

Kinematic Viscosity of Common Liquids

Liquid	SG at 60°F (unless noted)	Viscosity SSU	°F
Acetic Acid (100%)	1.05	31.2	68
Acetone (100%)	.79	29.6	68
Alcohol-Ethyl (100%)	.79	32.3	68
Animal Oils:			
Bone Oil	.92	220 65	130 212
Cod Oil	.93	150 95	100 130
Lard	.96	287 160	100 130
Lard Oil	.91 - .93	190 - 220 112 - 128	100 130
Menhadden Oil	.93	140 90	100 130
Neatsfoot Oil	.92	230 130	100 130
Sperm Oil	.88	110 78	100 130
Whale Oil	.93	163 - 184 97 - 112	100 130
Asphalts:			
Unblended or Virgin Asphalts	1.1 - 1.5	2500 - 12000 600 - 3600	250 300
RS-1, MS-1 or SS-1 Emulsified Primer or Binder	~1.0	155 - 1000 90 - 350	77 100
RC-0, MC-0 or SC-0 Cutbacks or Binders	~1.0	737 - 1500 280 - 500	77 100
RC-1, MC-1 or SC-1 Cutbacks or Binders	~1.0	2400 - 5000 737 - 1500	100 122
RC-2, MC-2 or SC-2 Cutbacks or Binders	~1.0	2400 - 5000 1000 - 2000	122 140

RC-3, MC-3 or SC-3 Cutbacks or Binders	~1.0	6000 - 13000	122
		2500 - 5000	140
RC-4, MC-4 or SC-4 Cutbacks or Binders	~1.0	8000 - 20000	140
		1250 - 2500	180
RC-5, MC-5 or SC-5 Cutbacks or Binders	~1.0	28000 - 85000	140
		3000 - 6000	180
Asphalt Emulsion Type I Federal Spec.	~1.0	1000 - 7000	77
		350 - 1700	100
Asphalt Emulsion Types II, V and VI Federal Spec.	~1.0	155 - 1000	77
		90 - 350	100
Automobile Crankcase Oils (Average Midcontinent Paraffin Base):			
SAE 10	.88 - .94	165 - 240	100
		90 - 120	130
SAE 20	.88 - .94	240 - 400	100
		120 - 185	130
SAE 30	.88 - .94	400 - 580	100
		185 - 255	130
SAE 40	.88 - .94	580 - 950	100
		255 - 580	130
SAE 50	.88 - .94	950 - 1600	100
		80 - 105	210
SAE 60	.88 - .94	1600 - 2300	100
		105 - 125	210
SAE 70	.88 - .94	2300 - 3100	100
		125 - 150	210
SAE 10W	.88 - .94	5000 - 10000	0
SAE 20W	.88 - .94	10000 - 40000	0
Automobile Transmission Lubricants:			
SAE 80	.88 - .94	100000 max	0
SAE 90	.88 - .94	800 - 1500	100
		300 - 500	130
SAE 140	.88 - .94	950 - 2300	130
		120 - 200	210
SAE 250	.88 - .94	Over 2300	130
		Over 200	210

Benzol	.88 @ 68F	30.3	68
Black Liquor (typical)	1.30	5.000 2.500	122 130
Carbon Tetrachloride	1.59 @ 68F	30.1	68
Caustic Soda Solutions:			
20% NaOH	1.22	39.4	65
30% NaOH	1.33	58.1	65
40% NaOH	1.43	110.1	65
Cornstarch Solutions:			
22 °B	1.18	150 130 600	70 100 70
24 °B	1.20	440 1400	100 70
25 °B	1.21	800	100
Corn Syrups	1.5	5000 - 500000 1500 - 60000	100 130
Crude Oils:			
Texas, Oklahoma	.81 - .92	40 - 783 34.2 - 210	60 100
Wyoming, Montana	.86 - .88	74 - 1215 45 - 320	60 100
California	.78 - .92	40 - 4840 34 - 700	60 100
Pennsylvania	.8 - .85	46 - 216 38 - 86	60 100
Diesel Engine Lubricating Oils (Based on Average Midcontinent Paraffin Base):			
Federal Specification #9110	.88 - .94	165 - 240 90 - 120	100 130
Federal Specification #9170	.88 - .94	300 - 410 140 - 180	100 130
Federal Specification #9250	.88 - .94	470 - 590 200 - 255	100 130
Federal Specification #9370	.88 - .94	800 - 1100	100

Federal Specification #9500	.88 - .94	320 - 430 490 - 600 92 - 105	130 130 210
Diesel Fuel Oils:			
#2D	.82 - .95	32.6 - 45.5 39	100 130
#3D	.82 - .95	45.5 - 65 39 - 48	100 130
#4D	.82 - .95	140 max 70 max	100 130
#5D	.82 - .95	400 max 165 max	122 160
Ethyl Acetate	.90 @ 68F	29.7	68
Formic Acid	1.22 @ 68F	29.7	68
Freon	1.37 - 1.49 @ 70F	29.3	70
Fuel Oils:			
#1	.82 - .95	34 - 40 32 - 35	70 100
#2	.82 - .95	36 - 50 33 - 40	70 100
#3	.82 - .95	35 - 45 32.8 - 39	100 130
#5A	.82 - .95	50 - 125 42 - 72	100 130
#5B	.82 - .95	125 - 400 72 - 310	100 130
#6	.82 - .95	450 - 3000 175 - 780	122 160
Navy Specification	.99 max	110 - 225 63 - 115	122 160
Navy II	1.0 max	1500 max 480 max	122 160
Gasoline	.68 - .74	30 29.9	60 100
Gasoline (Natural)	.68	29.6	68

Gas Oil	.89	73 50	70 100
Glucose	1.4	35000 - 100000 4 - 11000	100 150
Glycerine (100%)	1.26 @ 68F	2950 813	68.6 100
Glycols:			
Propylene	1.04	240.6	70
Triethylene	1.13	185.7	70
Diethylene	1.12	149.7	70
Ethylene	1.13	88.4	70
Honey (Raw)		340	100
Hydrochloric Acid (31.5%)	1.15	33	68
Kerosene	.78 - .82	35 32.6	68 100
Machine Lubricating Oil (Average Pennsylvania Paraffin Base):			
Federal Specification #8	.88 - .94	112 - 160 70 - 90	100 130
Federal Specification #10	.88 - .94	160 - 235 90 - 120	100 130
Federal Specification #20	.88 - .94	235 - 385 120 - 185	100 130
Federal Specification #30	.88 - .94	385 - 550 185 - 255	100 130
Mercury	13.6		70
Milk	1.02 - 1.05	31.2	68
Mineral Lard Cutting Oil:			
Federal Specification Grade 1		140 - 190 86 - 110	100 130
Federal Specification Grade 2		190 - 220 110 - 125	100 130
Molasses:			

"A" (First)	1.5	1300 - 23000 700 - 8000	100 130
"B" (Second)	1.5	6400 - 60000 3000 - 15000	100 130
"C" (Blackstrap or Final)	1.5	17000 - 250000 6000 - 75000	100 130
Nitric Acid	1.41	31.5	68
Petrolatum	.83	100 77	130 160
Phenol (Carbolic Acid)	.95 - 1.08	65	65
Pine Tar	1.06	2500 500	100 132
Plant Oils:			
Castor Oil	.96 @ 68F	1200 - 1500 450 - 600	100 130
China Wood Oil	.94	1425 580	69 100
Coconut Oil	.93	140 - 148 76 - 80	100 130
Corn Oil	.92	135 54	130 212
Cottonseed Oil	.90	176 100	100 130
Creosote	1.04 - 1.10	70	68
Linseed Oil, Raw	.94	143 93	100 130
Olive Oil	.92	200 115	100 130
Palm Oil	.92	221 125	100 130
Peanut Oil	.92	195 112	100 130
Rape Seed Oil	.92	250 145	100 130
Rosin Oil	.98	1500	100

Rosin (Wood)	1.09 Average	600 500 - 20000	130 200
Sesame Oil	.92	1000 - 50000 184	190 100
Soybean Oil	.93 - .98	110 165	130 100
Turpentine	.87	96 33 32.6	130 60 100
Printer's Ink	1.00 - 138	2500 - 10000 1100 - 3000	100 130
Road Tar: Grade RT-2	1.07	200 - 300 55 - 60	122 212
Grade RT-4	1.08	400 - 700 65 - 75	122 212
Grade RT-6	1.09	1000 - 2000 85 - 125	122 212
Grade RT-8	1.13	3000 - 8000 150 - 225	122 212
Grade RT-10	1.14	20000 - 60000 250 - 400	122 212
Grade RT-12	1.15	114000 - 456000 500 - 800	122 212
Silicate of Soda	1.38 1.41	365 637.6	100 100
Sucrose Solutions/Sugar Syrups: 60 Brix	1.29	230 92	70 100
62 Brix	1.30	310 111	70 100
64 Brix	1.31	440 148	70 100
66 Brix	1.33	650 195	70 100

68 Brix	1.34	1000 275	70 100
70 Brix	1.35	1650 400	70 100
72 Brix	1.36	2700 640	70 100
74 Brix	1.38	5500 1100	70 100
76 Brix	1.39	10000 2000	70 100
Sulfuric Acid (100%)	1.83	75.7	68
Tallow	.92 (Average)	56	212
Tar - Coke Oven	1.12	3000 - 8000 650 - 1400	71 100
Tar - Gas House	1.16 - 1.30	15000 - 300000 2000 - 20000	70 100
Transformer Oil		115 max 65 max	70 100
Turbine Lubricating Oil (Federal Specification Penn Base)	.91 average	400 - 440 185 - 205	100 130
Varnish - Spar	.9	1425 650	68 100