

<i>OTS Elutropic Series</i>	Dielec Const (€)	Dipole Moment (Debye)	bp 1 bar (°C)	Vap p NTP (mbar)	ρ mg/mL	MW (Da)	mp (°C)	Sol in 100g H <sub>2</sub> O	H <sub>2</sub> O Sol in 100g
Water	78.3	1.85	100	32	998.2	18.012	0	-	-
Acetic Acid	6.15	1.74	118	15	1049	60.052	16.5	misc	misc
Methanol	33.6	1.7	65	169	791.4	32.042	-98	misc	misc
Ethanol	24.3	1.69	79	79	789.3	46.068	-115	misc	misc
Isopropanol	18.3	1.66	83	58	786	60.095	-88	misc	misc
Pyridine	12.3	2.28	115	20	981.9	79.101	-42	misc	misc
Acetonitrile	3.88	3.92	82	119	785.9	41.052	-44	misc	misc
Dimethylsulfoxide	47	3.96	189	0.8	1101	78.133	18	misc	misc
Ethyl acetate	6.02	0.44	77	98	900.3	88.105	-84	8.3	3.3
Dioxane	2.21	0.45	101	45	1033	88.105	12	misc	misc
Acetone	20.7	2.88	56	308	784.5	58.079	-95	misc	misc
Tetrahydrofuran	7.58	1.75	65	216	883.3	72.106	-108	misc	misc
Dichloromethane	9.14	1.6	40	582	1327	84.933	-97	1.3	0.2
Chloroform	4.87	1.04	61	262	1479	119.378	-63	0.8	0.07
Diethyl ether	4.34	1.15	34.5	717	713.8	74.121	-116	7.5	1.3
Benzene	2.28	0	80	127	876.5	78.122	5.5	0.2	?
Toluene	2.38	0.37	111	38	866.8	92.139	-95	0.05	?
Carbon tetrachloride	2.2	0	77	152	1594	153.8	-23	0.08	0.01
Cyclohexane	2.02	0	81	130	773.9	84.159	6.6	<0.1	<0.1
Petroleum ether	-2	0	~40-60	-500	~650	-80	~ -130	?	?
n-Hexane	1.89	0	69	202	660.6	86.175	-96	0	0
n-Pentane	1.84	0	36	533	626.2	72.149	-130	?	?

### Other

Methyl <i>t</i> -butyl ether	2.6	1.32	55	336	735.3	88.148	-109	?	?
Dimethylformamide	36.7	3.82	153	4	944.5	73.094	-61	misc	misc
1,2-dichloroethane	10.5	1.8	84	106	1176	98.959	-97	0.87	?
Triethylamine		0.7?	89	72	727.5	101.190	-115	13.3	?
Dimethylacetamide	37.8	3.72	165	1.8	0.9372	87.120	-19	?	?
<i>t</i> -Butanol	12.4	1.7	82	?	0.7812	74.12	26	misc	misc

ligroin: C<sub>7</sub>C<sub>11</sub> @ 60-90°C: 55% alk, 30% cycloalk, 12% alkylbenz, 2% dicycloalk

### Magic Eluants

1 - 1:10:90 NH<sub>4</sub>OH : MeOH : DCM

2 - 80:10:5:5 EtOAc : nBuOH : H<sub>2</sub>O : AcOH

### Frozen Joints:

a) freeze, acetone, heat

b) 10:5:5:3 chloral hydrate, glycerine, water, conc HCl