

Properties of Common Liquids and Gases

Properties of common liquids

Fluid	°C	°F	kg/m ³	lbs/ft ³	Viscosity Centipoise	Vapor press kPa (abs)	Vapor press psi (abs)
Acetic acid	20	68	1049	65.469	1.127	1.584	0.2297
Acetone	20	68	780	48.680	0.325	24.220	3.5128
Aniline	20	68	1022	63.784	4.565	0.400	0.0580
Benzene	20	68	879	54.859	0.654	10.100	1.4649
Bromine	20	68	3100	193.473	0.997	23.330	3.3837
Carbon disulphide	20	68	1293	80.697	0.366	14.000	2.0305
Carbon tetrachloride	20	68	1632	101.854	0.979	12.000	1.7405
Chloroform	20	68	1490	92.992	0.567	21.198	3.0745
Corn oil	20	68	922	57.543	71.400	0.000	0.0000
Ether diethyl	20	68	714	44.561	0.242	55.075	7.9880
Ethyl alcohol	20	68	789	49.242	1.190	7.900	1.1458
Gasoline (typical)	20	68	719	44.873	0.292	55.100	7.9916
Glycerol	20	68	1262	78.762	1495.000	0.000	0.0000
Linseed oil	20	68	925	57.730	43.500	0.000	0.0000
Mercury	20	68	13546	845.415	1.559	0.000	0.0000
Methyl alcohol	20	68	791	49.367	0.594	12.930	1.8753
Nitrobenzene	20	68	1175	73.333	2.052	0.020	0.0029
Olive oil	20	68	920	57.418	83.676	0.000	0.0000
Phenol	20	68	1073	66.967	12.740	0.029	0.0042
Sunflower oil	20	68	920	57.418	64.073	0.000	0.0000
Toluene	20	68	867	54.110	0.585	2.914	0.4226
Turpentine	20	68	870	54.297	1.490	0.250	0.0363
Water	0	32	1000	62.411	1.792	0.611	0.0886
Water	5	41	1000	62.411	1.518	0.873	0.1266
Water	10	50	1000	62.411	1.306	1.228	0.1781
Water	15	59	999	62.348	1.138	1.706	0.2474
Water	20	68	998	62.286	1.002	2.339	0.3392
Water	25	77	997	62.223	0.890	3.170	0.4598
Water	30	86	996	62.161	0.797	4.247	0.6160
Water	35	95	994	62.036	0.719	5.629	0.8164
Water	40	104	992	61.911	0.653	7.384	1.0710
Water	45	113	990	61.787	0.596	9.594	1.3915
Water	50	122	988	61.662	0.547	12.351	1.7914
Water	55	131	986	61.537	0.504	15.761	2.2859
Water	60	140	984	61.412	0.466	19.946	2.8929
Water	65	149	981	61.225	0.433	25.041	3.6319
Water	70	158	978	61.038	0.404	31.201	4.5253
Water	75	167	975	60.850	0.378	38.595	5.5977
Water	80	176	971	60.601	0.354	47.415	6.8770
Water	85	185	968	60.414	0.333	57.867	8.3929
Water	90	194	965	60.226	0.314	70.182	10.1790
Water	95	203	962	60.039	0.297	84.609	12.2715
Water	100	212	958	59.789	0.282	101.325	14.6960
Water sea	10	50	1030	64.283	1.346	1.300	0.1885
Water sea	20	68	1028	64.158	1.070	2.340	0.3394

Properties of some common gases (at atmospheric pressure)

Gas	°C	°F	kg/m ³	lbs/ft ³	Viscosity Centipoise
Air	0	32	1.293	0.081	0.017
Air	5	41	1.27	0.079	0.018
Air	10	50	1.247	0.078	0.018
Air	15	59	1.226	0.077	0.018
Air	20	68	1.205	0.075	0.018
Air	25	77	1.185	0.074	0.018
Air	30	86	1.165	0.073	0.019
Air	35	95	1.146	0.072	0.019
Air	40	104	1.128	0.070	0.019
Air	45	113	1.11	0.069	0.019
Air	50	122	1.093	0.068	0.020
Ammonia	20	68	0.708	0.044	0.010
Carbon dioxide	20	68	1.83	0.114	0.015
Carbon monoxide	20	68	1.164	0.073	0.018
Helium	20	68	0.166	0.010	0.020
Hydrogen	20	68	0.084	0.005	0.009
Methane	20	68	0.667	0.042	0.011
Nitrogen	20	68	1.165	0.073	0.018
Oxygen	20	68	1.33	0.083	0.020
Sulphur dioxide	20	68	2.659	0.166	0.013