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Acoustic Properties for Liquids

Liquids	Velocity, Longitudinal		Density (g/cm ³)	Acoustic Impedance (g/cm ² -sec (x10 ⁵))
	cm/μs	in/μs		
Acetate, Butyl (n)	.127	.05	.871	1.02
Acetate, Ethyl	.118	.0465	.900	1.6
Acetate, Methyl	.115	.0453	.928	1.07
Acetate, Propyl	.118	.0465	.891	1.05
Acetone	.117	.0461	.790	.929
Acetonitrile	.129	.0508	.783	1.01
Acetonyl Acetone	.140	.0551	.729	1.359
Acetylenedichloride	.102	.0402	1.26	1.280
Alcohol, Butyl	.124	.0488	.810	1.003
Alcohol, Ethyl	.118	.0465	.789	.93
Alcohol, Furfuryl	.145	.0571	1.135	1.645
Alcohol, Methyl	.112	.0441	.792	.889
Alcohol, Propyl (i)	.117	.0461	.786	.919
Alcohol, Propyl (n)	.122	.048	.804	.983
Alcohol, t-Amyl	.120	.0472	.810	.976
Alkazine 13	.132	.052	.860	1.132
Aniline	.169	.0665	1.022	1.675
Benzene	.130	.0512	.870	1.129
Benzol	.133	.0524	.878	1.16
Benzol, Ethyl	.134	.0528	.868	1.16
Bromoform	.092	.0362	2.890	2.670
Butylene Glycol (2.3)	.148	.0583	1.019	1.511
Butyrate, Ethyl	.117	.0461	.877	1.03

Carbitol	.146	.0575	.988	1.431
Carbon Bisulfide	.116	.0457	N/A	N/A
Carbon Disulfide	.115	.0453	1.26	1.449
Carbon Tetrachloride	.093	.0366	1.595	1.478
Castor Oil	.148	.0583	.969	1.430
Chlorobenzene	.130	.0512	1.10	1.432
Chloroform	.0987	.0389	1.49	1.471
Cyclohexanol	.145	.0571	.962	1.40
Cyclohexanone	.142	.0559	.948	1.391
Diacetyl	.124	.0488	.990	1.222
Dichloroisobutane (1,3)	.122	.048	1.14	1.390
Diesel Oil	.125	.0492	N/A	N/A
Diethylene Glycol	.158	.0622	1.116	1.770
Diethyl Ketone	.131	.0516	.813	1.07
Dimethyl Phthalate	.146	.0575	1.20	1.758
d-Fenchone	.132	.052	.940	1.241
Dioxane	.138	.0543	.1033	1.425
Dipheynyl in diphenyl oxide 26.5%	.150	.0591	N/A	N/A
Ethanol Amide	.172	.0677	1.018	1.755
Ethyl Acetate	.199	.0783	.90	1.069
Ethyl Ether	.0986	.0388	.713	.702
Ethylene Glycol	.166	.0654	1.113	1.847
Fluorosilicone Oil Dow FS- 1265	.076	.0299	N/A	N/A
Formamide	.162	.0638	1.134	1.842
Furfural	.145	.0571	1.157	1.670
Gasoline	.125	.0492	.803	1.00
Glycerin	.192	.0756	1.26	2.42
Gravity Fuel Oil AA	.149	.0587	.99	1.472
Isopentane	.0992	.0391	.62	.615
Kerosene	.132	.052	.81	1.072
Linalool	.140	.0551	.884	1.23
Linseed Oil	.177	.0697	.922	1.63

Mercury 20° C	.142	.0559	13.87	19.7
Mesityl oxide	.131	.0516	.85	1.115
Methyl ethyl ketone	.121	.0476	.805	.972
Methyl Iodide	.098	.0386	N/A	N/A
Methyl Naphthalene	.151	.0594	1.090	1.645
Methyl Acetate	.121	.0476	.934	1.131
Monochlorobenzene	.127	.05	1.107	1.411
Morpholine	.144	.0567	1.000	1.442
Motor Oil (SAE 20)	.174	.0685	.870	1.51
M-xylol	.132	.052	.864	1.145
n-Hexanol	.130	.0512	.819	1.065
Nitrobenzene	.146	.0575	1.2	1.758
Nitromethane	.133	.0524	1.13	1.504
Olive Oil	.143	.0563	.948	1.391
Paraffin Oil	.142	.0559	.835	1.86
Paraffin (15° C)	.130	.0512	N/A	N/A
Peanut Oil	.146	.0575	.936	1.365
Pentane	.101	.0398	.621	.626
Petroleum	.129	.0508	.825	1.07
Polypropylene oxide (38° C) Ambiflo	.137	.0539	N/A	N/A
Polypropylene glycol (38 ° C) (Polyglycol P-400)	.130	.0512	N/A	N/A
Polypropylene glycol (38 ° C) (Polyglycol P-1200)	.130	.0512	N/A	N/A
Polypropylene glycol (38 ° C) (Polyglycol P-400)	.157	.0618	N/A	N/A
Pyridine	.141	.0555	.982	1.39
Salt Solution (10%)	.147	.0579	N/A	N/A
Salt Solution (15%)	.153	.0602	N/A	N/A
Salt Solution (20%)	.160	.063	N/A	N/A
Silicone (30 centipoise)	.099	.039	.993	.985
Silicone Oil (25° C) Dow 710 Fluid	.135	.0531	N/A	N/A
Solvessa #3	.137	.0539	.877	.201
Sperm Oil	.144	.0567	.88	1.268

Tallow (16° C)	.039	.0154	<i>N/A</i>	<i>N/A</i>
tert Butyl Chloride	.098	.0386	.84	.827
Tetraethylene Glycol	.158	.0622	1.12	1.784
Transformer Oil	.139	.0547	.92	1.28
Trichlorethylene	.105	.0413	1.05	.413
Triethylene Glycol	.161	.0634	1.123	1.975
Turpentine	.128	.0504	.893	1.14
Univis 800	.135	.0531	.870	1.191
Water (20° C)	.148	.0583	1.00	1.483
Water D ₂ O	.140	.0551	1.104	1.54
Water (Sea)	.153	.0602	1.025	1.572
Xylene Hexafluoride	.088	.0346	1.37	1.205

