

SOLVENT MISCIBILITY TABLE

Solvent Miscibility Table		Solvent	Polarity Index	Refractive Index @20°C	UV(nm) Cutoff @1AU	Boiling Point(°C)	Viscosity (cPoise)	Solubility in water (%w/w)
		Acetic Acid	6.2	1.372	230	118	1.26	100
		Acetone	5.1	1.359	330	56	0.32	100
		Acetonitrile	5.8	1.344	190	82	0.37	100
		Benzene	2.7	1.501	280	80	0.65	0.18
		n-Butanol	4.0	1.394	254	125	0.73	0.43
		Butyl Acetate	3.9	1.399	215	118	2.98	7.81
		Carbon Tetrachloride	1.6	1.466	263	77	0.97	0.08
		Chloroform	4.1	1.446	245	61	0.57	0.815
		Cyclohexane	0.2	1.426	200	81	1.00	0.01
		1,2-Dichloroethane ¹	3.5	1.444	225	84	0.79	0.81
		Dichloromethane ²	3.1	1.424	235	41	0.44	1.6
		Dimethylformamide	6.4	1.431	268	155	0.92	100
		Dimethyl Sulfoxide ³	7.2	1.478	268	189	2.00	100
		Dioxane	4.8	1.422	215	101	1.54	100
		Ethanol	5.2	1.360	210	78	1.20	100
		Ethyl Acetate	4.4	1.372	260	77	0.45	8.7
		Di-Ethyl Ether	2.8	1.353	220	35	0.32	6.89
		Heptane	0.0	1.387	200	98	0.39	0.0003
		Hexane	0.0	1.375	200	69	0.33	0.001
		Methanol	5.1	1.329	205	65	0.60	100
		Methyl-t-Butyl Ether ⁴	2.5	1.369	210	55	0.27	4.8
		Methyl Ethyl Ketone ⁵	4.7	1.379	329	80	0.45	24
		Pentane	0.0	1.358	200	36	0.23	0.004
		n-Propanol	4.0	1.384	210	97	2.27	100
		Iso-Propanol ⁶	3.9	1.377	210	82	2.30	100
		Di-Iso-Propyl Ether	2.2	1.368	220	68	0.37	
		Tetrahydrofuran	4.0	1.407	215	65	0.55	100
		Toluene	2.4	1.496	285	111	0.59	0.051
		Tichloroethylene	1.0	1.477	273	87	0.57	0.11
		Water	9.0	1.333	200	100	1.00	100
		Xylene	2.5	1.500	290	139	0.61	0.018

<input checked="" type="checkbox"/> Immiscible	Synonym Table
<input type="checkbox"/> Miscible	¹ Ethylene Chloride
	² Methylene Chloride
	³ Methyl Sulfoxide
	⁴ tert-Butyl Methyl Ether
	⁵ 2-Butanone
	⁶ 2-Propanol

Immiscible means that in some proportions two phases will be produced

Solvent Polarity Chart

Relative Polarity	Compound Formula	Group	Representative Solvent Compounds
Nonpolar	R - H	Alkanes	Petroleum ethers, ligroin, hexanes
	Ar - H	Aromatics	Toluene, benzene
	R - O - R	Ethers	Diethyl ether
	R - X	Alkyl halides	Tetrachloromethane, chloroform
	R - COOR	Esters	Ethyl acetate
	R - CO - R	Aldehydes and ketones	Acetone, methyl ethyl ketone
	R - NH ₂	Amines	Pyridine, triethylamine
	R - OH	Alcohols	Methanol, ethanol, isopropanol, butanol
	R - COHN ₂	Amides	Dimethylformamide
	R - COOH	Carboxylic acids	Ethanoic acid
Polar	H - OH	Water	Water