

LIQUID	SPECIFIC GRAVITY based on water @ 15.6 °C	TEMP °C	CENTISTOKES
Acetaldehyde CH ₃ CHO	0.788	16.1	0.305
	0.762	20	0.295
Acetic acid - 5% = Vinegar CH ₃ COOH	1.006		
10%	1.014	15	1.35
50%	1.061	15	2.27
80%	1.075	15	2.85
Con-glacial	1.055	15	1.34
Acetic acid anhydride (CH ₃ COCH ₃)	1.087	15	0.88
Acetone CH ₃ COCH	0.792	20	0.41
		25	
Alcohol allyl	0.855	20	1.6
		40	0.90 _{cp}
butyl-n	0.81	20	3.64
		70	1.17
ethyl (grain) C ₂ H ₅ OH	0.789	20	1.52
		37.8	1.2
methyl(wood) CH ₃ OH	0.79	15	0.74
		0	1.04
propyl	0.804	20	2.8
		50	1.4
Aluminum sulphate- 36% sol.	1.055	20	1.41
Ammonia	0.662	-17.8	0.3
Aniline	1.022	20	4.37
	1.035	10	6.4
Asphalt. Blended RC-O.MC-O.SC-O	1.0+	25	159-324
		37.8	60-108
RC-1. MC-1. SC-1	1.0+	37.8	518-1080
		50	159-324
RC-2. MC-2. SC-2	1.0+	50	518-1080
		60	215-430
RC-3. MC-3. SC-3	1.0+	50	1295-2805
		60	540-1080
RC-4. MC-4. SC-4	1.0+	60	1725-4315
		82.8	270-540
RC-5. MC-5. SC-5	1.0+	60	6040-18340
		82.8	647-1295
RS-1. MS-1. SS-1	1.0+	25	33-216
		37.8	19-75
Asphalt emulsions Fed#1	1.0+	25	215-1510
		37.8	75-367

Automotive crankcase oils			
SAE-5W	.88-94	-17.8	1295max
SAE 10W	.88-94	-17.8	1295-2590
SAE 20W	.88-94	-17.8	2590-10350
SAE 20	.88-94	98.9	5.7-9.6
SAE 30	.88-94	98.9	96-12.9
SAE 40	.88-94	98.9	12.9-16.8
SAE 50	.88-94	98.9	16.8-22.7
Automotive gear oils			
SAE 75W	.88-94	98.9	4.2min
SAE 80W	.88-94	98.9	7.0min
SAE 85W	.88-94	98.9	11.0min
SAE 90	.88-94	98.9	14-25
SAE 140	.88-94	98.9	25-43
SAE 150	.88-94	98.9	43min
Beer	1.01	20	1.8
Benzene(Benzol) C_6H_6	0.899	0	1
	0.885	20	0.744
Bone oil	0.918	54.4	47.5
Boric acid. Sat. H_3BO_3	1.014		
Bromine	2.9	20	0.34
Butane-n	0.584	-11	0.52
			0.35
Butyric acid n	0.959	20	1.61
		0	2.3cp
Calcium chloride			
5%	1.04	18.3	1.156
25%	15.6	15.6	4
Carbolic acid(phenol)	1.08	18.3	11.83
		90	1.26cp
Carbon tetrachloride			
CCI	1.594	20	0.612
		37.8	0.53
Carbon disulphide			
CS	1.293	0	0.33
		20	2.298
Castor oil	0.96	37.8	259-325
	0.95	54.4	98-130
China wood oil	0.943	20.6	308.5
		37.8	125.5
Chloroform	1.489	20	0.38
	1.413	60	0.35

Cocoanut oil	0.925	37.8 54.4	298-316 14.7-15.7
Cod oil	0.928	37.8 54.4	32.1 19.4
Corn oil	0.924	54.4 100	28.7 8.6
Corn starch solutions			
22 baume	1.18	21.1 37.8	32.1 27.5
24 Baume	1.2	21.1 37.8	129.8 95.2
25 Baume	1.21	21.1 37.8	303 173.2
Cotton seed oil	.88-.93	37.8 54.4	37.9 20.6
Cresote	1.04-1.10	15.6 54.4	
Crude oil			
48 ⁰ API	0.79 0.76	15.6 54.4	3.8 1.6
40 ⁰ API	0.825 0.805	15.6 54.4	9.7 3.5
35.6 API	0.847 0.824	15.6 54.4	17.8 4.9
32.6 API	0.862 0.84	15.6 54.4	23.2 7.1
Salt creek	0.843 0.82	15.6 54.4	77 6.1
Decane-n	0.73	17.8 37.8	2.36 1.001
Diethylene glycol	1.12	21.1	32
Diethyl ether	0.714	20	0.32
Diesel fuel oils			
2D	.82-.95	37.8 54.4	2-6 1.-3.97
3D	.82-.95	37.8 54.4	6-11.75 3.97-6.78
4D	.82-.95	37.8 54.4	29.8max 13.1max
5D	.82-.95	50 71.1	86.6max 35.2max

Ethyl bromide C ₂ H ₃ Br	1.45	20	0.27
Ethylene bromide	2.18	20	0.787
Ethylene chloride	1.246	20	0.668
Ethylene Glycol	1.125	21.1	17.8
Formic acid 10%	1.025	20	1.04
50%	1.12.1	20	1.2
80%	1.186	20	1.4
Conc	1.221	20	1.48
		25	1.57cp
Freon -11	1.49	21.1	0.21
-12	1.33	21.1	0.27
-21	1.37	21.1	1.45
Furfurol	1.159	20	1.45
		25	1.49cp
Fuel oils 1	.82-.95	21.1	2.39-4.28
		37.8	-2.69
2.....	.82-95	21.1	3.0-7.4
		37.8	2.11-4.28
3.....	.82-.95	21.1	2.69-5.84
		37.8	2.06-3.97
5A....	.82-.95	21.1	7.4-26.4
		37.8	4.91-13.7
5B....	.82-.95	21.1	26.4-
		37.8	13.6-67.1
6.....	.82-.95	50	97.4-660
		71.1	37.5-172
Gas oils	0.89	21.1	13.9
		37.8	7.4
Gasolines a	0.74	15.6	0.88
		37.8	0.71
b.....	0.72	15.6	0.88
		37.8	
c.....	0.68	15.6	0.46
		37.8	0.4

Glycerine 100%	1.26	20.3 37.8	648 176
50% water	1.13	20 60	5.29 1.85cp
Glucose	1.35-1.44	37.8 65.6	7.7M-22M 880-2420
Heptane-n	0.688	-17.8 37.8	0.928 0.511
Hexane-n	0.664	-17.8	0.683
Honey		37.8	73.6
Industrial Lubricants			
Turbine oils 685...		15.6	647
SSU at 100°F		93.3	14.5
420.....		15.6	367
SSU....		93.3	11
315....		15.6	259
SSU.....		93.3	8
215.....		15.6	151
SSU.....		93.3	7.3
150.....		15.6	99
SSU....		93.3	6
Machine Lubricants			
#8...	.88-94	37.8 54.4	23-24 13-18
#10....	.88-.94	37.8 54.4	34-72 18-25
#20....	.88-94	37.8 54.4	72-83 25-39
#30....	.88-94	37.8 54.4	75-119 39-55
Cutting oils #1....		37.8 54.4	30-40 17-23
#2.....		37.8 54.4	40-46 23-26
Ink. Printers	1.0-1.4	37.8 54.4	550-2200 238-660
Insulating oil		21.1 37.8	24.1max 11.75max

Kerosene	.78-.82	20	2.71
Jet Fuel (av)	0.82	-34.4	7.9
Lard	0.96	37.8 54.4	62.1 34.3
Lard oil	.91-.93	37.8 54.4	41-47.5 23.4-27.1
Linseed oil	.92-.94	37.8 54.4	30.5 18.94
Mercury	13.57	21.1 37.8	0.118 0.11
Methyl acetate	0.93	20 40	0.44 0.32cp
Methyl iodide	2.28	20 40	0.213 0.42cp
Menhadden oil	0.93	37.8 54.4	29.8 18.2
Milk	1.02-1.05	20	1.13
Molasses			
A, first	1.40-1.46	37.8 54.4	281-5070 151-1760
B, second....	1.43-1.48	37.8 54.4	1410-13.2m 660-3.3m
C, blackstrap....	1.46-1.49	37.8 54.4	2630-55m 1320-16.5m
Naphthalene	1.145	80 100	0.9 0.7 8cp
Neatsfoot oil	0.917	37.8 54.4	49.7 27.5
Nitrobenzene	1.203 1.205	20	1.67
Nonane-n	0.7218	-17.8 37.8	1.728 0.807
Octane-n	0.7069	-17.8 37.8	1.266 0.645
Olive oil	.91-.92	37.8 54.4	43.2 24.1
Palm oil	0.924	37.8 54.4	47.8 26.4
Peanut oil	0.92	37.8 54.4	42 23.4

Pentane-n	0.65	-17.8 26.7	0.508 0.342
Petrolatum	0.83	54.4 71.1	20.5 15
Petroleum ether	0.64	15.6	31(est)
Propionic acid	0.99	0 20	1.52cp 1.13
Propylene acid	0.99	0 20	1.52cp 1.13
Propylene glycol	1.038	21.1	52
Quenching oil (Typical)	.86-.89		100-120
Rapeseed Oil	0.92	37.8 54.4	54.1 31
Rosin Oil	0.98	37.8 54.4	324.7 129.9
Rosin (wood)	1.09 avg	37.8 93.3	216-11M 108-4400
Sesame seed oil	0.923	37.8 54.4	39.6 23
Sodium chloride 5% 25%	1.037 1.196 1.19	20 15.6	1.097 2.4
Sodium hydroxide (caustic soda) 20% 30% 40%	1.22 1.33 1.43	18.3 18.3 18.3	4 10
Soya Bean Oil	.924-.928	37.8 54.4	35.4 19.64
Sperm Oil	1.35-1.44	37.8 54.4	21-23 15.2
Sugar solutions Corn syrup 86.4 Brix 84.4 Brix 82.3 Brix 80.3 Brix 78.4 Brix	1.459 1.445 1.431 1.418 1.405	37.8 82.2 37.8 82.2 37.8 82.2 37.8 82.2 37.8 82.2	180Mcp 1750cp 48Mcp 800cp 17Mcp 380cp 6900cp 230cp 3200cp 160cp

Sugar solutions Sucrose			
60 Brix	1.29	21.1 37.8	49.7 18.7
64 Brix	1.31	21.1 37.8	95.2 31.6
68 Brix	1.338	21.1 37.8	216.4 59.5
72 Brix	1.36	21.1 37.8	595 138.6
74 Brix	1.376	21.1 37.8	1210 238
76 Brix	1.39	21.1 37.8	2200 440
Sulphuric Acid			
100%	1.839	20 60	14.6 7.2cp
95%	1.839	20	14.5
60%	1.5	20	4.4
20%	1.14		

Tar, Coke oven	1.12+	21.1 37.8	600-1760 141-308
Tar, Gas house	1.16-1.30	21.1 37.8	3300-66M 440-4400
Tar pine	1.06+	37.8 55.6	559 108.2
Tar, road - RT-2	1.07+	50 100	43.2-64.9 8.8-10.2
RT-4....	1.08+	50 100	86.6-154 11.6-14.3
RT-6	1.09+	50 100	216-440 16.8-26.2
RT-8	1.13+	50 100	660-1760 31.8-48.3
RT-10	1.14+	50 100	4.4M-13.2M 53.7-86.6
RT-12	1.15+	50 100	25M-75M 108-173
Toluene	0.866	20 60	0.68 0.38cp
Triethylene glycol	1.125	21.1	40
Turpentine	.86-.87	37.8 54.4	86.6-95.2 39.9-44.3
Varnish, spar	0.9	20 37.8	313 143
Water Distilled.. Fresh	1 1	20 15.6 54.4	1.0038 1.13 0.53
Sea	1.03		1.15
Whale oil	0.925	37.8 54.4	35-39.6 19.9-23.4
Xylene-o	0.87	20 40	0.93 0.623cp