

VISCOSITY AND REFRACTIVE INDEX VALUES FOR LIQUIDS

APPENDIX A

Liquid	Temp(C)	Absolute Viscosity	Refractive Index	Liquid	Temp(C)	Absolute Viscosity	Refractive Index
Acetaldehyde	10/20	.255/.22	1.3316	Dimethyl Sulfoxide	25	2.0	1.47
Acetic Acid	18/25	1.30/1.16	1.3718	Ether (Di-Ethyl)	20/25	.233/.222	1.3497
Acetic Anhydride	18/50	.90/.62	1.3904	Ethanol (100%)	20/30	1.2/1.003	1.3624
Acetone	20/25	.326/.316	1.3589	Ethyl Acetate	20/25	.455/.441	1.3722
Acetonitrile	15/25	.375/.345	1.3460	Ethyl Alcohol(See Ethanol)			
Acetonitrile	20/25	.26/.345	1.3460	Ethyl Benzene	17/25	.691/.640	1.49
Acetophenone	20/25	1.8/1.62	1.5342	Ethyl Bromide	20	.402	1.4239
Allyl Alcohol	20/30	1.363/1.07	1.4135	Ethylene Bromide	20	1.721	1.5379
n-Amyl Alcohol	15/30	4.65/2.99	1.4099	Ethylene Glycol(100%)	20/30	19.9/12.2	1.4627
Aniline	20/50	4.40/1.85	1.5863	Ethylene Glycol(70%)	20/30	7.11/5.04	1.4627
Anisole	20	1.32	1.5179	Ethylene Glycol(50%)	20/30	4.2/3.11	1.4627
Benzaldehyde	20/25	1.6/1.39	1.5463	Ethylene Glycol(20%)	20/30	1.835/1.494	1.4627
Benzene	20/50	.652/.436	1.5011	Ethylene Glycol(10%)	20/30	0.812/0.699	1.4627
Benzyl Alcohol	20/50	5.8/2.57	1.5396	Formamide	20/25	3.76/3.30	1.4453
Benzylamine	20	1.59	1.5401	Formic Acid	20/50	1.80/1.03	1.3714
m-Bromoaniline	20	6.81	1.6260	Freon (11 and 113)	25	.415	1.36
Bromoform	15/25	2.15/1.89	1.5980	Furfural	20/25	1.63/1.49	1.5261
n-Butyl Alcohol	20/50	2.948/1.42	1.3993	Glycerin(Glycetol)100%	20/30	1490/629	1.4729
Carbon Tetrachloride	20/50	.969/.654	1.4630	Glycerin 40% (W/W)	20/25	3.750/3.181	1.384
Castor Oil	25	600	1.47	Glycerin 20% (W/W)	20/25	1.769/1.542	1.357
Chlorobenzene	20/50	.799/.58	1.5248	Glycerin 10% (W/W)	20/25	1.311/1.153	1.345
Chloroform	20/25	.580/.542	1.4464	Heptane	20/25	.409/.386	1.3876
Cyclohexane	17/20	1.02/.696	1.4290	Hexane	20/25	.326/.294	1.3754
Cyclohexanone			1.451	Isobutyl Alcohol	15/20	4.703/3.9	1.3968
Cyclohexanol	20/50	68/11.8	1.4656	Isopar G	20/40	1.49/1.12	1.4186
Cyclohexene	20/50	.696/.456	1.4451	Isopar M			1.4362
n-Decane	20/50	.92/.615	1.4120	Isopentane	20	.223	1.3550
Dimethylaniline	20/50	1.41/.9	1.5582	Isopropyl Alcohol	15/30	2.86/1.77	1.377
Dimethylformamide	25	.802	1.42	Mehanol	20/25	.597/.547	1.3312

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Methylacetate	20/50	.381/.286	1.3594	Toluene	20/30	.590/.526	1.4960
Methyl Alcohol (See Methanol)				o-Toluidine	20	.39	1.5728
Methyl Ethyl Ketone	20/50	.42/.31	1.38	m-toluidine	20	.81	1.5711
Methyl Isobutyl Ketone	20/50	.579/.542	1.396	p-Toluidine	20	.80	1.5532
Methylene Chloride	15/30	.449/.393	1.4237	trans-Cinnamadenhyde			1.61
Methyl Iodide	20	.500	1.5293	Trichloroethane	20	.2	1.4377
n,n-Dimethyl Formamide	25	.802	1.43	Trichlorofluoroethane (Freon 113)	20/24	.72/.42	1.36
Nitrobenzene	20/50	2.0/1.24	1.5529	Vegetable Oil			1.47
Nitromethane	20/25	.66/.620	1.3818	Water	20/30	1.005/.801	1.3300
o-Nitrotoluene	20/40	2.37/1.63	1.5474	o-Xylene	16/20	.876/.810	1.5055
n-Nonane	20/50	.711/.492	1.4054	m-Xylene	15/20	.650/.620	1.4972
Norpar 15			1.429	p-Xylene	16/20	.696/.648	1.4958
Oil (See Silicone, Specific Oil type or Vegetable)							
n-Octane	20/50	.542/.389	1.3975				
n-Pentane	0/20	.277/.240	1.3570				
Phenol	50	3.4	1.5425				
n-Propylacetate	20/50	.537/.39	1.384				
Iso Propyl Acetate	20	.525	1.377				
n-Propyl Alcohol	20/30	2.23/1.72	1.3854				
Propyl Bromide	20	.524	1.4341				
Propylene Glycol(100%)	20/40	56/18	1.433				
Propylene Glycol(30%)	20/30	3.0/2.1	1.367				
Propylene Glycol(20%)	20/30	2.18/1.59	1.355				
Propylene Glycol(10%)	20/30	1.5/1.2	1.344				
Silicone Oil(Contact specific manufacturer for values)							
Styrene(Vinyl Benzene)	20/50	.749/.502	1.55				
Sulphuric Acid	20	.254	1.8340				
Tetradecane	20/50	2.31/1.32	1.429				
Tetrahydrofuran	20/30	.575/.525	1.40				