

Solvent Properties

	MW	Boiling Pt (°C)	Melting Pt (°C)	Density (g/mL)	H ₂ O Solubility (g/100g)
acetic acid	60.05	118	16.6	1.049	Miscible
acetone	58.08	56.2	-94.3	0.786	Miscible
acetonitrile	41.05	81.6	-46	0.786	Miscible
benzene	78.11	80.1	5.5	0.879	0.18
1-butanol	74.12	117.6	-89.5	0.81	6.3
2-butanol	74.12	98	-115	0.808	15
2-butanone	72.11	79.6	-86.3	0.805	25.6
t-butyl alcohol	74.12	82.2	25.5	0.786	Miscible
carbon tetrachloride	153.82	76.7	-22.4	1.594	0.08
chlorobenzene	112.56	131.7	-45.6	1.106	0.05
chloroform	119.38	61.7	-63.7	1.498	0.795
cyclohexane	84.16	80.7	6.6	0.779	<0.1
1,2-dichloroethane	98.96	83.5	-35.3	1.245	0.861
diethyl ether	74.12	34.6	-116.3	0.713	7.5
diethylene glycol	106.12	245	-10	1.118	10
diglyme	134.17	162	-68	0.943	Miscible
DME	90.12	85	-58	0.868	Miscible
dimethylether	46.07	-22	-138.5		
DMF	73.09	153	-61	0.944	Miscible
DMSO	78.13	189	18.4	1.092	25.3
dioxane	88.11	101.1	11.8	1.033	Miscible
ethanol	46.07	78.5	-114.1	0.789	Miscible
ethyl acetate	88.11	77	-83.6	0.895	8.7
ethylene glycol	62.07	195	-13	1.115	Miscible
glycerin	92.09	290	17.8	1.261	Miscible
heptane	100.2	98	-90.6	0.684	0.01

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HMPA	179.2	232.5	7.2	1.03	Miscible
HMPT	163.2	150	-44	0.898	Miscible
hexane	86.18	69	-95	0.659	0.014
methanol	32.04	64.6	-98	0.791	Miscible
MTBE	88.15	55.2	-109	0.741	5.1
methylene chloride	84.93	39.8	-96.7	1.326	1.32
NMP	99.13	202	-24	1.033	10
nitromethane	61.04	101.2	-29	1.382	9.5
pentane	72.15	36.1	-129.7	0.626	0.04
petroleum ether		30-60	-40	0.656	
1-propanol	88.15	97	-126	0.803	Miscible
2-propanol	88.15	82.4	-88.5	0.785	Miscible
pyridine	79.1	115.2	-41.6	0.982	Miscible
THF	72.11	66	-108.4	0.886	30
toluene	92.14	110.6	-93	0.867	0.05
triethyl amine	101.19	88.9	-114.7	0.728	0.02
water	18.02	100	0	0.998	
water (heavy)	20.03	101.3	4	1.107	Miscible
o-xylene	106.17	144	-25.2	0.897	Insoluble
m-xylene	106.17	139.1	-47.8	0.868	Insoluble
p-xylene	106.17	138.4	13.3	0.861	Insoluble

This table was originally from: [Prof. Murov's Orgsolstab](#), which was edited and reposted by [Erowid](#). I modified it also.

The values in the table above were obtained from [ChemFinder Web Server](#), the CRC, or Vogel's *Practical Organic Chemistry* (5th ed.).

T = 20 °C unless specified otherwise.

Source: http://www2.onu.edu/~b-myers/organic_solvents.html