

Speed of sound in various liquids and solids



Speed of sound in liquids at 25°C and atmospheric pressure				
Substance	Chem. Formula	Specific Gravity	Speed of Sound [m/s]	$\Delta v / ^\circ\text{C}$ [m/s/°C]
Acetic anhydride (22)	(CH ₃ CO) ₂ O	1.082 (20°C)	1180	2.5
Acetic acid, anhydride (22)	(CH ₃ CO) ₂ O	1.082 (20°C)	1180	2.5
Acetic acid, nitrile	C ₂ H ₃ N	0.783	1290	4.1
Acetic acid, ethyl ester (33)	C ₄ H ₈ O ₂	0.901	1085	4.4
Acetic acid, methyl ester	C ₃ H ₆ O ₂	0.934	1211	
Acetone	C ₃ H ₆ O	0.791	1174	4.5
Acetonitrile	C ₂ H ₃ N	0.783	1290	4.1
Acetylacetone	C ₆ H ₁₀ O ₂	0.729	1399	3.6
Acetylene dichloride	C ₂ H ₂ Cl ₂	1.26	1015	3.8
Acetylene tetrabromide (47)	C ₂ H ₂ Br ₄	2.966	1027	
Acetylene tetrachloride (47)	C ₂ H ₂ Cl ₄	1.595	1147	
Alcohol	C ₂ H ₆ O	0.789	1207	4
Alkazene-13	C ₁₅ H ₂₄	0.86	1317	3.9
Alkazene-25	C ₁₀ H ₁₂ Cl ₂	1.2	1307	3.4
2-Amino-ethanol	C ₂ H ₇ NO	1.018	1724	3.4
2-Aminotolidine (46)	C ₇ H ₉ N	0.999 (20°C)	1618	
4-Aminotolidine (46)	C ₇ H ₉ N	0.966 (45°C)	1480	
Ammonia (35)	NH ₃	0.771	1729	6.68
Amorphous Polyolefin		0.98	962.6	
t-Amyl alcohol	C ₅ H ₁₂ O	0.81	1204	
Aminobenzene (41)	C ₆ H ₅ NO ₂	1.022	1639	4
Aniline (41)	C ₆ H ₅ NO ₂	1.022	1639	4
Argon (45)	Ar	1.400 (-188°C)	853	
Azine	C ₆ H ₅ N	0.982	1415	4.1
Benzene (29,40,41)	C ₆ H ₆	0.879	1306	4.65
Benzol (29,40,41)	C ₆ H ₆	0.879	1306	4.65
Bromine (21)	Br ₂	2.928	889	3
Bromo-benzene (46)	C ₆ H ₅ Br	1.522	1170	
1-Bromo-butane (46)	C ₄ H ₉ Br	1.276 (20°C)	1019	
Bromo-ethane (46)	C ₂ H ₅ Br	1.460 (20°C)	900	
Bromoform (46,47)	CHBr ₃	2.89 (20°C)	918	3.1
n-Butane (2)	C ₄ H ₁₀	0.601 (0°C)	1085	5.8
2-Butanol	C ₄ H ₁₀ O	0.81	1240	3.3
sec-Butylalcohol	C ₄ H ₁₀ O	0.81	1240	3.3
n-Butyl bromide (46)	C ₄ H ₉ Br	1.276 (20°C)	1019	
n-Butyl chloride (22,46)	C ₄ H ₉ Cl	0.887	1140	4.57
tert Butyl chloride	C ₄ H ₉ Cl	0.84	984	4.2
Butyl oleate	C ₂₂ H ₄₂ O ₂		1404	3
2,3 Butylene glycol	C ₄ H ₁₀ O ₂	1.019	1484	1.51
Cadmium (7)	Cd		2237.7	
Carbinol (40,41)	CH ₄ O	0.791 (20°C)	1076	2.92
Carbitol	C ₆ H ₁₄ O ₃	0.988	1458	
Carbon dioxide (26)	CO ₂	1.101 (-37°C)	839	7.71

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Carbon disulphide	CS ₂	1.261 (22°C)	1149	
Carbon tetrachloride(33,35,47)	CCl ₄	1.595 (20°C)	926	2.48
Carbon tetrafluoride (14)	CF ₄	1.75 (-150°C)	875.2	6.61
Cetane (23)	C ₁₆ H ₃₄	0.773 (20°C)	1338	3.71
Chloro-benezene	C ₆ H ₅ Cl	1.106	1273	3.6
1-Chloro-butane (22,46)	C ₄ H ₉ Cl	0.887	1140	4.57
Chloro-diFluoromethane (3) (Freon 22)	CHClF ₂	1.491 (-69°C)	893.9	4.79
Chloroform (47)	CHCl ₃	1.489	979	3.4
1-Chloro-propane (47)	C ₃ H ₇ Cl	0.892	1058	
Chlorotrifluoromethane (5)	CClF ₃		724	5.26
Cinnamaldehyde	C ₉ H ₈ O	1.112	1554	3.2
Cinnamic aldehyde	C ₉ H ₈ O	1.112	1554	3.2
Colamine	C ₂ H ₇ NO	1.018	1724	3.4
o-Cresol (46) m-	C ₇ H ₈ O	1.047 (20°C)	1541	
Cresol (46)	C ₇ H ₈ O	1.034 (20°C)	1500	
Cyanomethane	C ₂ H ₃ N	0.783	1290	4.1
Cyclohexane (15)	C ₆ H ₁₂	0.779 (20°C)	1248	5.41
Cyclohexanol	C ₆ H ₁₂ O	0.962	1454	3.6
Cyclohexanone	C ₆ H ₁₀ O	0.948	1423	4
Decane (46)	C ₁₀ H ₂₂	0.73	1252	
1-Decene (27)	C ₁₀ H ₂₀	0.746	1235	4
n-Decylene (27)	C ₁₀ H ₂₀	0.746	1235	4
Diacetyl	C ₄ H ₆ O ₂	0.99	1236	4.6
Diamylamine	C ₁₀ H ₂₃ N		1256	3.9
1,2 Dibromo-ethane (47)	C ₂ H ₄ Br ₂	2.18	995	
trans-1,2-Dibromoethene(47)	C ₂ H ₂ Br ₂	2.231	935	
Dibutyl phthalate	C ₈ H ₂₂ O ₄		1408	
Dichloro-t-butyl alcohol	C ₄ H ₈ Cl ₂ O		1304	3.8
2,3 Dichlorodioxane	C ₂ H ₆ Cl ₂ O ₂		1391	3.7
Dichlorodifluoromethane (3) (Freon 12)	CCl ₂ F ₂	1.516 (-40°C)	774.1	4.24
1,2 Dichloro ethane (47)	C ₂ H ₄ Cl ₂	1.253	1193	
cis 1,2-Dichloro-Ethene(3,47)	C ₂ H ₂ Cl ₂	1.284	1061	
trans 1,2-Dichloro-ethene(3,47)	C ₂ H ₂ Cl ₂	1.257	1010	
Dichloro-fluoromethane (3) (Freon 21)	CHCl ₂ F	1.426 (0°C)	891	3.97
1-2-Dichlorohexafluoro cyclobutane (47)	C ₄ Cl ₂ F ₆	1.654	669	
1-3-Dichloro-isobutane	C ₄ H ₈ Cl ₂	1.14	1220	3.4
Dichloro methane (3)	CH ₂ Cl ₂	1.327	1070	3.94
1,1-Dichloro-1,2,2,2 tetra fluoroethane	CClF ₂ -CClF ₂	1.455	665.3	3.73
Diethyl ether	C ₄ H ₁₀ O	0.713	985	4.87
Diethylene glycol, monoethyl ether	C ₆ H ₁₄ O ₃	0.988	1458	
Diethylenimide oxide	C ₄ H ₉ NO	1	1442	3.8
1,2-bis(DiFluoramino) butane (43)	C ₄ H ₈ (NF ₂) ₂	1.216	1000	
1,2bis(DiFluoramino)- 2-methylpropane (43)	C ₄ H ₉ (NF ₂) ₂	1.213	900	
1,2bis(DiFluoramino) propane (43)	C ₃ H ₆ (NF ₂) ₂	1.265	960	
2,2bis(DiFluoramino) propane (43)	C ₃ H ₆ (NF ₂) ₂	1.254	890	
2,2-Dihydroxydiethyl ether	C ₄ H ₁₀ O ₃	1.116	1586	2.4
Dihydroxyethane	C ₂ H ₆ O ₂	1.113	1658	2.1
1,3-Dimethyl-benzene (46)	C ₈ H ₁₀	0.868 (15°C)	1343	
1,2-Dimethyl-benzene(29,46)	C ₈ H ₁₀	0.897 (20°C)	1331.5	4.1

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1,4-Dimethyl-benzene (46)	C ₈ H ₁₀		1334	
2,2-Dimethyl-butane (29,33)	C ₆ H ₁₄	0.649 (20°C)	1079	
Dimethyl ketone	C ₃ H ₆ O	0.791	1174	4.5
Dimethyl pentane (47)	C ₇ H ₁₆	0.674	1063	
Dimethyl phthalate	C ₈ H ₁₀ O ₄	1.2	1463	
Diiodo-methane	CH ₂ I ₂	3.235	980	
Dioxane	C ₄ H ₈ O ₂	1.033	1376	
Dodecane (23)	C ₁₂ H ₂₆	0.749	1279	3.85
1,2-Ethanediol	C ₂ H ₆ O ₂	1.113	1658	2.1
Ethanenitrile	C ₂ H ₃ N	0.783	1290	
Ethanoic anhydride (22)	(CH ₃ CO) ₂ O	1.082	1180	
Ethanol	C ₂ H ₆ O	0.789	1207	4
Ethanol amide	C ₂ H ₇ NO	1.018	1724	3.4
Ethoxyethane	C ₄ H ₁₀ O	0.713	985	4.87
Ethyl acetate (33)	C ₄ H ₈ O ₂	0.901	1085	4.4
Ethyl alcohol	C ₂ H ₆ O	0.789	1207	4
Ethyl benzene (46)	C ₈ H ₁₀	0.867(20°C)	1338	
Ethyl bromide (46)	C ₂ H ₅ Br	1.461 (20°C)	900	
Ethyl iodide (46)	C ₂ H ₅ I	1.950 (20°C)	876	
Ether	C ₄ H ₁₀ O	0.713	985	4.87
Ethyl ether	C ₄ H ₁₀ O	0.713	985	4.87
Ethylene bromide (47)	C ₂ H ₄ Br ₂	2.18	995	
Ethylene chloride (47)	C ₂ H ₄ Cl ₂	1.253	1193	
Ethylene glycol	C ₂ H ₆ O ₂	1.113	1658	2.1
50% Glycol/ 50% H ₂ O			1578	
d-Fenochone	C ₁₀ H ₁₆ O	0.947	1320	
d-2-Fenecanone	C ₁₀ H ₁₆ O	0.947	1320	
Fluorine	F	0.545 (-143°C)	403	11.31
Fluoro-benzene (46)	C ₆ H ₅ F	1.024 (20°C)	1189	
Formaldehyde, methyl ester	C ₂ H ₄ O ₂	0.974	1127	4.02
Formamide	CH ₃ NO	1.134 (20°C)	1622	2.2
Formic acid, amide	CH ₃ NO	1.134 (20°C)	1622	
Freon R12			774	
Furfural	C ₅ H ₄ O ₂	1.157	1444	
Furfuryl alcohol	C ₅ H ₆ O ₂	1.135	1450	3.4
Fural	C ₅ H ₄ O ₂	1.157	1444	3.7
2-Furaldehyde	C ₅ H ₄ O ₂	1.157	1444	3.7
2-Furancarboxaldehyde	C ₅ H ₄ O ₂	1.157	1444	3.7
2-Furyl-Methanol	C ₅ H ₆ O ₂	1.135	1450	3.4
Gallium	Ga	6.095	2870 (@30°C)	
Glycerin	C ₃ H ₈ O ₃	1.26	1904	2.2
Glycerol	C ₃ H ₈ O ₃	1.26	1904	2.2
Glycol	C ₂ H ₆ O ₂	1.113	1658	2.1
Helium (45)	He ₄	0.125(-268.8°C)	183	
Heptane (22,23)	C ₇ H ₁₆	0.684 (20°C)	1131	4.25
n-Heptane (29,33)	C ₇ H ₁₆	0.684 (20°C)	1180	4
Hexachloro-Cyclopentadiene(47)	C ₅ Cl ₆	1.718	1150	
Hexadecane (23)	C ₁₆ H ₃₄	0.773 (20°C)	1338	3.71
Hexalin	C ₆ H ₁₂ O	0.962	1454	3.6

Substance	Chem. Formula	Specific Gravity	Speed of Sound [m/s]	$\Delta v/^\circ\text{C}$ [m/s/°C]
Hexane (16,22,23)	C ₆ H ₁₄	0.659	1112	2.71
n-Hexane (29,33)	C ₆ H ₁₄	0.649 (20°C)	1079	4.53
2,5-Hexanedione	C ₆ H ₁₀ O ₂	0.729	1399	3.6
n-Hexanol	C ₆ H ₁₄ O	0.819	1300	3.8
Hexahydrobenzene (15)	C ₆ H ₁₂	0.779	1248	5.41
Hexahydrophenol	C ₆ H ₁₂ O	0.962	1454	3.6
Hexamethylene (15)	C ₆ H ₁₂	0.779	1248	5.41
Hydrogen (45)	H ₂	0.071 (-256°C)	1187	
2-Hydroxy-toluene (46)	C ₇ H ₈ O	1.047 (20°C)	1541	
3-Hydroxy-toluene (46)	C ₇ H ₈ O	1.034 (20°C)	1500	
Iodo-benzene (46)	C ₆ H ₅ I	1.823	1114	
Iodo-ethane (46)	C ₂ H ₅ I	1.950 (20°C)	876	
Iodo-methane	CH ₃ I	2.28 (20°C)	978	
Isobutyl acetate (22)	C ₆ H ₁₂ O		1180	4.85
Isobutanol	C ₄ H ₁₀ O	0.81 (20°C)	1212	
Iso-Butane			1219.8	
Isopentane (36)	C ₅ H ₁₂	0.62 (20°C)	980	4.8
Isopropanol (46)	C ₃ H ₈ O	0.785 (20°C)	1170	
Isopropyl alcohol (46)	C ₃ H ₈ O	0.785 (20°C)	1170	
Kerosene		0.81	1324	3.6
Ketohexamethylene	C ₆ H ₁₀ O	0.948	1423	4
Lithium fluoride (42)	LiF		2485	1.29
Mercury (45)	Hg	13.594	1449	
Mesityloxide	C ₆ H ₁₆ O CH ₄	0.85	1310	
Methane (25,28,38,39)		0.162	405(-89.15°C)	17.5
Methanol (40,41)	CH ₄ O	0.791 (20°C)	1076	2.92
Methyl acetate	C ₃ H ₆ O ₂	0.934	1211	
o-Methylaniline (46)	C ₇ H ₉ N	0.999 (20°C)	1618	
4-Methylaniline (46)	C ₇ H ₉ N	0.966 (45°C)	1480	
Methyl alcohol (40,44)	CH ₄ O	0.791 (20°C)	1076	2.92
Methyl benzene (16,52)	C ₇ H ₈	0.867	1328	4.27
2-Methyl-butane (36)	C ₅ H ₁₂	0.62 (20°C)	980	
Methyl carbinol	C ₂ H ₆ O	0.789	1207	4
Methyl-chloroform (47)	C ₂ H ₃ Cl ₃	1.33	985	
Methyl-cyanide	C ₂ H ₃ N	0.783	1290	
3-Methyl cyclohexanol	C ₇ H ₁₄ O	0.92	1400	
Methylene chloride (3)	CH ₂ Cl ₂	1.327	1070	3.94
Methylene iodide	CH ₂ I ₂	3.235	980	
Methyl formate (22)	C ₂ H ₄ O ₂	0.974 (20°C)	1127	4.02
Methyl iodide	CH ₃ I	2.28 (20°C)	978	
α -Methyl naphthalene	C ₁₁ H ₁₀	1.09	1510	3.7
2-Methylphenol (46)	C ₇ H ₈ O	1.047 (20°C)	1541	
3-Methylphenol (46)	C ₇ H ₈ O	1.034 (20°C)	1500	
Milk, homogenized			1548	
Morpholine	C ₄ H ₉ NO	1	1442	3.8
Naphtha		0.76	1225	
Natural Gas (37)		0.316 (-103°C)	753	
Neon (45)	Ne	1.207 (-246°C)	595	
Nitrobenzene (46)	C ₆ H ₅ NO ₂	1.204 (20°C)	1415	

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Nitrogen (45)	N ₂	0.808 (-199°C)	962	
Nitromethane (43)	CH ₃ NO ₂	1.135	1300	4
Nonane (23)	C ₉ H ₂₀	0.718 (20°C)	1207	4.04
1-Nonene (27)	C ₉ H ₁₈	0.736 (20°C)	1207	4
Octane (23)	C ₈ H ₁₈	0.703	1172	4.14
n-Octane (29)	C ₈ H ₁₈	0.704 (20°C)	1212.5	3.5
1-Octene (27)	C ₈ H ₁₆	0.723 (20°C)	1175.5	4.1
Oil of Camphor Sassafrassy			1390	3.8
Oil, Car (SAE 20a.30)	1.74		870	
Oil, Castor	C ₁₁ H ₁₀ O ₁₀	0.969	1477	3.6
Oil, Diesel		0.8	1250	
Oil, Fuel AA gravity		0.99	1485	3.7
Oil (Lubricating X200)			1530	5019.9
Oil (Olive)		0.912	1431	2.75
Oil (Peanut)		0.936	1458	
Oil (Sperm)		0.88	1440	
Oil, 6			1509	
2,2-Oxydiethanol	C ₄ H ₁₀ O ₃	1.116	1586	2.4
Oxygen (45)	O ₂	1.155 (-186°C)	952	
Pentachloro-ethane (47)	C ₂ HCl ₅	1.687	1082	
Pentalin (47)	C ₂ HCl ₅	1.687	1082	
Pentane (36)	C ₅ H ₁₂	0.626 (20°C)	1020	
n-Pentane (47)	C ₅ H ₁₂	0.557	1006	
Perchlorocyclopentadiene(47)	C ₅ Cl ₆	1.718	1150	
Perchloro-ethylene (47)	C ₂ Cl ₄	1.632	1036	
Perfluoro-1-Hepten (47)	C ₇ F ₁₄	1.67	583	
Perfluoro-n-Hexane (47)	C ₆ F ₁₄	1.672	508	
Phene (29,40,41)	C ₆ H ₆	0.879	1306	4.65
β-Phenyl acrolein	C ₉ H ₈ O	1.112	1554	3.2
Phenylamine (41)	C ₆ H ₅ NO ₂	1.022	1639	4
Phenyl bromide (46)	C ₆ H ₅ Br	1.522	1170	
Phenyl chloride	C ₆ H ₅ Cl	1.106	1273	3.6
Phenyl iodide (46)	C ₆ H ₅ I	1.823	1114	
Phenyl methane (16,52)	C ₇ H ₈	0.867 (20°C)	1328	4.27
3-Phenyl propenal	C ₉ H ₈ O	1.112	1554	3.2
Phthaldione	C ₈ H ₄ O ₃		1125	
Phthalic acid, anhydride	C ₈ H ₄ O ₃		1125	
Phthalic anhydride	C ₈ H ₄ O ₃		1125	
Pimelic ketone	C ₆ H ₁₀ O	0.948	1423	4
Plexiglas, Lucite, Acrylic			2651	
Polyterpene Resin		0.77	1099.8	
Potassium bromide (42)	Kbr		1169	0.71
Potassium fluoride (42)	KF		1792	1.03
Potassium iodide (42)	KI		985	0.64
Potassium nitrate (48)	KNO ₃	1.859 (352°C)	1740.1	1.1
Propane (2,13)(-45 to -130°C)	C ₃ H ₈	0.585 (-45°C)	1003	5.7
1,2,3-Propanetriol	C ₃ H ₈ O ₃	1.26	1904	2.2
1-Propanol (46)	C ₃ H ₈ O	0.78 (20°C)	1222	
2-Propanol (46)	C ₃ H ₈ O	0.785 (20°C)	1170	

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2-Propanone	<chem>C3H6O</chem>	0.791	1174	4.5
Propene (17,18,35)	<chem>C3H6</chem>	0.563 (-13°C)	963	6.32
n-Propyl acetate (22)	<chem>C5H10O2</chem>	1280 (2°C)	4.63	
n-Propyl alcohol	<chem>C3H8O</chem>	0.78 (20°C)	1222	
Propylchloride (47)	<chem>C3H7Cl</chem>	0.892	1058	
Propylene (17,18,35)	<chem>C3H6</chem>	0.563 (-13°C)	963	6.32
Pyridine	<chem>C5H5N</chem>	0.982	1415	4.1
Refrigerant 11 (3,4)	<chem>CCl3F</chem>	1.49	828.3	3.56
Refrigerant 12 (3)	<chem>CCl2F2</chem>	1.516 (-40°C)	774.1	4.24
Refrigerant 14 (14)	<chem>CF4</chem>	1.75 (-150°C)	875.24	6.61
Refrigerant 21 (3)	<chem>CHCl2F</chem>	1.426 (0°C)	891	3.97
Refrigerant 22 (3)	<chem>CHClF2</chem>	1.491 (-69°C)	893.9	4.79
Refrigerant 113 (3)	<chem>CCl2F-CClF2</chem>	1.563	783.7	3.44
Refrigerant 114 (3)	<chem>CClF2-CClF2</chem>	1.455	665.3	3.73
Refrigerant 115 (3)	<chem>C2ClF5</chem>		656.4	4.42
Refrigerant C318 (3)	<chem>C4F8</chem>	1.62 (-20°C)	574	3.88
Selenium (8)	<chem>Se</chem>		1072	0.68
Silicone (30 cp)		0.993	990	
Sodium fluoride (42)	<chem>NaF NaNO3</chem>	0.877	2082	1.32
Sodium nitrate (48)	<chem>NaNO3</chem>	1.884 (336°C)	1763.3	0.74
Sodium nitrite (48)	<chem>NaNO2</chem>	1.805 (292°C)	1876.8	
Solvesso 3		0.877	1370	3.7
Spirit of wine	<chem>C2H6O</chem>	0.789	1207	4
Sulphur (7,8,10)	<chem>S</chem>		1177	-1.13
Sulphuric acid (1)	<chem>H2SO4</chem>	1.841	1257.6	1.43
Tellurium (7)	<chem>Te</chem>		991	0.73
1,1,2,2-Tetrabromo-ethane(47)	<chem>C2H2Br4</chem>	2.96612	1027	
1,1,2,2-Tetrachloro-ethane(67)	<chem>C2H2Cl4</chem>	1.595	1147	
Tetrachloroethane (46)	<chem>C2H2Cl4</chem>	1.553 (20°C)	1170	
Tetrachloro-ethene (47)	<chem>C2Cl4</chem>	1.632	1036	
Tetrachloro-methane (33,47)	<chem>CCl4</chem>	1.595 (20°C)	926	
Tetradecane (46)	<chem>C14H30</chem>	0.763 (20°C)	1331	
Tetraethylene glycol	<chem>C8H18O5</chem>	1.123	1586/5203.4	3
Tetrafluoro-methane (14) (Freon 14)	<chem>CF4</chem>	1.75 (-150°C)	875.24	6.61
Tetrahydro-1,4-isoxazine	<chem>C4H9NO</chem>		1442	3.8
Toluene (16,52)	<chem>C7H8</chem>	0.867 (20°C)	1328	4.27
o-Toluidine (46)	<chem>C7H9N</chem>	0.999 (20°C)	1618	
p-Toluidine (46)	<chem>C7H9N</chem>	0.966 (45°C)	1480	
Toluol	<chem>C7H8</chem>	0.866	1308	4.2
Tribromo-methane (46,47)	<chem>CHBr3</chem>	2.89 (20°C)	918	
1,1,1-Trichloro-ethane (47)	<chem>C2H3Cl3</chem>	1.33	985	
Trichloro-ethene (47)	<chem>C2HCl3</chem>	1.464	1028	
Trichloro-fluoromethane (3) (Freon 11)	<chem>CCl3F</chem>	1.49	828.3	3.56
Trichloro-methane (47)	<chem>CHCl3</chem>	1.489	979	3.4
1,1,2-Trichloro-1,2,2-Trifluoro-Ethane	<chem>CCl2F-CClF2</chem>	1.563	783.7	
Triethyl-amine (33)	<chem>C6H15N</chem>	0.726	1123	4.47
Triethylene glycol	<chem>C6H14O4</chem>	1.123	1608	3.8
1,1,1-Trifluoro-2-Chloro-2-Bromo-Ethane	<chem>C2HClBrF3</chem>	1.869	693	
1,2,2-Trifluorotrichloro- ethane (Freon 113)	<chem>CCl2F-CClF2</chem>	1.563	783.7	3.44

Substance	Chem. Formula	Specific Gravity	Speed of Sound [m/s]	$\Delta v / ^\circ\text{C}$ [m/s/°C]
d-1,3,3-Trimethylnor- camphor	$\text{C}_{10}\text{H}_{16}\text{O}$	0.947	1320	
Trinitrotoluene (43)	$\text{C}_7\text{H}_5(\text{NO}_2)_3$	1.64	1610	
Turpentine		0.88	1255	
Unisis 800		0.87	1346	
Water, distilled (49,50)	H_2O	0.996	1498	-2.4
Water, heavy	D_2O		1400	
Water, sea		1.025	1531	-2.4
Wood Alcohol (40,41)	CH_4O	0.791 (20°C)	1076	2.92
Xenon (45)	Xe		630	
m-Xylene (46)	C_8H_{10}	0.868 (15°C)	1343	
o-Xylene (29,46)	C_8H_{10}	0.897 (20°C)	1331.5	4.1
p-Xylene (46)	C_8H_{10}		1334	
Xylene hexafluoride	$\text{C}_8\text{H}_4\text{F}_6$	1.37	879	
Zinc (7)	Zn		3298	

Speed of sound in solids at 25°C and atmospheric pressure

Material	Shear Wave Velocity [m/s]	Long Wave Velocity [m/s]
Steel 1% Carbon (hardened)	3150	5880
Carbon Steel	3230	5890
Mild Steel	3235	5890
Steel 1% Carbon	3220	
302 - Stainless Steel	3120	5660
303 - Stainless Steel	3120	5660
304 - Stainless Steel	3075	
316 - Stainless Steel	3175	5310
347 - Stainless Steel	3100	5740
410 - Stainless Steel	2990	5390
430 - Stainless Steel	3360	
Aluminium	3100	6320
Aluminium (rolled)	3040	
Copper	2260	4660
Copper (annealed)	2325	
Copper (rolled)	2270	
CuNi (70%Cu, 30%Ni)	2540	5030
CuNi (90%Cu, 10%Ni)	2060	4010
Brass (Naval)	2120	4430
Gold (hard-drawn)	1200	3240
Inconel	3020	5820
Iron (electrolytic)	3240	5900
Iron (Armco)	3240	5900
Ductile Iron	3000	4550
Cast Iron	2500	
Monel	2720	5350
Nickel	2960	5630
Tin (rolled)	1670	3320
Titanium	3125	6100
Tungsten (annealed)	2890	5180
Tungsten (drawn)	2640	
Tungsten (carbide)	3980	
Zinc (rolled)	2440	4170
Glass (Pyrex)	3280	5610
Glass (heavy silicate flint)	2380	
Glass (light borate crown)	2840	5260
Nylon	1150	2400
Nylon (6-6)	1070	
Polyethylene (HD)		2310
Polyethylene (LD)	540	1940
PVC, cPVC		2400
Acrylic	1430	2730
Asbestos Cement		2200
Tar Epoxy		2000
Rubber		1900

* for transducers A & B consider shear wave velocity

** for transducers C & D consider long wave velocity