone	C_4H_8O	72.106	-86.64	79.59	0.7999^{25}	0.405	18.56	2.78	2.201	12.6	-9	1-11%	404	200
trans-2-Butenal	C_4H_6O	70.090	-76	102.2	0.8516^{20}			3.67	1.361	4.92	13	2.1-15.5%	232	0.3
cis-2-Butenoic acid	$C_4H_6O_2$	86.090	15	169	1.0267^{20}					0.06				
2-Butoxyethanol	$C_6H_{14}O_2$	118.174	-74.8	168.4	0.9015^{20}		9.30	2.1	2.378	0.15	69	4-13%	238	20
Butyl acetate	$C_6H_{12}O_2$	116.158	-78	126.1	0.8825^{20}	0.685	5.07	1.9	1.961	1.66	22	2-8%	425	150
sec-Butyl acetate	$C_6H_{12}O_2$	116.158	-98.9	112	0.8748^{20}		5.135	1.87			31	1.7-9.8%		200
Butyl acrylate	$C_7H_{12}O_2$	128.169	-64.6	145	0.8898^{20}		5.25		1.958	0.731	29	1.7-9.9%	292	2
Butylamine	$C_4H_{11}N$	73.137	-49.1	77.00	0.7414^{20}	0.574	4.71	1.0	2.450	12.2	-12	2-10%	312	5
sec-Butylamine	$C_4H_{11}N$	73.137	<-72	62.73	0.7246^{20}			1.28			-9			
tert-Butylamine	$C_4H_{11}N$	73.137	-66.94	44.04	0.6958^{20}		58.5	1.3	2.627	48.4	-9	2-9%	380	
Butylbenzene	$C_{10}H_{14}$	134.218	-87.85	183.31	0.8601^{20}	0.950	2.359	≈ 0	1.813	0.150	71	0.8-5.8%	410	
tert-Butylbenzene	$C_{10}H_{14}$	134.218	-57.8	169.1	0.8665^{20}		2.359	≈ 0.83	1.773	0.280	60	0.7-5.7%	450	
Butyl benzoate	$C_{11}H_{14}O_2$	178.228	-22.4	250.3	1.000^{20}		5.52			0.005	107			
tert-Butyl ethyl ether	$C_6H_{14}O$	102.174	-94	72.6	0.736^{25}				2.13	16.5				5
tert-Butyl hydroperoxide	$C_4H_{10}O_2$	90.121	6	89 dec	0.8960^{20}						27			
1-*tert*-Butyl-4-methylbenzene	$C_{11}H_{16}$	148.245	-52	190	0.8612^{20}			≈ 0		0.09	68			1
Butyl vinyl ether	$C_6H_{12}O$	100.158	-92	94	0.7888^{20}			1.25	2.316	6.65	-9		255	
γ-Butyrolactone	$C_4H_6O_2$	86.090	-43.61	204	1.1296^{20}		39.0	4.27	1.642	0.43	98			
Carbon disulfide	CS_2	76.141	-112.1	46	1.2632^{20}	0.352	2.6320	0	1.003	48.2	-30	1-50%	90	10
Chloroacetaldehyde	C_2H_3ClO	78.497	-16.3	85.5	1.19									1
Chloroacetone	C_3H_5ClO	92.524	-44.5	119	1.15^{20}					2				1
Chloroacetyl chloride	$C_2H_2Cl_2O$	112.942	-22	106	1.4202^{20}			2.23		3.33				0.05
2-Chloroaniline	C_6H_6ClN	127.572	-1.9	208.8		3.32	13.40	1.77		0.034				
3-Chloroaniline	C_6H_6ClN	127.572	-10.28	230.5	1.2161^{20}		13.3		1.558	0.0156			705	
Chlorobenzene	C_6H_5Cl	112.557	-45.31	131.72	1.1058^{20}	0.753	5.6895	1.69	1.334	1.6	28	1-10%	593	10
2-Chloro-1,3-butadiene	C_4H_5Cl	88.536	-130	59.4	0.956^{20}		4.914			29.5	-20	4-20%		10
1-Chlorobutane	C_4H_9Cl	92.567	-123.1	78.4	0.8857^{20}	0.422	7.276	2.05	1.891	13.7	-12	2-10%	240	
2-Chlorobutane	C_4H_9Cl	92.567	-131.3	68.2	0.8732^{20}		8.564	2.04		21.0	-10			
Chlorocyclohexane	$C_6H_{11}Cl$	118.604	-43.81	142	1.000^{20}		7.9505	2.1		1.0	32			
Chlorodibromomethane	$CHBr_2Cl$	208.280	-20	120	2.451^{20}									
Chloroethane	C_2H_5Cl	64.514	-138.4	12.3	0.9239^{0}		9.45	2.05	1.617	160	-50	4-15%	519	100

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/°C	Fl. lim.	IT/°C	TLV/ppm
2-Chloroethanol	C_2H_5ClO	80.513	-67.5	128.6	1.2019^{20}		25.80	1.78		1.2	60	5-16%	425	1
2-Chloroethyl vinyl ether	C_4H_7ClO	106.551	-70	108	1.0495^{20}						27			
(Chloromethyl)benzene	C_7H_7Cl	126.584	-45	179	1.1004^{20}		6.854	1.8	1.44	0.164	67	1%-	585	1
Chloromethyl methyl ether	C_2H_5ClO	80.513	-103.5	59.5	1.063^{10}					24.9				
1-Chloro-2-methylpropane	C_4H_9Cl	92.567	-130.3	68.5	0.8773^{20}		7.027	2.00	1.713	19.9	-6	2-8.7%		
2-Chloro-2-methylpropane	C_4H_9Cl	92.567	-25.60	50.9	0.8420^{20}		9.663	2.13	1.867	42.7	0			
1-Chloronaphthalene	$C_{10}H_7Cl$	162.616	-2.5	259	1.1880^{25}		5.04	1.57	1.307	0.003	121		>558	
1-Chlorooctane	$C_8H_{17}Cl$	148.674	-57.8	183.5	0.8734^{20}		5.05	2.00	1.335	0.11	70			
1-Chloropentane	$C_5H_{11}Cl$	106.594	-99.0	108.4	0.8820^{20}		6.654	2.16		4.36	13	1.6-8.6%	260	
2-Chlorophenol	C_6H_5ClO	128.556	9.4	174.9	1.2634^{20}	3.59	7.40		1.468	0.308	64			
1-Chloropropane	C_3H_7Cl	78.541	-122.9	46.5	0.8899^{20}	0.334	8.588	2.05	1.683	45.8	<-18	2.6-11%	520	
2-Chloropropane	C_3H_7Cl	78.541	-117.18	35.7	0.8617^{20}	0.303		2.17		68.9	-32	2.8-11%	593	
3-Chloro-1,2-propanediol	$C_3H_7ClO_2$	110.540		213 dec	1.325^{18}		31.0							
3-Chloropropanenitrile	C_3H_4ClN	89.524	-51	175.5	1.1573^{20}						76			
2-Chloropropene	C_3H_5Cl	76.525	-137.4	22.6	0.9017^{20}		8.92	1.647		110	-37	4.5-16%		
3-Chloropropene	C_3H_5Cl	76.525	-134.5	45.1	0.9376^{20}	0.314	8.2	1.94	1.635	48.9	-32	2.9-11%	485	1
Chlorosulfonic acid	$ClHO_3S$	116.525	-80	152	1.75					0.42				
2-Chlorotoluene	C_7H_7Cl	126.584	-35.8	159.0	1.0825^{20}	0.964	4.721	1.56	1.318	0.482				50
4-Chlorotoluene	C_7H_7Cl	126.584	7.5	162.4	1.0697^{20}	0.837	6.25	2.21		0.4				
Chromyl chloride	Cl_2CrO_2	154.900	-96.5	117	1.91									0.025
trans-Cinnamaldehyde	C_9H_8O	132.159	-7.5	246	1.0497^{20}		17.72			0.005				
o-Cresol	C_7H_8O	108.138	31.03	191.04	1.0327^{35}		6.76	1.45	2.160	0.041	81	>1.4%	599	5
m-Cresol	C_7H_8O	108.138	12.24	202.27	1.0339^{20}	12.91	12.44	1.48	2.080	0.019	86	>1.1%	558	5
p-Cresol	C_7H_8O	108.138	34.77	201.98	1.0185^{40}		13.05	1.48	2.044	0.017	86	>1.1%	558	5
Cyanogen chloride	CClN	61.471	-6.5	13	1.186^{20}			2.8331						0.3
Cyclobutane	C_4H_8	56.107	-90.7	12.6	0.7038^{0}			0		157	<10	>1.8%		
Cyclohexane	C_6H_{12}	84.159	6.59	80.73	0.7739^{25}	0.894	2.0243	≈ 0	1.841	13.0	-20	1-8%	245	100
Cyclohexanol	$C_6H_{12}O$	100.158	25.93	160.84	0.9624^{20}	57.5	16.40		2.079	0.10	68	1-9%	300	50
Cyclohexanone	$C_6H_{10}O$	98.142	-27.9	155.43	0.9478^{20}	2.02	16.1	2.87	1.856	0.53	44	1-9%	420	20
Cyclohexene	C_6H_{10}	82.143	-103.5	82.98	0.8110^{20}	0.625	2.2176	0.33	1.805	11.8	-12	>1.2%	310	300
Cyclohexylamine	$C_6H_{13}N$	99.174	-17.8	134	0.8191^{20}	1.944	4.547	1.3		1.20	31	1-9%	293	10
1,3-Cyclopentadiene	C_5H_6	66.102	-85	41	0.8021^{20}			0.419		58.5				75
Cyclopentane	C_5H_{10}	70.133	-93.4	49.3	0.7457^{20}	0.413	1.9687	≈ 0	1.837	42.3	-25	2%-	361	600
Cyclopentanol	$C_5H_{10}O$	86.132	-17.5	140.42	0.9488^{20}		18.5		2.119	0.294	51			
Cyclopentanone	C_5H_8O	84.117	-51.90	130.57	0.9487^{20}		13.58	3.3	1.84	1.55	26			
cis-Decahydronaphthalene	$C_{10}H_{18}$	138.250	-42.9	195.8	0.8965^{20}	3.04	2.219	≈ 0	1.678	0.10				
trans-Decahydronaphthalene	$C_{10}H_{18}$	138.250	-30.4	187.3	0.8659^{25}	1.948	2.184	≈ 0	1.653	0.164	54	1-5%	255	
Decamethylcyclopenta-siloxane	$C_{10}H_{30}O_5Si_5$	370.770	-38	210	0.9593^{20}		2.50			0.02				
Decanal	$C_{10}H_{20}O$	156.265	-4.0	208.5	0.830^{15}					0.02				
Decane	$C_{10}H_{22}$	142.282	-29.6	174.15	0.7266^{25}	0.838	1.9853	≈ 0	2.210	0.170	51	0.8-5.4%	210	
Decanoic acid	$C_{10}H_{20}O_2$	172.265	31.4	268.7	0.8858^{40}				2.761					
1-Decanol	$C_{10}H_{22}O$	158.281	6.9	231.1	0.8297^{20}	10.91	7.93		2.341	0.009	82		288	
1-Decene	$C_{10}H_{20}$	140.266	-66.3	170.5	0.7408^{20}	0.756	2.136	≈ 0	2.144	0.210	<55		235	
Diacetone alcohol	$C_6H_{12}O_2$	116.158	-44	167.9	0.9387^{20}	2.80	18.2	3.2	1.905	0.224	58	2-7%	643	50
Dibenzyl ether	$C_{14}H_{14}O$	198.260	1.8	298	1.0428^{20}		3.821				135			
Dibromodifluoromethane	CBr_2F_2	209.816	-110.1	22.76				0.66		110				100
1,2-Dibromoethane	$C_2H_4Br_2$	187.861	9.84	131.6	2.1683^{25}	1.595	4.9612	1.2	0.724	1.55				
Dibromomethane	CH_2Br_2	173.835	-52.5	97	2.4969^{20}	0.980	7.77	1.43	0.61	6.12				
1,2-Dibromotetrafluoroethane	$C_2Br_2F_4$	259.823	-110.32	47.35	2.149^{25}		2.34		0.69	43.4				
Dibutylamine	$C_8H_{19}N$	129.244	-62	159.6	0.7670^{20}	0.918	2.765	1.0	2.266	0.34	47	1-6%		
Dibutyl ether	$C_8H_{18}O$	130.228	-95.2	140.28	0.7684^{20}	0.637	3.0830	1.17	2.136	0.898	25	1.5-7.6%	194	
Di-*tert*-butyl peroxide	$C_8H_{18}O_2$	146.228	-40	111	0.704^{20}					3.43	18			
Dibutyl phthalate	$C_{16}H_{22}O_4$	278.344	-35	340	1.0465^{20}	16.63	6.58	2.82	1.789		157	>0.5%	402	0.4
Dibutyl sebacate	$C_{18}H_{34}O_4$	314.461	-10	344.5	0.9405^{15}		4.54	2.48	1.968		178	>0.4%	365	
Dibutyl sulfide	$C_8H_{18}S$	146.294	-79.7	185	0.8386^{20}		4.29	1.61	1.943	0.09	76			
Dichloroacetic acid	$C_2H_2Cl_2O_2$	128.942	10	194	1.5634^{20}		8.33			0.03				
o-Dichlorobenzene	$C_6H_4Cl_2$	147.002	-17.0	180	1.3059^{20}	1.324	10.12	2.50	1.105	0.18	66	2-9%	648	25
m-Dichlorobenzene	$C_6H_4Cl_2$	147.002	-24.8	173	1.2884^{20}	1.044	5.02	1.72	1.163	0.252	72			
trans-1,4-Dichloro-2-butene	$C_4H_6Cl_2$	124.997	1.0	155.4	1.183^{25}									0.005
Dichlorodimethylsilane	$C_2H_6Cl_2Si$	129.061	-16	70.3	1.064^{25}					18.9	<21	3.4-9.5%		
1,1-Dichloroethane	$C_2H_4Cl_2$	98.959	-96.9	57.3	1.1757^{20}	0.464	10.10	2.06	1.276	30.5	-17	5-11%	458	100
1,2-Dichloroethane	$C_2H_4Cl_2$	98.959	-35.7	83.5	1.2454^{25}	0.779	10.42	1.8	1.298	10.6	13	6-16%	413	10
1,1-Dichloroethene	$C_2H_2Cl_2$	96.943	-122.56	31.6	1.213^{20}		4.60	1.34	1.148	80.0	-28	7-16%	570	5
cis-1,2-Dichloroethene	$C_2H_2Cl_2$	96.943	-80.0	60.1	1.2837^{20}	0.445	9.20	1.90	1.201	26.8	6	3-15%	460	200
trans-1,2-Dichloroethene	$C_2H_2Cl_2$	96.943	-49.8	48.7	1.2565^{20}	0.317	2.14	0	1.205	44.2	2	6-13%	460	200
Dichloromethane	CH_2Cl_2	84.933	-97.2	40	1.3266^{20}	0.413	8.93	1.60	1.192	58.2		13-23%	556	50

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/°C	Fl. lim.	IT/°C	TLV/ppm
(Dichloromethyl)benzene	$C_7H_6Cl_2$	161.029	-17	205	1.26^{25}		6.9	2.1		0.06				
1,1-Dichloropropane	$C_3H_6Cl_2$	112.986		88.1	1.1321^{20}					9.09				
1,2-Dichloropropane, (±)-	$C_3H_6Cl_2$	112.986	-100.53	96.4	1.1560^{20}		8.37	1.8	1.320	6.62	21	3-15%	557	75
1,3-Dichloropropane	$C_3H_6Cl_2$	112.986	-99.5	120.9	1.1785^{25}		10.27	2.08		2.44				
2,3-Dichloropropene	$C_3H_4Cl_2$	110.970	10	94	1.211^{20}						15	2.6-7.8%		
2,4-Dichlorotoluene	$C_7H_6Cl_2$	161.029	-13.5	201	1.2476^{20}		5.68	1.70		0.055				
Dicyclohexylamine	$C_{12}H_{23}N$	181.318	-0.1	256 dec	0.9123^{20}					0.003	>99			
Diethanolamine	$C_4H_{11}NO_2$	105.136	28	268.8	1.0966^{20}		25.75	2.8	2.22	<0.01	172	2-13%	662	0.5
1,1-Diethoxyethane	$C_6H_{14}O_2$	118.174	-100	102.25	0.8254^{20}		3.80	1.4	2.01	3.68	-21	2-10%	230	
1,2-Diethoxyethane	$C_6H_{14}O_2$	118.174	-74.0	121.2	0.8351^{25}		3.90		2.195	4.33	27		205	
Diethylamine	$C_4H_{11}N$	73.137	-49.8	55.5	0.7056^{20}	0.319	3.680	0.92	2.313	30.1	-23	2-10%	312	5
N,N-Diethylaniline	$C_{10}H_{15}N$	149.233	-38.8	216.3	0.9307^{20}		5.15			0.025	85		630	
o-Diethylbenzene	$C_{10}H_{14}$	134.218	-31.2	184	0.8800^{20}		2.594			0.13	57		395	
m-Diethylbenzene	$C_{10}H_{14}$	134.218	-83.9	181.1	0.8602^{20}		2.369			0.14	56		450	
p-Diethylbenzene	$C_{10}H_{14}$	134.218	-42.83	183.7	0.8620^{20}		2.259			0.13	55	0.7-6%	430	
Diethyl carbonate	$C_5H_{10}O_3$	118.131	-43	126	0.9692^{25}		2.820	1.10	1.80	1.63	25			
Diethylene glycol	$C_4H_{10}O_3$	106.120	-10.4	245.8	1.1197^{15}	30.2	31.82	2.3	2.307	0.001	124	2-17%	224	
Diethylene glycol diethyl ether	$C_8H_{18}O_3$	162.227	-45	188	0.9063^{20}		5.70		2.104	0.10	82			
Diethylene glycol dimethyl ether	$C_6H_{14}O_3$	134.173	-68	162	0.9434^{20}	0.989	7.23	2.0	2.043	0.315	67			
Diethylene glycol monobutyl ether	$C_8H_{18}O_3$	162.227	-68	231	0.9553^{20}				2.188	0.0032				
Diethylene glycol monoethyl ether	$C_6H_{14}O_3$	134.173		196	0.9885^{20}			1.6	2.243	0.017	96			
Diethylene glycol monoethyl ether acetate	$C_8H_{16}O_4$	176.211	-25	218.5	1.0096^{20}			1.8		0.029	110		425	
Diethylene glycol monomethyl ether	$C_5H_{12}O_3$	120.147		193	1.035^{20}			1.6	2.256	0.024	96	1-23%	240	
Diethyl ether	$C_4H_{10}O$	74.121	-116.2	34.5	0.7138^{20}	0.224	4.2666	1.15	2.369	71.7	-45	2-36%	180	400
Diethyl maleate	$C_8H_{12}O_4$	172.179	-8.8	223	1.0662^{20}		7.560			0.015	121		350	
Diethyl malonate	$C_7H_{12}O_4$	160.168	-50	200	1.0551^{20}		7.550	2.54	1.779	0.048	93			
Diethyl oxalate	$C_6H_{10}O_4$	146.141	-40.6	185.7	1.0785^{20}		8.266	2.49	1.784	0.030	76			
Diethyl phthalate	$C_{12}H_{14}O_4$	222.237	-40.5	295	1.232^{14}		7.86		1.647	0.002	161	>0.7%	457	0.6
Diethyl succinate	$C_8H_{14}O_4$	174.195	-21	217.7	1.0402^{20}		6.098			0.15	90			
Diethyl sulfate	$C_4H_{10}O_4S$	154.185	-24	208	1.172^{25}		29.2			0.05	104		436	
Diethyl sulfide	$C_4H_{10}S$	90.187	-103.91	92.1	0.8362^{20}	0.422	5.723	1.54	1.900	7.78				
Diiodomethane	CH_2I_2	267.836	6.1	182	3.3211^{20}		5.32	1.08	0.500	0.172				
Diiodosilane	H_2I_2Si	283.911	-1	150										
Diisobutylamine	$C_8H_{19}N$	129.244	-73.5	139.6		0.723				0.972	29			
Diisopentyl ether	$C_{10}H_{22}O$	158.281		172.5	0.7777^{20}		2.817	1.23	2.394	0.210				
Diisopropylamine	$C_6H_{15}N$	101.190	-61	83.9	0.7153^{20}	0.393		1.15		10.7	-1	1.1-7.1%	316	5
Diisopropyl ether	$C_6H_{14}O$	102.174	-85.4	68.4	0.7192^{25}	0.379	3.805	1.13	2.122	19.9	-28	1-8%	443	250
1,2-Dimethoxyethane	$C_4H_{10}O_2$	90.121	-69.20	84.5	0.8637^{25}	0.455	7.30		2.145	9.93	-2		202	
Dimethoxymethane	$C_3H_8O_2$	76.095	-105.1	42	0.8593^{20}		2.644	0.7	2.129	53.1	-32	2-14%	237	1000
Dimethylacetal	$C_4H_{10}O_2$	90.121	-113.2	64.5	0.8501^{20}					22.9				
N,N-Dimethylacetamide	C_4H_9NO	87.120	-18.59	165	0.9372^{25}	1.927	38.85	3.7	2.016	0.075	70	2-12%	490	10
2,3-Dimethylaniline	$C_8H_{11}N$	121.180	<-15	221.5	0.9931^{20}						97	>1%		
2,6-Dimethylaniline	$C_8H_{11}N$	121.180	11.2	215	0.9842^{20}			1.63	1.971	0.45	96			
N,N-Dimethylaniline	$C_8H_{11}N$	121.180	2.42	194.15	0.9557^{20}	1.300	4.90	1.68	1.771	0.107	63		371	5
2,2-Dimethylbutane	C_6H_{14}	86.175	-98.8	49.73	0.6444^{25}	0.351	1.869	≈ 0	2.227	42.5	-48	1.2-7%	405	500
2,3-Dimethylbutane	C_6H_{14}	86.175	-128.10	57.93	0.6616^{20}	0.361	1.889	≈ 0	2.201	31.3	-29	1.2-7%	405	500
3,3-Dimethyl-2-butanone	$C_6H_{12}O$	100.158	-52.5	106.1	0.7229^{25}		12.73			4.27				
Dimethylcarbamic chloride	C_3H_6ClNO	107.539	-33	167	1.168^{25}									
Dimethyl disulfide	$C_2H_6S_2$	94.199	-84.67	109.74	1.0625^{20}		9.6	1.8	1.551	3.82	24			
N,N-Dimethylethanolamine	$C_4H_{11}NO$	89.136	-59	134	0.8866^{20}					0.9				
N,N-Dimethylformamide	C_3H_7NO	73.094	-60.48	153	0.9445^{25}	0.794	38.25	3.82	2.060	0.439	58	2-15%	445	10
2,6-Dimethyl-4-heptanone	$C_9H_{18}O$	142.238	-41.5	169.4	0.8062^{20}		9.91	2.7	2.090	0.23	49	1-7%	396	25
1,1-Dimethylhydrazine	$C_2H_8N_2$	60.098	-57.20	63.9	0.791^{22}				2.731	20.9	-15	2-95%	249	0.01
Dimethyl phthalate	$C_{10}H_{10}O_4$	194.184	5.5	283.7	1.1905^{20}	14.36	8.66		1.561	0.001	146	>0.9%	490	0.6
2,6-Dimethylpyridine	C_7H_9N	107.153	-6.1	144.01	0.9226^{20}		7.33	1.7	1.728	0.746				
Dimethyl sulfate	$C_2H_6O_4S$	126.132	-31.7	188 dec	1.3322^{20}		55.0			0.13	83		188	0.1
Dimethyl sulfide	C_2H_6S	62.134	-98.24	37.33	0.8483^{20}	0.284	6.70	1.554	1.901	64.4	-37	2.2-20%	206	10
Dimethyl sulfoxide	C_2H_6OS	78.133	17.89	189	1.1010^{25}	1.987	47.24	3.96	1.958	0.084	95	3-42%	215	
1,4-Dioxane	$C_4H_8O_2$	88.106	11.85	101.5	1.0337^{20}	1.177	2.2189	0	1.726	4.95	12	2-22%	180	20
1,3-Dioxolane	$C_3H_6O_2$	74.079	-97.22	78	1.060^{20}			1.19	1.593	14.6	2			20
Dipentyl ether	$C_{10}H_{22}O$	158.281	-69	190	0.7833^{20}		2.798	1.20	1.579	0.13	57		170	
Dipropylamine	$C_6H_{15}N$	101.190	-63	109.3	0.7400^{20}	0.517	2.923	1.03	2.500	3.21	17		299	

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Dipropylene glycol monomethyl ether	$C_7H_{16}O_3$	148.200	-80	188.3	0.95									
Dipropyl ether	$C_6H_{14}O$	102.174	-114.8	90.08	0.7466^{20}	0.396	3.38	1.21	2.169	8.35	21	1.3-7%	188	
Dodecane	$C_{12}H_{26}$	170.334	-9.57	216.32	0.7495^{20}	1.383	2.0120	≈ 0	2.206	0.016	74	>0.6%	203	
1-Dodecanol	$C_{12}H_{26}O$	186.333	23.9	260	0.8309^{24}		5.82		2.351	0.000016	127		275	
1-Dodecene	$C_{12}H_{24}$	168.319	-35.2	213.8	0.7584^{20}	1.20	2.152	≈ 0	2.143	0.019	79			
Epichlorohydrin	C_3H_5ClO	92.524	-26	118	1.1812^{20}	1.073	22.6	1.8	1.422	2.2	31	4-21%	411	0.5
1,2-Epoxybutane	C_4H_8O	72.106	-150	63.4	0.8297^{20}			1.891	2.039	31.7	-22	1.7-19%	439	
1,2-Epoxy-4-(epoxyethyl)cyclohexane	$C_8H_{12}O_2$	140.180	<-55	227	1.0966^{20}									0.1
1,2-Ethanediamine	$C_2H_8N_2$	60.098	11.14	117	0.8979^{20}		13.82	1.99	2.872	1.62	40	3-12%	385	10
1,2-Ethanediol	$C_2H_6O_2$	62.068	-12.69	197.3	1.1135^{20}	16.06	41.4	2.28	2.394	0.01	111	3-22%	398	40
1,2-Ethanediol, diacetate	$C_6H_{10}O_4$	146.141	-31	190	1.1043^{20}		7.7	2.34	2.121	0.030	88	1.6-8.4%	482	
1,2-Ethanediol, dinitrate	$C_2H_4N_2O_6$	152.062	-22.3	198.5	1.4918^{20}		28.26			0.009				0.05
1,2-Ethanedithiol	$C_2H_6S_2$	94.199	-41.2	146.1	1.234^{20}		7.26	2.03						
Ethanethiol	C_2H_6S	62.134	-147.88	35.0	0.8315^{25}	0.287	6.667	1.60	1.898	70.3	-17	2.8-18%	300	0.5
Ethanol	C_2H_6O	46.068	-114.14	78.29	0.7893^{20}	1.074	25.3	1.69	2.438	7.87	13	3-19%	363	1000
Ethanolamine	C_2H_7NO	61.083	10.5	171	1.0180^{20}	21.1	31.94	2.3	3.201	0.05	86	3-24%	410	3
4-Ethoxyaniline	$C_8H_{11}NO$	137.179	4.6	254	1.0652^{16}		7.43			0.0007	116			
Ethoxybenzene	$C_8H_{10}O$	122.164	-29.43	169.81	0.9651^{20}	1.197	4.216	1.45	1.870	0.204	63			
2-Ethoxyethanol	$C_4H_{10}O_2$	90.121	-70	135	0.9253^{25}		13.38	2.1	2.339	0.71	43	3-18%	235	5
2-Ethoxyethyl acetate	$C_6H_{12}O_3$	132.157	-61.7	156.4	0.9740^{20}		7.567	2.2	2.845	0.24	56	2-8%	379	5
Ethyl acetate	$C_4H_8O_2$	88.106	-83.8	77.11	0.9003^{20}	0.423	6.0814	1.78	1.937	12.6	-4	2-12%	426	400
Ethyl acetoacetate	$C_6H_{10}O_3$	130.141	-45	180.8	1.0368^{10}		14.0		1.906	0.095	57	1-10%	295	
Ethyl acrylate	$C_5H_8O_2$	100.117	-71.2	99.4	0.9234^{20}		6.05	1.96		5.14	10	1.4-14%	372	5
Ethylamine	C_2H_7N	45.084	-80.5	16.5	0.689^{15}		8.7	1.22	2.884	141	-16	4-14%	385	5
N-Ethylaniline	$C_8H_{11}N$	121.180	-63.5	203.0	0.9625^{20}	2.05	5.87			0.039	85			
Ethylbenzene	C_8H_{10}	106.165	-94.96	136.19	0.8626^{25}	0.631	2.4463	0.59	1.726	1.28	21	1-7%	432	100
Ethyl benzoate	$C_9H_{10}O_2$	150.174	-34	212	1.0415^{25}		6.20	2.00	1.638	0.04	88		490	
Ethyl butanoate	$C_6H_{12}O_2$	116.158	-98	121.3	0.8735^{25}	0.639	5.18	1.74	1.963	2.01	24		463	
2-Ethyl-1-butanol	$C_6H_{14}O$	102.174	<-15	147	0.8326^{20}		6.19			0.206	57			
Ethyl chloroacetate	$C_4H_7ClO_2$	122.551	-21	144.3	1.1585^{20}					0.640	64			
Ethyl chloroformate	$C_3H_5ClO_2$	108.524	-80.6	95	1.1352^{20}		9.736				16		500	
Ethyl cyanoacetate	$C_5H_7NO_2$	113.116	-22.5	205	1.0654^{20}		31.62	2.17	1.947	0.003	110			
Ethyleneimine	C_2H_5N	43.068	-77.9	56	0.832^{25}		18.3	1.90		28.9	-11	3.3-55%	320	0.5
Ethyl formate	$C_3H_6O_2$	74.079	-79.6	54.4	0.9208^{20}	0.380	8.57	1.9	2.015	32.3	-20	3-16%	455	100
2-Ethylhexanal	$C_8H_{16}O$	128.212	<-100	163	0.8540^{20}						44	0.9-7.2%	190	
2-Ethyl-1,3-hexanediol	$C_8H_{18}O_2$	146.228	-40	244	0.9325^{22}		18.73				127		360	
2-Ethyl-1-hexanol	$C_8H_{18}O$	130.228	-70	184.6	0.8319^{25}	6.27	7.58	1.74	2.438	0.019	73	0.8-9.7%	231	
2-Ethylhexyl acetate	$C_{10}H_{20}O_2$	172.265	-80	199	0.8718^{20}			1.8		0.09	71	1-8%	268	
Ethyl lactate	$C_5H_{10}O_3$	118.131	-26	154.5	1.0328^{20}		15.4	2.4	2.150		46	>1.5%	400	
Ethyl 3-methylbutanoate	$C_7H_{14}O_2$	130.185	-99.3	135.0	0.8656^{20}		4.71			1.07				
Ethyl 2-methylpropanoate	$C_6H_{12}O_2$	116.158	-88.2	110.1	0.868^{20}					3.25	13			
Ethyl nitrite	$C_2H_5NO_2$	75.067		18	0.899^{15}					135	-35	4-50%	90	
Ethyl propanoate	$C_5H_{10}O_2$	102.132	-73.9	99.1	0.8843^{25}	0.501	5.76	1.74	1.920	4.97	12	1.9-11%	440	
Ethyl silicate	$C_8H_{20}O_4Si$	208.329	-82.5	168.8	0.9320^{20}		2.50		1.749	1.17	52			10
Eucalyptol	$C_{10}H_{18}O$	154.249	0.8	176.4	0.9267^{20}		4.57			0.260	48			
Fluorobenzene	C_6H_5F	96.102	-42.18	84.73	1.0225^{20}	0.550	5.465	1.60	1.523	10.4	-15			
Fluorosulfonic acid	FHO_3S	100.070	-89	163	1.726					0.08				
Formamide	CH_3NO	45.041	2.49	220	1.1334^{20}	3.34	111.0	3.73	2.389	0.01	154			10
Formic acid	CH_2O_2	46.026	8.3	101	1.220^{20}	1.607	51.1	1.425	2.151	5.75	50	18-57%	434	5
Furan	C_4H_4O	68.074	-85.61	31.5	0.9514^{20}	0.361	2.94	0.66	1.686	80.0	-36	2-14%		
Furfural	$C_5H_4O_2$	96.085	-38.1	161.7	1.1594^{20}	1.587	42.1	3.5	1.698	0.29	60	2-19%	316	2
Furfuryl alcohol	$C_5H_6O_2$	98.101	-14.6	171	1.1296^{20}		16.85	1.9	2.079	0.097	75	2-16%	491	10
Germanium(IV) chloride	Cl_4Ge	214.42	-51.50	86.55	1.88			0						
Glycerol	$C_3H_8O_3$	92.094	18.1	290	1.2613^{20}	934	46.53	2.6	2.377	<0.01	199	3-19%	370	2.7
Glycerol triacetate	$C_9H_{14}O_6$	218.203	-78	259	1.1583^{20}		7.11		1.763	<0.01	138	1%-	433	
Glycerol trioleate	$C_{57}H_{104}O_6$	885.432	-4		0.915^{15}		3.109							
Heptanal	$C_7H_{14}O$	114.185	-43.4	152.8	0.8132^{25}		9.07		2.015	0.46				
Heptane	C_7H_{16}	100.202	-90.55	98.4	0.6795^{25}	0.387	1.9209	≈ 0	2.242	6.09	-4	1-7%	204	400
Heptanoic acid	$C_7H_{14}O_2$	130.185	-7.17	222.2	0.9124^{25}	3.84	3.04		2.039	0.001			275	
1-Heptanol	$C_7H_{16}O$	116.201	-33.2	176.45	0.8219^{20}	5.81	11.75		2.342	0.0044				
2-Heptanone	$C_7H_{14}O$	114.185	-35	151.05	0.8111^{20}	0.714	11.95	2.6	2.037	0.49	39	1-8%	393	50
3-Heptanone	$C_7H_{14}O$	114.185	-39	147	0.8183^{20}		12.7	2.78		0.5	46			50
4-Heptanone	$C_7H_{14}O$	114.185	-33	144	0.8174^{20}		12.60			0.164	49			50
1-Heptene	C_7H_{14}	98.186	-118.9	93.64	0.6970^{20}	0.340	2.092	≈ 0	2.157	7.52	-1		260	
Hexachloro-1,3-butadiene	C_4Cl_6	260.761	-21	215	1.556^{25}		2.55			0.13			610	0.02

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/°C	Fl. lim.	IT/°C	TLV/ppm
Hexachloro-1,3-cyclopentadiene	C_5Cl_6	272.772	-9	239	1.7019^{25}									0.01
Hexafluorobenzene	C_6F_6	186.054	5.03	80.26	1.6184^{20}	2.79	2.029	0	1.191	11.3				
Hexamethyldisiloxane	$C_6H_{18}OSi_2$	162.377	-66	99	0.7638^{20}		2.179		1.918	5.57				
Hexamethylphosphoric triamide	$C_6H_{18}N_3OP$	179.200	7.2	232.5	1.03^{20}		31.3	5.5	1.791					
Hexanal	$C_6H_{12}O$	100.158	-56	131	0.8335^{20}				2.101	1.48	32			
Hexane	C_6H_{14}	86.175	-95.35	68.73	0.6606^{25}	0.300	1.8865	≈ 0	2.270	20.2	-22	1-8%	225	50
Hexanedinitrile	$C_6H_8N_2$	108.141	1	295	0.9676^{20}				1.190	<0.01	93	2-5%	550	2
Hexanoic acid	$C_6H_{12}O_2$	116.158	-3	205.2	0.9212^{25}		2.600	1.13	1.937	0.005	102		380	
1-Hexanol	$C_6H_{14}O$	102.174	-47.4	157.6	0.8136^{20}	4.58	13.03		2.353	0.11	63		290	
2-Hexanone	$C_6H_{12}O$	100.158	-55.5	127.6	0.8113^{20}	0.583	14.56	2.7	2.130	1.54	25	1-8%	423	5
1-Hexene	C_6H_{12}	84.159	-139.76	63.48	0.6685^{25}	0.252	2.077	≈ 0	2.178	24.8	-26	1.2-6.9%	253	50
Hexyl acetate	$C_8H_{16}O_2$	144.212	-80.9	171.5	0.8779^{15}		4.42		1.961	0.185	45			
Hydrazine	H_4N_2	32.045	1.4	113.55	1.0036	0.876	51.7	1.75	3.086	1.91	38	5-100%		0.01
Hydrazoic acid	HN_3	43.028	-80	35.7				1.70		68.2				0.11
Hydrogen cyanide	CHN	27.026	-13.29	26	0.6876^{20}	0.183	114.9	2.985	2.612	98.8	-18	6-40%	538	4.7
Hydrogen peroxide	H_2O_2	34.015	-0.43	150.2	1.44		74.6	1.573	2.619	0.26				1
3-Hydroxypropanenitrile	C_3H_5NO	71.078	-46	221	1.0404^{25}			3.2		0.010	129			
Indan	C_9H_{10}	118.175	-51.38	177.97	0.9639^{20}	1.357			1.609	0.2				
Indene	C_9H_8	116.160	-1.5	182	0.9960^{25}				1.609	0.220				10
Iodine bromide	BrI	206.808	40	116 dec	4.3			0.726						
Iodine chloride	ClI	162.357	27.39	100 dec	3.24			1.24		3.59				
Iodobenzene	C_6H_5I	204.008	-31.3	188.4	1.8308^{20}	1.554	4.59	1.70	0.778	0.133				
1-Iodobutane	C_4H_9I	184.018	-103	130.5	1.6154^{20}		6.27	1.93		1.85				
Iodoethane	C_2H_5I	155.965	-111.1	72.3	1.9357^{20}	0.556	7.82	1.976	0.738	18.2				
Iodomethane	CH_3I	141.939	-66.4	42.43	2.2789^{20}	0.469	6.97	1.62	0.888	53.9				2
1-Iodopropane	C_3H_7I	169.992	-101.3	102.5	1.7489^{20}	0.703	7.07	2.04	0.746	5.75				
2-Iodopropane	C_3H_7I	169.992	-90	89.5	1.7042^{20}	0.653	8.19	1.95	0.535	9.36				
Iron pentacarbonyl	C_5FeO_5	195.896	-20	103	1.5^{20}		2.602		1.228	4				0.1
Isobutanal	C_4H_8O	72.106	-65.9	64.5	0.7891^{20}			2.75		23.0	-18	1.6-10.6%	196	
Isobutyl acetate	$C_6H_{12}O_2$	116.158	-98.8	116.5	0.8712^{20}	0.676	5.068	1.9	2.013	2.39	18	1-11%	421	150
Isobutyl acrylate	$C_7H_{12}O_2$	128.169	-61	132	0.8896^{20}						30		427	
Isobutylamine	$C_4H_{11}N$	73.137	-86.7	67.75	0.724^{25}	0.571	4.43	1.3	2.505	19.0	-9	2-12%	378	
Isobutylbenzene	$C_{10}H_{14}$	134.218	-51.4	172.79	0.8532^{20}		2.318	≈ 0	1.793	0.257	55	0.8-6%	427	
Isobutyl formate	$C_5H_{10}O_2$	102.132	-95.8	98.2	0.8776^{20}		6.41	1.88		5.34	5	2-9%	320	
Isobutyl isobutanoate	$C_8H_{16}O_2$	144.212	-80.7	148.6	0.8542^{20}			1.9		0.552	38	1-8%	432	
Isopentane	C_5H_{12}	72.149	-159.77	27.88	0.6201^{20}	0.214	1.845	0.13	2.284	91.7	-51	1.4-7.6%	420	600
Isopentyl acetate	$C_7H_{14}O_2$	130.185	-78.5	142.5	0.876^{15}		4.72	1.9	1.909	0.728	25	1-8%	360	50
Isophorone	$C_9H_{14}O$	138.206	-8.1	215.2	0.9255^{20}	2.33			1.834	0.06	84	1-4%	460	5
Isopropenyl acetate	$C_5H_8O_2$	100.117	-92.9	94	0.9090^{20}					6.02	26		432	
Isopropenylbenzene	C_9H_{10}	118.175	-23.2	165.4	0.9106^{20}		2.28		1.711	0.40	54	1.9-6.1%	574	50
Isopropyl acetate	$C_5H_{10}O_2$	102.132	-73.4	88.6	0.8718^{20}				1.952	7.88	2	2-8%	460	100
Isopropylamine	C_3H_9N	59.110	-95.13	31.76	0.6891^{20}	0.325	5.6268	1.19	2.771	78.0	-37		402	5
Isopropylbenzene	C_9H_{12}	120.191	-96.02	152.41	0.8640^{25}	0.737	2.381	0.79	1.753	0.61	36	1-7%	424	50
Isopropylbenzene hydroperoxide	$C_9H_{12}O_2$	152.190		153	1.03^{20}					0.004				
1-Isopropyl-2-methylbenzene	$C_{10}H_{14}$	134.218	-71.5	178.1	0.8766^{20}					0.2				
1-Isopropyl-3-methylbenzene	$C_{10}H_{14}$	134.218	-63.7	175.1	0.8610^{20}					0.22				
1-Isopropyl-4-methylbenzene	$C_{10}H_{14}$	134.218	-67.94	177.1	0.8573^{20}		2.2322	≈0	1.761	0.19	47	1-6%	436	
Isoquinoline	C_9H_7N	129.159	26.47	243.22	1.0910^{30}		11.0	2.73	1.519	0.007				
d-Limonene	$C_{10}H_{16}$	136.234	-74.0	178	0.8411^{20}	1.47	2.3746		1.828	0.277	45	0.7-6.1%	237	
l-Limonene	$C_{10}H_{16}$	136.234		178	0.843^{20}		2.3738			0.254				
Mesityl oxide	$C_6H_{10}O$	98.142	-59	130	0.8653^{20}	0.602	15.6	2.8	2.165	1.47	31	1-7%	344	15
Methacrylic acid	$C_4H_6O_2$	86.090	16	162.5	1.0153^{20}			1.65	1.871	0.12	77	1.6-8.8%	68	20
Methanol	CH_4O	32.042	-97.53	64.6	0.7914^{20}	0.544	33.0	1.70	2.531	16.9	11	6-36%	464	200
2-Methoxyaniline	C_7H_9NO	123.152	6.2	224	1.0923^{20}		5.230			0.013	118			0.1
4-Methoxybenzaldehyde	$C_8H_8O_2$	136.149	0	248	1.119^{15}		22.0			0.004				
2-Methoxyethanol	$C_3H_8O_2$	76.095	-85.1	124.1	0.9647^{20}		17.2	2.36	2.249	1.31	39	2-14%	285	5
2-Methoxyethyl acetate	$C_5H_{10}O_3$	118.131	-70	143	1.0074^{19}		8.25	2.1	2.624	0.67	49	2-12%	392	5
Methyl acetate	$C_3H_6O_2$	74.079	-98.25	56.87	0.9342^{20}	0.364	7.07	1.72	1.916	28.8	-10	3-16%	454	200
Methyl acrylate	$C_4H_6O_2$	86.090	<-75	80.7	0.9535^{20}		7.03	1.77	1.845	11.0	-3	2.8-25%	468	2
2-Methylacrylonitrile	C_4H_5N	67.090	-35.8	90.3	0.8001^{20}			3.69	1.883	8.26	1	2-6.8%		1
2-Methylaniline	C_7H_9N	107.153	-14.41	200.3	0.9984^{20}	3.82	6.138	1.6	1.96	0.043	85		482	2
3-Methylaniline	C_7H_9N	107.153	-31.3	203.3	0.9889^{20}	3.31	5.816	1.45	2.118	0.036				2
N-Methylaniline	C_7H_9N	107.153	-57	196.2	0.9891^{20}	2.04	5.96		1.933	0.05				0.5
Methyl benzoate	$C_8H_8O_2$	136.149	-12.4	199	1.0837^{25}	1.857	6.642	1.9	1.625	0.052	83			

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/°C	Fl. lim.	IT/°C	TLV/ppm
2-Methyl-1,3-butadiene	C_5H_8	68.118	-145.9	34.0	0.679^{20}		2.098	0.25	2.240	73.4	-54	1.5-8.9%	395	
Methyl butanoate	$C_5H_{10}O_2$	102.132	-85.8	102.8	0.8984^{20}	0.541	5.48		1.941	4.30	14			
3-Methylbutanoic acid	$C_5H_{10}O_2$	102.132	-29.3	176.5	0.931^{20}			0.63	1.930	0.067			416	
3-Methyl-1-butanol	$C_5H_{12}O$	88.148	-117.2	131.1	0.8104^{20}	3.69	15.63		2.382	0.315	43	1.2-9%	350	100
2-Methyl-2-butanol	$C_5H_{12}O$	88.148	-9.1	102.4	0.8096^{20}	3.55	5.78	1.82	2.803	2.19	19	1.2-9%	437	
3-Methyl-2-butanol, (±)-	$C_5H_{12}O$	88.148		112.9	0.8180^{20}		12.1			1.20	38			
3-Methyl-2-butanone	$C_5H_{10}O$	86.132	-93.1	94.33	0.8051^{20}		10.37		2.089	6.99				200
2-Methyl-1-butene	C_5H_{10}	70.133	-137.53	31.2	0.6504^{20}		2.180		2.241	81.4	-20			
2-Methyl-2-butene	C_5H_{10}	70.133	-133.72	38.56	0.6623^{20}	0.203	1.979		2.179	62.1	-20			
Methyl *tert*-butyl ether	$C_5H_{12}O$	88.148	-108.6	55.0	0.7353^{25}				2.127	33.6				50
Methyl chloroacetate	$C_3H_5ClO_2$	108.524	-32.1	129.5	1.236^{20}		12.0			1.0	57	7.5-18.5%		
Methylcyclohexane	C_7H_{14}	98.186	-126.6	100.93	0.7694^{20}	0.679	2.024	≈ 0	1.882	6.18	-4	1-7%	250	400
Methylcyclopentane	C_6H_{12}	84.159	-142.42	71.8	0.7486^{20}	0.479	1.9853	≈ 0	1.886	18.3	-29	1-8%	258	
N-Methylformamide	C_2H_5NO	59.067	-3.8	199.51	1.011^{19}	1.678	189.0	3.83	2.096	0.03				
Methyl formate	$C_2H_4O_2$	60.052	-99	31.7	0.9713^{20}	0.325	9.20	1.77	1.983	78.1	-19	5-23%	449	100
5-Methyl-2-hexanone	$C_7H_{14}O$	114.185		144	0.888^{20}		13.53			0.691	36	1-8%	191	50
Methylhydrazine	CH_6N_2	46.072	-52.36	87.5					2.928	6.61	-8	2.5-92%	194	0.01
Methyl isocyanate	C_2H_3NO	57.051	-45	39.5	0.9230^{27}		21.75	≈ 2.8		57.7	-7	5.3-26%	534	0.02
Methyl lactate, (±)-	$C_4H_8O_3$	104.105		144.8	1.0928^{20}					0.62	49	>2.2%	385	
Methyl methacrylate	$C_5H_8O_2$	100.117	-47.55	100.5	0.9377^{25}		6.32	1.67	1.910	5.10	10	1.7-8.2%		50
1-Methylnaphthalene	$C_{11}H_{10}$	142.197	-30.43	244.7	1.0202^{20}		2.915	≈ 0	1.578	0.009			529	
Methyloxirane	C_3H_6O	58.079	-111.9	35	0.859^{0}			2.01	2.073	71.7	-37	3.1-27.5%	449	2
2-Methylpentane	C_6H_{14}	86.175	-153.6	60.26	0.650^{25}	0.286	1.886	≈ 0	2.248	28.2	<-29	1-7%	264	500
3-Methylpentane	C_6H_{14}	86.175	-162.90	63.27	0.6598^{25}	0.306	1.886	≈ 0	2.213	25.3	-7	1.2-7%	278	500
2-Methyl-2,4-pentanediol	$C_6H_{14}O_2$	118.174	-50	197.1	0.923^{15}		23.4	2.9	2.843	<0.01	102	1-9%	306	25
2-Methyl-1-pentanol	$C_6H_{14}O$	102.174		149	0.8263^{20}				2.427	0.236	54	1.1-9.65%	310	
4-Methyl-2-pentanol	$C_6H_{14}O$	102.174	-90	131.6	0.8075^{20}	4.07			2.672	0.698	41	1-6%		25
4-Methyl-2-pentanone	$C_6H_{12}O$	100.158	-84	116.5	0.7965^{25}	0.545	13.11		2.130	2.64	18	1-8%	448	50
2-Methylpropanenitrile	C_4H_7N	69.106	-71.5	103.9	0.7704^{20}		24.42	4.29			8		482	
2-Methyl-2-propanethiol	$C_4H_{10}S$	90.187	-0.5	64.2	0.7943^{25}		5.475	1.66		24.2	<-29			
Methyl propanoate	$C_4H_8O_2$	88.106	-87.5	79.8	0.9150^{20}	0.431	6.200		1.943	11.5	-2	2.5-13%	469	
2-Methylpropanoic acid	$C_4H_8O_2$	88.106	-46	154.45	0.9681^{20}	1.226	2.58	1.08	1.964	0.17	56	2-9.2%	481	
2-Methyl-1-propanol	$C_4H_{10}O$	74.121	-101.9	107.89	0.8018^{20}	3.33	17.93	1.64	2.449	1.39	28	2-11%	415	50
2-Methyl-2-propanol	$C_4H_{10}O$	74.121	25.69	82.4	0.7887^{20}	4.31	12.47	1.7	2.949	5.52	11	2-8%	478	100
2-Methylpyridine	C_6H_7N	93.127	-66.68	129.38	0.9443^{20}		10.18	1.85	1.703	1.5	39		538	
3-Methylpyridine	C_6H_7N	93.127	-18.14	144.14	0.9566^{20}		11.10	2.40	1.704	0.795				
4-Methylpyridine	C_6H_7N	93.127	3.67	145.36	0.9548^{20}		12.2	2.70	1.707	0.759	57			
N-Methyl-2-pyrrolidone	C_5H_9NO	99.131	-23.09	202	1.0230^{25}		32.55	4.1	3.105	0.04	96	1-10%	346	
Methyl salicylate	$C_8H_8O_3$	152.148	-8	222.9	1.181^{25}		8.80	2.47	1.637	0.015	96		454	
4-Methylstyrene	C_9H_{10}	118.175	-34.1	172.8	0.9173^{25}					0.245	53	0.8-11%	538	50
Morpholine	C_4H_9NO	87.120	-4.8	128	1.0005^{20}	2.02	7.42	1.55	1.892	1.34	37	1-11%	290	20
β-Myrcene	$C_{10}H_{16}$	136.234		167	0.8013^{15}		2.3			0.280				
Nickel carbonyl	C_4NiO_4	170.734	-19.3	43 (exp 60)	1.31^{25}				1.198					0.05
L-Nicotine	$C_{10}H_{14}N_2$	162.231	-79	247	1.0097^{20}		8.937							0.1
Nitric acid	HNO_3	63.013	-41.6	83	1.55			2.17	1.744	8.34				2
2-Nitroanisole	$C_7H_7NO_3$	153.136	10.5	272	1.2540^{20}		45.75	5.0		0.002				
Nitrobenzene	$C_6H_5NO_2$	123.110	5.7	210.8	1.2037^{20}	1.863	35.6	4.22	1.509	0.03	88	2-9%	482	1
Nitroethane	$C_2H_5NO_2$	75.067	-89.5	114.0	1.0448^{25}	0.688	29.11	3.23	1.790	2.79	28	3-17%	414	100
Nitromethane	CH_3NO_2	61.041	-28.38	101.19	1.1371^{20}	0.630	37.27	3.46	1.746	4.79	35	7-22%	418	20
1-Nitropropane	$C_3H_7NO_2$	89.094	-108	131.1	0.9961^{25}	0.798	24.70	3.66	1.97	1.36	36	2%-	421	25
2-Nitropropane	$C_3H_7NO_2$	89.094	-91.3	120.2	0.9821^{25}		26.74	3.73	1.911	2.3	24	3-11%	428	10
N-Nitrosodiethylamine	$C_4H_{10}N_2O$	102.134		176.9	0.9422^{20}									
N-Nitrosodimethylamine	$C_2H_6N_2O$	74.081		152	1.0048^{20}					0.73				
2-Nitrotoluene	$C_7H_7NO_2$	137.137	-10.4	222	1.1611^{19}		26.26		1.474	0.0014	106			2
3-Nitrotoluene	$C_7H_7NO_2$	137.137	15.5	232	1.1581^{20}		24.95		1.474	0.03	106			2
Nonane	C_9H_{20}	128.255	-53.46	150.82	0.7192^{20}	0.665	1.9722	≈ 0	2.217	0.570	31	0.8-2.9%	205	200
Nonanoic acid	$C_9H_{18}O_2$	158.238	12.4	254.5	0.9052^{20}	7.01	2.475	0.79	2.290	0.00005				
1-Nonanol	$C_9H_{20}O$	144.254	-5	213.37	0.8280^{20}	9.12	8.83		2.470	0.00050			260	
1-Nonene	C_9H_{18}	126.239	-81.3	146.9	0.7253^{25}	0.586	2.180	≈ 0	2.142	0.714	26			
4-Nonylphenol	$C_{15}H_{24}O$	220.351	42	≈ 295	0.950^{20}									
cis,cis-9,12-Octadecadienoic acid	$C_{18}H_{32}O_2$	280.446	-7		0.9022^{20}		2.754							
cis-9-Octadecenoic acid	$C_{18}H_{34}O_2$	282.462	13.4	360	0.8935^{20}		2.336	1.18	2.043	0.000001	189		363	
Octane	C_8H_{18}	114.229	-56.82	125.67	0.6986^{25}	0.508	1.948	≈0	2.229	1.86	13	1-7%	206	300
Octanoic acid	$C_8H_{16}O_2$	144.212	16.5	239	0.9073^{25}	5.02	2.85	1.15	2.066	0.0002				
1-Octanol	$C_8H_{18}O$	130.228	-14.8	195.16	0.8262^{25}	7.29	10.30	1.8	2.344	0.01	81		270	
2-Octanol	$C_8H_{18}O$	130.228	-31.6	179.3	0.8193^{20}	6.49	8.13	1.71	2.535		88		265	

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/°C	Fl. lim.	IT/°C	TLV/ppm
2-Octanone	$C_8H_{16}O$	128.212	-16	172.5	0.820^{20}		9.51	2.7	2.132	0.12	52			
1-Octene	C_8H_{16}	112.213	-101.7	121.29	0.7149^{20}	0.447	2.113	≈ 0	2.148	2.30	21		230	
Oxetane	C_3H_6O	58.079	-97	47.6	0.8930^{25}			1.94						
2-Oxetanone	$C_3H_4O_2$	72.063	-33.4	162	1.1460^{20}			4.18	1.694	0.3	74	>2.9%		0.5
Oxirane	C_2H_4O	44.052	-112.5	10.6	0.8821^{10}		12.42	1.89	1.998	175	-20	3-100%	429	1
Oxiranemethanol, (±)-	$C_3H_6O_2$	74.079	-45	167 dec	1.1143^{25}									2
Paraldehyde	$C_6H_{12}O_3$	132.157	12.6	124.3	0.9943^{20}	1.079		1.43		1.6	36	>1.3%	238	
Parathion	$C_{10}H_{14}NO_5PS$	291.261	6.1	375	1.2681^{20}									0.01
Pentachloroethane	C_2HCl_5	202.294	-28.78	162.0	1.6796^{20}	2.25	3.716	0.92	0.859	0.478				
cis-1,3-Pentadiene	C_5H_8	68.118	-140.8	44.1	0.6910^{20}		2.319	0.500		50.6				
trans-1,3-Pentadiene	C_5H_8	68.118	-87.4	42	0.6710^{25}			0.585		54.7				
Pentanal	$C_5H_{10}O$	86.132	-91.5	103	0.8095^{20}		10.00			4.58	12		222	50
Pentane	C_5H_{12}	72.149	-129.67	36.06	0.6262^{20}	0.224	1.8371	≈ 0	2.317	68.3	-40	2-8%	260	600
Pentanedial	$C_5H_8O_2$	100.117	-14	188 dec										0.05
1,5-Pentanediol	$C_5H_{12}O_2$	104.148	-18	239	0.9914^{20}		26.2	2.5	3.08	0.001	129		335	
2,4-Pentanedione	$C_5H_8O_2$	100.117	-23	138	0.9721^{25}		26.524	2.8	2.08	1.02	34		340	
1-Pentanethiol	$C_5H_{12}S$	104.214	-75.65	126.6	0.850^{20}		4.847			1.83	18			
Pentanoic acid	$C_5H_{10}O_2$	102.132	-33.6	186.1	0.9339^{25}		2.661	1.61	2.059	0.024	96		400	
1-Pentanol	$C_5H_{12}O$	88.148	-77.6	137.98	0.8144^{20}	3.62	15.13	1.7	2.361	0.259	33	1-10%	300	
2-Pentanol	$C_5H_{12}O$	88.148	-73	119.3	0.8094^{20}	3.47	13.71	1.66	2.716	0.804	34	1.2-9%	343	
3-Pentanol	$C_5H_{12}O$	88.148	-69	116.25	0.8203^{20}	4.15	13.35	1.64	2.719	1.10	41	1.2-9%	435	
2-Pentanone	$C_5H_{10}O$	86.132	-76.8	102.26	0.809^{20}	0.470	15.45	2.7	2.137	4.97	7	2-8%	452	200
3-Pentanone	$C_5H_{10}O$	86.132	-39	101.7	0.8098^{25}	0.444	17.00	2.82	2.216	4.72	13	>1.6%	450	200
1-Pentene	C_5H_{10}	70.133	-165.12	29.96	0.6405^{20}	0.195	2.011	≈ 0.5	2.196	85.0	-18	1.5-8.7%	275	
cis-2-Pentene	C_5H_{10}	70.133	-151.36	36.93	0.6556^{20}			≈ 0	2.163	66.0	<-20			
trans-2-Pentene	C_5H_{10}	70.133	-140.21	36.34	0.6431^{25}			≈ 0	2.239	67.4	<-20			
Pentyl acetate	$C_7H_{14}O_2$	130.185	-70.8	149.2	0.8756^{20}		4.79	1.75	2.005	0.60	16	1-8%	360	50
Pentylamine	$C_5H_{13}N$	87.164	-55	104.3	0.7544^{20}	0.702	4.27		2.501	4.00	-1	2.2-22%		
Perchloric acid	$ClHO_4$	100.459	-112	≈ 90 dec	1.77									
Peroxyacetic acid	$C_2H_4O_3$	76.051	-0.2	110	1.226^{15}					1.93	41			
Phenol	C_6H_6O	94.111	40.89	181.87	1.0545^{45}		12.40	1.224	2.123	0.055	79	1.8-8.6%	715	5
2-Phenoxyethanol	$C_8H_{10}O_2$	138.164	14	245	1.102^{22}					0.001	121			
Phenylhydrazine	$C_6H_8N_2$	108.141	20.6	243.5	1.0986^{20}	13.03	7.15		2.007	0.003	88			0.1
1-Phenyl-2-propylamine, (±)-	$C_9H_{13}N$	135.206		203	0.9306^{25}					0.06	<100			
Phosphinic acid	H_3O_2P	65.997	26.5	130	1.49									
Phosphoric acid	H_3O_4P	97.995	42.4	407					1.480					0.25
Phosphorothioc trichloride	Cl_3PS	169.398	-36.2	125	1.635		4.94							
Phosphorus(III) bromide	Br_3P	270.686	-41.5	173.2	2.8					0.38				
Phosphorus(III) chloride	Cl_3P	137.332	-93.6	76.1	1.574	0.529	3.498	0.56		16.1				0.2
Phosphoryl chloride	Cl_3OP	153.331	1.18	105.5	1.645		14.1	2.54	0.905	4.97				0.1
α-Pinene	$C_{10}H_{16}$	136.234	-64	156.2	0.8539^{25}		2.1787			0.64	33		255	
β-Pinene	$C_{10}H_{16}$	136.234	-61.5	166	0.860^{25}		2.4970			0.61	38		275	
Piperidine	$C_5H_{11}N$	85.148	-11.02	106.22	0.8606^{20}	1.573	4.33	1.2	2.113	4.28	16	1-10%		
Propanal	C_3H_6O	58.079	-80	48	0.8657^{25}	0.321	18.5	2.72	2.362	42.2	-30	2.6-17%	207	20
1,2-Propanediol	$C_3H_8O_2$	76.095	-60	187.6	1.0361^{20}	40.4	27.5	2.2	2.507	0.02	99	3-13%	371	
1,3-Propanediol	$C_3H_8O_2$	76.095	-27.7	214.4	1.0538^{20}		35.1	2.5		0.007			400	
Propanenitrile	C_3H_5N	55.079	-92.78	97.14	0.7818^{20}	0.294	29.7	4.05	2.166	6.14	2	3-14%	512	
Propanoic acid	$C_3H_6O_2$	74.079	-20.5	141.15	0.9882^{25}	1.030	3.44	1.75	2.063	0.553	52	2.9-12.1%	465	10
Propanoic anhydride	$C_6H_{10}O_3$	130.141	-45	170	1.0110^{20}		18.30		1.806	0.45	63	1.3-9.5%	285	
1-Propanol	C_3H_8O	60.095	-124.39	97.2	0.7997^{25}	1.945	20.8	1.55	2.395	2.76	23	2-14%	412	200
2-Propanol	C_3H_8O	60.095	-87.9	82.3	0.7809^{25}	2.04	20.18	1.56	2.604	6.02	12	2-13%	399	200
Propargyl alcohol	C_3H_4O	56.063	-51.8	113.6	0.9478^{20}		20.8	1.13			36			1
Propyl acetate	$C_5H_{10}O_2$	102.132	-93	101.54	0.8878^{20}	0.544	5.62	1.8	1.921	4.49	13	2-8%	450	200
Propylamine	C_3H_9N	59.110	-84.75	47.22	0.7173^{20}	0.376	5.08	1.17	2.776	42.1	-37	2-10%	318	
Propylbenzene	C_9H_{12}	120.191	-99.6	159.24	0.8593^{25}		2.370	≈ 0	1.786	0.45	30	1-6%	450	
Propyl butanoate	$C_7H_{14}O_2$	130.185	-95.2	143.0	0.8730^{20}		4.3			0.618	37			
Propylene carbonate	$C_4H_6O_3$	102.089	-48.8	242	1.2047^{20}		66.14	4.9	2.141	0.05	135			
Propyl formate	$C_4H_8O_2$	88.106	-92.9	80.9	0.9073^{20}	0.485	6.92	1.89	1.945	10.9	-3		455	
Propyl propanoate	$C_6H_{12}O_2$	116.158	-75.9	122.5	0.8809^{20}		5.249			1.88	79			
Pyridine	C_5H_5N	79.101	-41.70	115.23	0.9819^{20}	0.879	13.260	2.21	1.678	2.76	20	2-12%	482	1
Pyrrole	C_4H_5N	67.090	-23.39	129.79	0.9698^{20}	1.225	8.00	1.74	1.903	1.10	39			
Pyrrolidine	C_4H_9N	71.121	-57.79	86.56	0.8586^{20}	0.704	8.30	1.6	2.202	8.40	3			
2-Pyrrolidone	C_4H_7NO	85.105	25	251	1.120^{20}		28.18	3.5	1.99		129			
Quinoline	C_9H_7N	129.159	-14.78	237.16	1.0977^{15}	3.34	9.16	2.29	1.51	0.011			480	
Safrole	$C_{10}H_{10}O_2$	162.185	11.2	234.5	1.1000^{20}					0.01	100			
Salicylaldehyde	$C_7H_6O_2$	122.122	-7	197	1.1674^{20}		18.35	2.86	1.818	0.075	78			

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/°C	Fl. lim.	IT/°C	TLV/ppm
Selenium chloride	Cl_2Se_2	228.83	-85	130 dec	2.774									
Selenium oxychloride	Cl_2OSe	165.86	8.5	177	2.44		46.2			0.02				
Selenium oxyfluoride	F_2OSe	132.96	15	125	2.8					0.56				
Styrene	C_8H_8	104.150	-30.65	145	0.9016^{25}	0.695	2.4737	0.123	1.747	0.81	31	1-7%	490	20
Sulfolane	$C_4H_8O_2S$	120.171	27.6	287.3	1.2723^{18}		43.26	4.8	1.498	<0.01	177			
Sulfur chloride	Cl_2S_2	135.037	-77	137	1.69		4.79			1.27				1
Sulfur dichloride	Cl_2S	102.971	-122	59.6	1.62		2.915	0.36		17.9				
Sulfuric acid	H_2O_4S	98.080	10.31	337	1.8				1.416					0.05
Sulfuryl chloride	Cl_2O_2S	134.970	-51	69.4	1.680		9.1	1.81	0.993	18.7				
α-Terpinene	$C_{10}H_{16}$	136.234		174	0.8375^{19}		2.4526							
1,1,2,2-Tetrabromoethane	$C_2H_2Br_4$	345.653	0	243.5	2.9655^{20}		6.72	1.38	0.479	0.003			335	1
Tetrabromosilane	Br_4Si	347.702	5.39	154	2.8			0						
1,1,2,2-Tetrachloro-1,2-difluoroethane	$C_2Cl_4F_2$	203.830	24.8	92.8	1.5951^{50}		2.52		0.852	7.51				500
1,1,1,2-Tetrachloroethane	$C_2H_2Cl_4$	167.849	-70.2	130.2	1.5406^{20}	1.437			0.92	1.6	47	5-12%		
1,1,2,2-Tetrachloroethane	$C_2H_2Cl_4$	167.849	-42.4	145.2	1.5953^{20}		8.50	1.32	0.967	0.622	62	20-54%		1
Tetrachloroethene	C_2Cl_4	165.833	-22.3	121.3	1.6230^{20}	0.844	2.268	0	0.865	2.42	45			25
Tetrachloromethane	CCl_4	153.823	-22.62	76.8	1.5940^{20}	0.908	2.2379	0	0.850	15.2				5
Tetrachlorosilane	Cl_4Si	169.897	-68.74	57.65	1.5	99.4		0	0.855	31.3				
Tetradecane	$C_{14}H_{30}$	198.388	5.82	253.58	0.7596^{20}	2.13	2.0343	≈ 0		0.002	112	>0.5%	200	
Tetraethylene glycol	$C_8H_{18}O_5$	194.226	-6.2	328	1.1285^{15}		20.44		2.208	0.000001	182			
Tetrafluoroboric acid	BF_4H	87.813		130 dec	~1.8									
Tetrahydrofuran	C_4H_8O	72.106	-108.44	65	0.8833^{25}	0.456	7.52	1.75	1.720	21.6	-14	2-12%	321	200
Tetrahydrofurfuryl alcohol	$C_5H_{10}O_2$	102.132	<-80	178	1.0524^{20}		13.48	2.1	1.774	0.100	75	1.5-9.7%	282	
1,2,3,4-Tetrahydronaphthalene	$C_{10}H_{12}$	132.202	-35.7	207.6	0.9645^{25}	2.14	2.771	≈ 0	1.645	0.05	71	1-5%	385	
Tetrahydropyran	$C_5H_{10}O$	86.132	-49.1	88	0.8814^{20}		5.66	1.74	1.82	9.54	-20			
Tetrahydrothiophene	C_4H_8S	88.172	-96.2	121.1	0.9987^{20}	0.973		1.90		2.45				
Tetramethylsilane	$C_4H_{12}Si$	88.224	-99.06	26.6	0.648^{19}		1.921	0	2.313	94.2				
Tetramethylurea	$C_5H_{12}N_2O$	116.161	-0.6	176.5	0.9687^{20}		23.10	3.5		0.138	77			
Tetranitromethane	CN_4O_8	196.033	13.8	126.1	1.6380^{20}		2.317	0		1.13				0.005
Thionyl bromide	Br_2OS	207.873	-50	140			9.06			0.84				
Thionyl chloride	Cl_2OS	118.970	-101	75.6	1.631		8.675	1.45	1.017	16.0				1
Thiophene	C_4H_4S	84.140	-38.21	84.0	1.0649^{20}		2.739	0.55	1.471	10.6	-1			
Tin(IV) chloride	Cl_4Sn	260.521	-34.07	114.15	2.234			0	0.634					
Titanium(IV) chloride	Cl_4Ti	189.678	-24.12	136.45	1.73				0.766					
Toluene	C_7H_8	92.139	-94.95	110.63	0.8668^{20}	0.560	2.379	0.37	1.707	3.79	4	1-7%	480	50
Toluene-2,4-diisocyanate	$C_9H_6N_2O_2$	174.156	20.5	251	1.2244^{20}		8.433		1.653	0.003	127	0.9-9.5%		0.005
Tribromomethane	$CHBr_3$	252.731	8.69	149.1	2.8788^{25}	1.857	4.404	0.99	0.517	0.726	83			0.5
Tributylamine	$C_{12}H_{27}N$	185.349	-70	216.5	0.7770^{20}		2.340	0.8		0.01	63	1-5%		
Tributyl borate	$C_{12}H_{27}BO_3$	230.151	<-70	234	0.8567^{20}		2.23	0.77			93			
Tributyrin	$C_{15}H_{26}O_6$	302.363	-75	307.5	1.0350^{20}		5.72		1.837		180	>0.5%	407	
Trichloroacetaldehyde	C_2HCl_3O	147.387	-57.5	97.8	1.512^{20}		6.8		1.025	6.66				
1,2,4-Trichlorobenzene	$C_6H_3Cl_3$	181.447	16.92	213.5	1.459^{25}					0.057	105	2.5-6.6%	571	5
1,1,1-Trichloroethane	$C_2H_3Cl_3$	133.404	-30.01	74.09	1.3390^{20}	0.793	7.243	1.76	1.082	16.5	-1	8-13%	500	350
1,1,2-Trichloroethane	$C_2H_3Cl_3$	133.404	-36.3	113.8	1.4397^{20}		7.1937	1.4	1.131	3.1	32	6-28%	460	10
Trichloroethene	C_2HCl_3	131.388	-84.7	87.21	1.4642^{20}	0.545	3.390	0.8	0.947	9.91	32	8-11%	420	50
Trichloroethylsilane	$C_2H_5Cl_3Si$	163.506	-105.6	100.5	1.2373^{20}			2.04		6.29	22			
Trichlorofluoromethane	CCl_3F	137.368	-110.44	23.7	1.4879^{20}	0.421	3.00	0.46	0.885	106				1000
Trichloromethane	$CHCl_3$	119.378	-63.41	61.17	1.4788^{25}	0.537	4.8069	1.04	0.957	26.2				10
(Trichloromethyl)benzene	$C_7H_5Cl_3$	195.474	-4.42	221	1.3723^{20}		6.9	2.03		0.35	127		211	0.1
Trichloromethylsilane	CH_3Cl_3Si	149.480	-90	65.6	1.273^{20}			1.91	1.091	22.5	-9	7.6->20%	>404	
Trichloronitromethane	CCl_3NO_2	164.376	-64	112	1.6558^{20}		7.319			3.18				0.1
1,2,3-Trichloropropane	$C_3H_5Cl_3$	147.431	-14.7	157	1.3889^{20}		7.5		1.245	0.492	71	3.2-12.6%		10
Trichlorosilane	Cl_3HSi	135.452	-128.2	33	1.331	0.326		0.86			-50		104	
1,1,2-Trichloro-1,2,2-trifluoroethane	$C_2Cl_3F_3$	187.375	-36.22	47.7	1.5635^{25}	0.656	2.41		0.908	44.8				1000
Tri-*o*-cresyl phosphate	$C_{21}H_{21}O_4P$	368.363	11	410	1.1955^{20}		6.7	2.87	1.57	0.0000002	225		385	0.01
Tridecane	$C_{13}H_{28}$	184.361	-5.4	235.47	0.7564^{20}	1.724	2.0213	≈ 0	2.206	0.005	79			
1-Tridecene	$C_{13}H_{26}$	182.345	-13	232.8	0.7658^{20}	1.50	2.139	≈ 0	2.149	0.0047	79			
Triethanolamine	$C_6H_{15}NO_3$	149.188	20.5	335.4	1.1242^{20}	609	29.36	3.6	2.61	<0.01	179	1-10%		0.8
Triethylamine	$C_6H_{15}N$	101.190	-114.7	89	0.7275^{20}	0.347	2.418	0.66	2.173	7.70	-7	1-8%	249	1
Triethylene glycol	$C_6H_{14}O_4$	150.173	-7	285	1.1274^{15}		23.69		2.18	0.0002	177	1-9%	371	
Triethylene glycol dimethyl ether	$C_8H_{18}O_4$	178.227	-45	216	0.986^{20}		7.62				111			
Triethyl phosphate	$C_6H_{15}O_4P$	182.154	-56.4	215.5	1.0695^{20}		13.20	3.1			115		454	
Trifluoroacetic acid	$C_2HF_3O_2$	114.023	-15.2	73	1.5351^{25}	0.808	8.42	2.28		15.1				
(Trifluoromethyl)benzene	$C_7H_5F_3$	146.110	-28.95	102.1	1.1884^{20}		9.22	2.86	1.289	5.14	12			

Name	Mol. form.	M_r	t_m/°C	t_b/°C	ρ/g mL^{-1}	η/mPa s	ε	μ/D	c_p/J g^{-1}K^{-1}	vp/kPa	FP/ °C	Fl. lim.	IT/°C	TLV/ppm
1,2,3-Trimethylbenzene	C_9H_{12}	120.191	-25.4	176.12	0.8944^{20}		2.656	≈ 0	1.800	0.20	44	0.8-6.6%	470	25
1,2,4-Trimethylbenzene	C_9H_{12}	120.191	-43.77	169.38	0.8758^{20}		2.377	≈ 0	1.789	0.30	44	1-6%	500	25
1,3,5-Trimethylbenzene	C_9H_{12}	120.191	-44.72	164.74	0.8615^{25}		2.279	0	1.741	0.33	50	1-5%	559	25
Trimethyl borate	$C_3H_9BO_3$	103.912	-29.3	67.5	0.915^{25}		2.2762		1.828	17.2	-8			
Trimethylchlorosilane	C_3H_9ClSi	108.642	-40	60	0.856^{25}					30.7	-28		395	
2,2,4-Trimethylpentane	C_8H_{18}	114.229	-107.3	99.22	0.6878^{25}		1.943	≈ 0	2.093	6.50	-12		418	300
2,3,3-Trimethylpentane	C_8H_{18}	114.229	-100.9	114.8	0.7262^{20}		1.9780	≈ 0	2.150	3.60	<21		425	300
Trimethyl phosphate	$C_3H_9O_4P$	140.074	-46	197.2	1.2144^{20}		20.6	3.2		0.11	107			
2,4,6-Trimethylpyridine	$C_8H_{11}N$	121.180	-46	170.6	0.9166^{22}		7.807	2.05		4.1				
Trinitroglycerol	$C_3H_5N_3O_9$	227.087	13.5	exp 218	1.5931^{20}		19.25			0.00005			270	0.05
Undecane	$C_{11}H_{24}$	156.309	-25.5	195.9	0.7402^{20}	1.098	1.9972	≈ 0	2.207	0.05	69			
Vanadium(IV) chloride	Cl_4V	192.753	-25.7	148	1.816		3.05							
Vanadyl trichloride	Cl_3OV	173.299	-79	127	1.829		3.4							
Vinyl acetate	$C_4H_6O_2$	86.090	-93.2	72.8	0.9256^{25}			1.79	1.969	15.4	-8	2.6-13.4%	402	10
4-Vinylcyclohexene	C_8H_{12}	108.181	-108.9	128	0.8299^{20}					1.87	16		269	0.1
Water	H_2O	18.015	0.00	100.0	0.9970	0.890	80.100	1.8546	4.180	3.17				
o-Xylene	C_8H_{10}	106.165	-25.2	144.5	0.8802^{10}	0.760	2.562	0.64	1.753	0.88	32	1-7%	463	100
m-Xylene	C_8H_{10}	106.165	-47.8	139.12	0.8596^{25}	0.581	2.359	≈ 0	1.724	1.13	27	1-7%	527	100
p-Xylene	C_8H_{10}	106.165	13.25	138.37	0.8566^{25}	0.603	2.2735	0	1.710	1.19	27	1-7%	528	100
2,4-Xylenol	$C_8H_{10}O$	122.164	24.5	210.98	0.9650^{20}		5.060	1.4		0.022				