

Approximate Physical Properties of Some Common Liquids (BG Units)

Liquid	Temperature (°F)	Density, ρ (slugs/ft ³)	Specific Weight, γ (lb/ft ³)	Dynamic Viscosity, μ (lb/ft ²)	Kinematic Viscosity, ν (ft ² /s)	Surface Tension, ^a σ (lb/ft)	Vapor Pressure, P _v [lb/in ² (abs)]	Bulk Modulus, ^b E _v (lb/in ²)
Carbon tetrachloride	68	3.09	99.5	2.00 E - 5	6.47 E - 6	1.84 E - 3	1.9 E + 0	1.91 E + 5
Ethyl alcohol	68	1.53	49.3	2.49 E - 5	1.63 E - 3	1.56 E - 3	8.5 E - 1	1.54 E + 5
Gasoline ^c	60	1.32	42.5	6.5 E - 6	4.9 E - 6	1.5 E - 3	8.0 E + 0	1.9 E + 5
Glycerin	68	2.44	78.6	3.13 E - 2	1.28 E - 2	4.34 E - 3	2.0 E - 6	6.56 E + 5
Mercury	68	26.3	847	3.28 E - 5	1.25 E - 6	3.19 E - 2	2.3 E - 5	4.14 E + 6
SAE 30 oil ^c	60	1.77	57.0	8.0 E - 3	4.5 E - 3	2.5 E - 3		2.2 E + 5
Seawater	60	1.99	64.0	2.51 E - 5	1.26 E - 5	5.03 E - 3	2.56 E - 1	3.39 E + 5
Water	60	1.94	62.4	2.34 E - 5	1.21 E - 5	5.03 E - 3	2.56 E - 1	3.12 E + 5

^aIn contact with air

^bIsoentropic bulk modulus calculated from speed of sound

^cTypical values. Properties of petroleum products vary.

Approximate Physical Properties of Some Common Liquids (SI Units)

Liquid	Temperature (°C)	Density, ρ (kg/m ³)	Specific Weight, γ (kN/m ³)	Dynamic Viscosity, μ (N x s/m ²)	Kinematic Viscosity, ν (m ² /s)	Surface Tension, ^a σ (N/m)	Vapor Pressure, P _v [N/m ² (abs)]	Bulk Modulus, ^b E _v (N/m ²)
Carbon tetrachloride	20	1,590	15.6	9.58 E - 4	6.03 E - 7	2.69 E - 2	1.3 E + 4	1.31 E + 9
Ethyl alcohol	20	789	7.74	1.19 E - 3	1.51 E - 6	2.28 E - 2	5.9 E + 3	1.06 E + 9
Gasoline ^c	15.6	680	6.67	3.1 E - 4	4.6 E - 7	2.2 E - 2	5.5 E + 4	1.3 E + 9
Glycerin	20	1,260	12.4	1.50 E + 0	1.19 E - 3	6.33 E - 2	1.4 E - 2	4.52 E + 9
Mercury	20	13,600	133	1.57 E - 3	1.15 E - 7	4.66 E - 1	1.6 E - 1	2.85 E + 10
SAE 30 oil ^c	15.6	912	8.95	3.8 E - 1	4.2 E - 4	3.6 E - 2		1.5 E + 9
Seawater	15.6	1,030	10.1	1.20 E - 3	1.17 E - 6	7.34 E - 2	1.77 E + 3	2.34 E + 9
Water	15.6	999	9.80	1.12 E - 3	1.12 E - 6	7.34 E - 2	1.77 E + 3	2.15 E + 9

^aIn contact with air

^bIsoentropic bulk modulus calculated from speed of sound

^cTypical values. Properties of petroleum products vary.