Table S1 Solute descriptors, and values of log P for partition between water and wet diethyl ether.

Solute	**E**	**S**	**A**	**B^0**	**V**	Log P
Radon	0.000	0.00	0.00	0.00	0.3840	1.72
Chlorocyclohexane	0.448	0.48	0.00	0.10	0.9678	3.15
Bromocyclohexane	0.615	0.54	0.00	0.16	1.0204	3.32
Iodoethane	0.640	0.40	0.00	0.15	0.6486	2.45
ethylether	0.041	0.25	0.00	0.45	0.7309	1.00
Propanone	0.179	0.70	0.04	0.49	0.5470	-0.21
b-Propiolactone	0.351	1.50	0.00	0.39	0.4971	0.02
Methyl acetate	0.142	0.64	0.00	0.45	0.6057	0.40
Ethyl acetate	0.106	0.62	0.00	0.45	0.7466	0.90
Ethyl fluoroacetate	0.119	1.04	0.00	0.38	0.7643	1.65
Acetonitrile	0.237	0.90	0.07	0.32	0.4042	-0.22
Ammonia	0.139	0.39	0.16	0.56	0.2084	-1.96
Methylamine	0.250	0.35	0.16	0.58	0.3493	-1.64
Ethylamine	0.236	0.35	0.16	0.61	0.4902	-1.18
Propylamine	0.225	0.35	0.16	0.61	0.6311	-0.54
Butylamine	0.224	0.35	0.16	0.61	0.7720	0.11
Isopentylamine	0.194	0.32	0.16	0.63	0.9129	0.30
Hexylamine	0.197	0.35	0.16	0.61	1.0538	1.20
Heptylamine	0.197	0.35	0.16	0.61	1.1947	1.30
Dimethylamine	0.189	0.30	0.08	0.66	0.4902	-1.22
Diethylamine	0.154	0.30	0.08	0.69	0.7720	-0.28

Dipropylamine	0.124	0.30	0.08	0.69	1.0538	0.95
Diisobutylamine	0.046	0.24	0.08	0.69	1.3356	2.52
Trimethylamine	0.140	0.20	0.00	0.67	0.6311	-0.34
Triethylamine	0.101	0.15	0.00	0.79	1.0538	0.80
Nitrocyclohexane	0.441	0.97	0.00	0.31	1.0190	2.00
Formamide	0.468	1.30	0.62	0.6	0.3650	-2.85
Acetamide	0.460	1.30	0.54	0.68	0.5059	-2.60
Proprionamide	0.440	1.30	0.55	0.68	0.6468	-1.89
Butanamide	0.420	1.30	0.56	0.68	0.7877	-1.24
N,N-Dimethylformamide	0.367	1.31	0.00	0.74	0.6468	-1.62
Acrylamide	0.530	1.30	0.58	0.63	0.6038	-1.55
2,2,2-Trichloroacetamide	0.710	0.63	0.47	0.56	0.8731	1.08
Urea	0.501	1.49	0.83	0.90	0.4648	-3.33
Tetraethylurea	0.274	1.00	0.00	1.04	1.5920	1.04
Ethyl carbamate	0.290	0.85	0.35	0.64	0.7055	-0.19
Formic acid	0.300	0.79	0.72	0.34	0.3239	-0.52
Acetic acid	0.265	0.65	0.61	0.44	0.4648	-0.30
Propanoic acid	0.233	0.65	0.60	0.45	0.6057	0.13
Butanoic acid	0.210	0.62	0.60	0.45	0.7466	0.66
Pentanoic acid	0.205	0.60	0.60	0.45	0.8875	1.24
2,2-Dimethylpropanoic acid	0.170	0.54	0.60	0.50	0.8875	1.51
Hexanoic acid	0.174	0.60	0.60	0.45	1.0284	1.95
Heptanoic acid	0.149	0.60	0.60	0.45	1.1693	2.26
Propenoic acid	0.357	0.60	0.60	0.39	0.5627	0.36

Fluoroacetic acid	0.230	1.08	0.81	0.34	0.4825	-0.27
Chloroacetic acid	0.373	1.08	0.74	0.36	0.5870	0.41
Dichloroacetic acid	0.481	1.20	0.90	0.27	0.7100	1.24
Trichloroacetic acid	0.589	1.33	0.95	0.28	0.8320	1.57
Succinic acid	0.370	1.36	0.85	0.70	0.8210	-0.87
Peracetic acid	0.305	0.53	0.53	0.53	0.5235	-0.27
Methanol	0.278	0.44	0.43	0.47	0.3082	-0.85
Ethanol	0.246	0.42	0.37	0.48	0.4491	-0.58
Propan-1-ol	0.236	0.42	0.37	0.48	0.5900	0.28
Propan-2-ol	0.212	0.36	0.33	0.56	0.5900	-0.19
Butan-1-ol	0.224	0.42	0.37	0.48	0.7309	0.61
2-Methylpropan-1-ol	0.217	0.39	0.37	0.48	0.7309	0.84
2-Methylpropan-2-ol	0.180	0.30	0.31	0.60	0.7309	0.34
Pentan-1-ol	0.219	0.42	0.37	0.48	0.8718	1.20
Pentan-2-ol	0.195	0.36	0.33	0.56	0.8718	0.89
Pentan-3-ol	0.218	0.36	0.33	0.56	0.8718	0.96
2-Methylbutan-1-ol	0.219	0.39	0.37	0.48	0.8718	1.13
3-Methylbutan-1-ol	0.192	0.39	0.37	0.48	0.8718	1.28
2-Methylbutan-2-ol	0.194	0.30	0.31	0.60	0.8718	0.64
3-Methylbutan-2-ol	0.194	0.33	0.33	0.56	0.8718	0.94
2,2-Dimethylpropan-1-ol	0.220	0.36	0.37	0.53	0.8718	1.21
Hexan-1-ol	0.210	0.42	0.37	0.48	1.0127	1.80
Hexan-2-ol	0.187	0.36	0.33	0.56	1.0127	1.58
2-Methylpentan-2-ol	0.169	0.30	0.31	0.60	1.0127	1.16

4-Methylpentan-2-ol	0.167	0.33	0.33	0.56	1.0127	1.47
3-Methylpentan-3-ol	0.210	0.30	0.31	0.60	1.0127	1.10
3,3-Dimethylbutan-2-ol	0.193	0.30	0.33	0.56	1.0127	1.56
Heptan-1-ol	0.211	0.42	0.37	0.48	1.1536	2.40
2-Methylhexan-2-ol	0.163	0.30	0.31	0.60	1.1536	1.79
3-Ethylpentan-3-ol	0.234	0.30	0.31	0.60	1.1536	1.63
Octan-1-ol	0.199	0.42	0.37	0.48	1.2950	2.91
Octan-2-ol	0.158	0.36	0.33	0.56	1.2950	2.87
Cyclopentanol	0.427	0.54	0.32	0.56	0.7630	0.74
Cyclohexanol	0.460	0.54	0.32	0.57	0.9040	0.95
Cycloheptanol	0.513	0.54	0.32	0.58	1.0450	1.22
Cyclooctanol	0.566	0.54	0.32	0.58	1.1859	1.70
Prop-2-en-1-ol	0.342	0.46	0.38	0.48	0.5470	-0.12
2-Methoxyethanol	0.269	0.50	0.30	0.84	0.6487	-1.21
2-Ethoxyethanol	0.237	0.52	0.31	0.81	0.7896	-0.70
Propan-1,2-diol	0.373	0.90	0.58	0.80	0.6487	-1.74
Propan-1,3-diol	0.397	0.91	0.77	0.85	0.6487	-2.00
Butan-1,3-diol	0.377	0.90	0.70	0.83	0.7896	-1.38
dl-Butan-2,3-diol	0.341	0.93	0.61	0.88	0.7896	-1.54
Butan-1,4-diol	0.395	0.93	0.72	0.90	0.7986	-1.72
Pentan-1,5-diol	0.388	0.95	0.72	0.91	0.9305	-1.26
Hexan-1,6-diol	0.385	0.95	0.75	0.92	1.0714	-0.92
Decan-1,10-diol	0.370	0.95	0.75	0.92	1.6350	1.32
Glycerol	0.512	0.90	0.70	1.14	0.7074	-3.18

Erythritol	0.620	1.20	0.70	1.40	0.9070	-4.00
2-Aminoethanol	0.458	0.70	0.52	0.90	0.5489	-2.89
Hydrogen sulfide	0.350	0.37	0.08	0.07	0.2721	0.95
Thiourea	0.840	0.82	0.77	0.87	0.5696	-2.20
Dimethyl methanephosphonate	0.220	0.80	0.00	1.05	0.9120	-1.49
Dimethyl dichlorovinylphosphon	1.224	1.02	0.00	0.92	1.2547	1.36
Trichlorfon	1.039	1.52	0.29	1.19	1.4788	-0.29
Tetracaine	1.120	0.92	0.34	1.33	2.2585	3.04
Benzene	0.610	0.52	0.00	0.14	0.7164	2.45
o-Xylene	0.663	0.56	0.00	0.16	0.9982	3.43
m-Xylene	0.623	0.52	0.00	0.16	0.9982	3.46
Phenanthrene	2.055	1.29	0.00	0.29	1.4544	4.84
1,3-Dichlorobenzene	0.847	0.73	0.00	0.02	0.9612	3.77
1,4-Dichlorobenzene	0.825	0.75	0.00	0.02	0.9612	3.79
Iodobenzene	1.188	0.82	0.00	0.12	0.9746	3.60
Methylphenylether	0.708	0.75	0.00	0.29	0.9160	2.39
1,2-Dimethoxybenzene	0.832	0.97	0.00	0.65	1.1160	1.83
Benzaldehyde	0.820	1.00	0.00	0.39	0.8730	1.51
3-Methoxybenzaldehyde	0.921	1.20	0.00	0.48	1.0726	2.06
4-Methoxybenzaldehyde	0.920	1.35	0.00	0.47	1.0726	1.74
3,4-Dimethoxybenzaldehyde	1.020	1.60	0.00	0.74	1.2722	1.10
Acetophenone	0.818	1.01	0.00	0.48	1.0139	1.62
3-Methoxyacetophenone	0.902	1.56	0.00	0.53	1.2135	2.14
4-Methoxyacetophenone	0.916	1.58	0.00	0.53	1.2135	2.15

1,4-Benzoquinone	0.750	0.62	0.00	0.76	0.7908	-0.51
Benzonitrile	0.742	1.11	0.00	0.33	0.8711	1.66
Aniline	0.955	0.96	0.26	0.50	0.8162	0.64
4-Chloroaniline	1.060	1.13	0.30	0.35	0.9390	1.66
2-Nitroaniline	1.180	1.37	0.30	0.36	0.9904	1.95
3-Nitroaniline	1.200	1.71	0.40	0.35	0.9904	1.19
4-Nitroaniline	1.220	1.83	0.45	0.38	0.9904	1.48
Ethyl 4-aminobenzoate	1.034	1.20	0.32	0.76	1.3133	0.87
o-Phenylenediamine	1.260	1.40	0.24	0.73	0.9160	-0.06
2-Nitrotoluene	0.866	1.11	0.00	0.28	1.0315	2.65
4-Nitrotoluene	0.870	1.11	0.00	0.28	1.0315	2.53
1,2-Dinitrobenzene	1.170	1.70	0.00	0.38	1.0648	1.61
1,3-Dinitrobenzene	1.150	1.60	0.00	0.47	1.0648	1.45
1,4-Dinitrobenzene	1.130	1.63	0.00	0.46	1.0648	1.51
Benzamide	0.990	1.50	0.49	0.67	0.9728	-0.22
Acetanilide	0.900	1.39	0.48	0.67	1.1137	0.48
Phthalimide	1.183	2.09	0.40	0.42	1.0208	1.03
Procaine	1.140	1.67	0.32	1.36	1.9767	1.80
Benzoic acid	0.730	0.90	0.59	0.40	0.9317	1.30
2-Chlorobenzoic acid	0.840	0.90	0.70	0.43	1.0541	2.14
4-Chlorobenzoic acid	0.840	0.97	0.63	0.28	1.0541	1.62
2-Nitrobenzoic acid	0.990	1.10	0.72	0.65	1.1059	1.59
3-Nitrobenzoic acid	0.990	1.08	0.76	0.52	1.1059	1.31
2-Aminobenzoic acid	1.075	1.63	0.69	0.47	1.0315	1.43

4-Aminobenzoic acid	1.075	1.57	0.90	0.65	1.0315	0.88
Acetylsalicylic acid	0.781	0.80	0.49	1.00	1.2879	1.15
Phenylacetic acid	0.730	0.97	0.60	0.61	1.0726	1.57
Phthalic acid	0.850	1.60	0.82	0.75	1.1470	0.20
Phenol	0.805	0.89	0.60	0.30	0.7751	1.12
2-Chlorophenol	0.853	0.88	0.32	0.31	0.8975	1.58
2,4-Dichlorophenol	0.960	0.84	0.53	0.19	1.0199	2.30
2-Methoxyphenol	0.837	0.91	0.22	0.52	0.9747	1.36
3-Methoxyphenol	0.879	1.17	0.59	0.39	0.9747	2.08
4-Methoxyphenol	0.900	1.17	0.57	0.48	0.9747	1.47
3-Hydroxybenzaldehyde	0.990	1.37	0.74	0.40	0.9317	1.39
4-Hydroxybenzaldehyde	1.010	1.54	0.85	0.37	0.9317	1.10
3-Hydroxyacetophenone	0.980	1.35	0.72	0.55	1.0726	1.33
4-Hydroxyacetophenone	1.010	1.51	0.76	0.54	1.0726	1.12
3-Aminophenol	1.130	1.15	0.65	0.78	0.8749	0.11
2-Nitrophenol	1.015	1.05	0.05	0.37	0.9493	2.18
3-Nitrophenol	1.050	1.57	0.79	0.23	0.9493	2.20
4-Nitrophenol	1.070	1.72	0.82	0.26	0.9493	1.28
2,4-Dinitrophenol	1.200	1.49	0.09	0.56	1.1235	1.40
2-Hydroxybenzoic acid	0.890	0.84	0.71	0.38	0.9904	2.37
3-Hydroxybenzoic acid	0.910	0.88	0.86	0.58	0.9904	1.32
4-Hydroxybenzoic acid	0.930	0.90	0.81	0.56	0.9904	1.42
Catechol	0.970	1.10	0.88	0.47	0.8338	1.04
Resorcinol	0.980	1.11	1.09	0.52	0.8338	0.62

Hydroquinone	1.063	1.27	1.06	0.57	0.8338	0.46
2-Hydroxybenzamide	1.140	1.50	0.59	0.53	1.0315	0.96
3-Hydroxy-4-methoxy benzaldehyde	1.040	1.37	0.27	0.72	1.1313	0.82
2-Methoxy-4-methylphenol	0.850	0.91	0.15	0.59	1.1156	2.52
3,4,5-Trihydroxybenzoic acid	1.290	1.45	1.62	0.85	1.1078	-0.30
4-Hydroxyacetanilide	1.060	1.63	1.04	0.86	1.1724	-0.54
1,2,3-Trihydroxybenzene	1.165	1.35	1.35	0.62	0.8925	0.23
1,3,5-Trihydroxybenzene	1.355	1.12	1.40	0.82	0.8925	-0.35
2,6-Dimethoxyphenol	0.840	1.41	0.13	0.71	1.1743	0.74
Benzyl alcohol	0.803	0.87	0.39	0.56	0.9160	0.65
2-Hydroxybenzyl alcohol	0.998	1.14	0.62	0.72	0.9747	0.00
2-Phenylethanol	0.811	0.86	0.31	0.65	1.0569	1.18
Chloramphenicol	1.851	1.70	0.60	1.75	2.0728	0.62
Phenylthiourea	1.250	1.72	0.49	0.78	1.1774	0.23
N-Methylbenzenesulfonamide	1.100	1.50	0.30	0.82	1.2380	0.80
N,N-Dimethylbenzene sulfonamide	1.100	1.50	0.00	0.86	1.3789	1.16
2-Furaldehyde	0.690	1.13	0.00	0.45	0.6929	0.43
Paraldehyde	0.136	0.68	0.00	0.68	1.0215	0.95
Pyridine	0.631	0.84	0.00	0.47	0.6753	0.08
2-Aminopyridine	0.980	1.10	0.32	0.59	0.7751	-0.11
3-Pyridinecarboxylic acid amid	1.010	1.09	0.63	1.00	0.9317	-1.72
Nicotine	0.865	0.75	0.00	1.14	1.3710	1.08

Cocaine	1.355	1.92	0.00	1.50	2.2977	2.14
Atropine	1.188	1.94	0.36	1.64	2.2820	0.61
8-Hydroxyquinoline	1.450	1.08	0.02	0.58	1.1030	0.88
Antipyrine	1.320	1.50	0.00	1.48	1.5502	-1.14
Benzotriazole	1.473	1.70	0.62	0.48	0.8642	0.58
Purine	1.320	1.58	0.56	0.78	0.8231	-1.10
Scopolamine	1.686	2.03	0.30	1.88	2.2321	0.28
5-Fluorouracil	0.720	0.84	0.57	1.02	0.7693	-1.00
Theobromine	1.500	1.60	0.50	1.38	1.2223	-1.15
Caffeine	1.500	1.63	0.00	1.24	1.3632	-1.30
Guanine	1.800	1.60	0.97	1.20	0.9816	-1.70
Morphine	1.790	1.25	0.42	1.86	2.0648	-0.68
Codeine	1.780	1.95	0.33	1.78	2.2057	0.19
Heroin	1.530	2.21	0.00	1.92	2.6598	0.70
Hydromorphone	1.730	1.58	0.39	1.75	2.0648	-0.43
Nitrazepam	2.300	1.53	0.33	1.43	1.9848	1.57
Progesterone	1.450	3.29	0.00	1.14	2.6215	2.78
Testosterone	1.540	2.59	0.32	1.19	2.3827	1.94
Deoxycorticosterone	1.740	3.50	0.14	1.31	2.6802	1.72
Corticosterone	1.860	3.43	0.40	1.63	2.7389	0.66
Cortisone	1.960	3.50	0.36	1.87	2.7546	0.15
Hydrocortisone	2.030	3.49	0.71	1.90	2.7976	0.21
Prednisolone	2.210	3.10	0.71	1.92	2.7546	0.05
Hydrocortisone-21-acetate	1.890	2.88	0.46	2.16	3.0951	1.42

Hydrocortisone-21-propanoate	1.870	2.90	0.46	2.16	3.2360	1.98
Hydrocortisone-21-butanoate	1.850	2.94	0.46	2.16	3.3769	2.39
Hydrocortisone-21-pentanoate	1.830	2.98	0.46	2.16	3.5178	2.96
Hydrocortisone-21-hexanoate	1.810	3.02	0.46	2.16	3.6587	3.56
Hydrocortisone-21-heptanoate	1.790	3.03	0.46	2.16	3.7996	4.15
Estrone	1.730	2.05	0.50	1.08	2.1558	1.95
Estratriol	1.970	1.74	1.06	1.63	2.2575	0.89
Cortisone-21-acetate	1.820	3.11	0.21	2.13	3.0521	1.40
Dexamethasone	2.040	3.51	0.71	1.92	2.9132	0.82
Phenylurea	1.110	1.40	0.77	0.77	1.0726	0.04
5,5-Diphenylhydantoin	1.713	2.19	0.85	1.00	1.8693	1.48
Benzylamine	0.829	0.77	0.15	0.72	0.9570	0.37
N-Methylbenzylamine	0.797	0.74	0.00	0.74	1.0980	0.78
N-Ethyl-3-phenylpropylamine	0.750	0.82	0.08	0.89	1.5207	1.80
N-Nitrosodimethylamine	0.393	1.19	0.00	0.56	0.6057	-0.62
N-Nitrosodiethylamine	0.345	1.08	0.00	0.59	0.8875	0.33
N-Nitrosodiisopropylamine	0.300	0.95	0.00	0.67	1.1693	1.28
N-Nitrosodibutylamine	0.300	0.98	0.00	0.64	1.4511	2.24
N-Nitrosodiisobutylamine	0.300	0.88	0.00	0.74	1.4511	2.04
N-Nitrosomethylethylamine	0.374	1.10	0.00	0.59	0.7466	-0.25
N-Nitrosomethylbutylamine	0.340	1.07	0.00	0.60	1.0284	0.65
N-Nitrosomethylpentylamine	0.320	1.05	0.00	0.59	1.1693	1.43
N-Nitrosoethylisopropylamine	0.340	0.98	0.00	0.70	1.0284	0.85
N-Nitrosoethylbutylamine	0.320	1.00	0.00	0.62	1.1693	1.41

N-Nitrosopropylbutylamine	0.310	1.02	0.00	0.63	1.3102	1.84
N-Nitrosopiperidine	0.592	1.33	0.00	0.54	0.9198	0.49
N-Nitrosomorpholine	0.600	1.51	0.00	0.65	0.8376	-0.37
N-Nitrosomethylbenzylamine	0.990	1.37	0.00	0.64	1.2135	1.53

Table S2 Solute descriptors, and values of log P for partition between water and dry diethyl ether.

Solute	**E**	**S**	**A**	**B**	**V**	log P
Argon	0.000	0.00	0.00	0.00	0.1900	1.25
Radon	0.000	0.00	0.00	0.00	0.3840	1.76
Hydrogen	0.000	0.00	0.00	0.00	0.1086	0.88
Oxygen	0.000	0.00	0.00	0.00	0.1830	1.16
Nitrogen	0.000	0.00	0.00	0.00	0.2222	1.25
Carbon monoxide	0.000	0.00	0.00	0.04	0.2220	1.22
Methane	0.000	0.00	0.00	0.00	0.2495	1.48
Ethane	0.000	0.00	0.00	0.00	0.3904	2.19
2-Methylpropane	0.000	0.00	0.00	0.00	0.6722	3.41
Octane	0.000	0.00	0.00	0.00	1.2358	6.03
Cyclohexane	0.305	0.10	0.00	0.00	0.8454	3.97
Dichloromethane	0.387	0.57	0.10	0.05	0.4943	1.88
Tetrachloromethane	0.458	0.38	0.00	0.00	0.7391	3.28
1,2-Dichloroethane	0.416	0.64	0.10	0.11	0.6352	1.95
1,1,1-Trichloroethane	0.369	0.41	0.00	0.09	0.7576	2.89
1-Chlorobutane	0.210	0.40	0.00	0.10	0.7946	3.09
2-Chloro-2-methylpropane	0.142	0.30	0.00	0.03	0.7946	3.28
2-Bromo-2-methylpropane	0.305	0.29	0.00	0.07	0.8472	3.42
Iodoethane	0.640	0.40	0.00	0.15	0.6486	2.22
Diethylether	0.041	0.25	0.00	0.45	0.7309	1.35
Ethyl-tert-butylether	0.000	0.19	0.00	0.45	1.0130	1.98

1,4-Dioxane	0.329	0.75	0.00	0.64	0.6810	-0.32
Propanone	0.179	0.70	0.04	0.49	0.5470	-0.26
Butanone	0.166	0.70	0.00	0.51	0.6879	0.31
Acetonitrile	0.237	0.90	0.07	0.32	0.4042	-0.19
Trimethylamine	0.140	0.20	0.00	0.67	0.6311	-0.62
Triethylamine	0.101	0.15	0.00	0.79	1.0538	0.90
Nitromethane	0.313	0.95	0.06	0.31	0.4237	0.14
Methanol	0.278	0.44	0.43	0.47	0.3082	-1.26
Hexadecan-1-ol	0.151	0.42	0.37	0.48	2.4220	7.89
Octadecan-1-ol	0.145	0.42	0.37	0.48	2.7035	9.20
Toluene	0.601	0.52	0.00	0.14	0.8573	3.07
trans-Stilbene	1.450	1.05	0.00	0.34	1.5630	5.29
Biphenyl	1.360	0.99	0.00	0.26	1.3242	4.35
Naphthalene	1.340	0.92	0.00	0.20	1.0854	3.96
Anthracene	2.290	1.34	0.00	0.28	1.4544	4.94
Acenaphthene	1.604	1.05	0.00	0.22	1.2586	4.51
Fluoranthene	2.377	1.55	0.00	0.24	1.5846	5.64
Pyrene	2.808	1.71	0.00	0.28	1.5846	5.58
Hexafluorobenzene	0.088	0.65	0.00	0.00	0.8226	3.20
1,4-Dibromobenzene	1.150	0.86	0.00	0.04	1.0664	4.31
Benzil	1.445	1.59	0.00	0.62	1.6374	3.81
4-(Chloromethyl)nitrobenzene	1.080	1.35	0.00	0.35	1.1539	3.02
Benzoic acid	0.730	0.90	0.59	0.40	0.9317	1.83
2-Hydroxybenzoic acid	0.890	0.84	0.71	0.38	0.9904	2.09

Methyl 4-hydroxybenzoate	0.900	1.37	0.69	0.45	1.1313	1.73
Diphenylsulfone	1.570	2.15	0.00	0.70	1.6051	2.62
4-Hydroxybenzoic acid	0.930	0.90	0.81	0.56	0.9904	1.17
3-Nitrobenzoic acid	0.990	1.08	0.76	0.52	1.1059	1.76

Table S3 Solute descriptors and log P values for water to wet diisopropyl ether

Solute	**E**	**S**	**A**	**B^O**	**V**	log P
Vanilin	1.040	1.33	0.29	0.69	1.1313	0.60
1-Naphthylamine	1.670	1.26	0.20	0.57	1.1850	2.15
Formic acid	0.300	0.79	0.72	0.34	0.3239	-0.84
Estrone	1.800	1.77	0.86	1.10	2.1988	2.30
Water	0.000	0.45	0.82	0.35	0.1673	-2.00
Acetic acid	0.265	0.65	0.61	0.44	0.4648	-0.74
Resorcinol	0.980	1.11	1.09	0.52	0.8338	0.28
Estriol	1.970	1.74	1.06	1.63	2.2575	0.00
Pyruvic acid	0.364	0.89	0.43	0.69	0.6214	-1.22
Propanoic acid	0.233	0.65	0.60	0.45	0.6057	-0.09
2-Furaldehyde	0.690	1.50	0.00	0.44	0.6929	0.41
5-Methylfurfural	0.744	1.16	0.00	0.51	0.8339	0.63
Atropine	1.188	1.94	0.36	1.64	2.2820	-0.03
Dipropylnitrosoamine	0.318	1.00	0.00	0.63	1.1693	1.36
N-Nitrosomethylpropylamine	0.360	1.03	0.00	0.60	0.8875	0.24
Methylbutylnitrosoamine	0.340	1.08	0.00	0.59	1.0284	0.80
N-Nitrosoethylbutylamine	0.320	1.00	0.00	0.63	1.1693	1.07
N-Nitrosopropylbutylamine	0.310	0.99	0.00	0.64	1.3102	1.92
N-Nitrosodibutylamine	0.300	0.98	0.00	0.65	1.4511	2.52
N-Nitrosoethylisopropylamine	0.340	1.02	0.00	0.65	1.0284	0.69
N-Nitrosodiisopropylamine	0.300	0.95	0.00	0.67	1.1693	1.19
N-Nitrosomethyl-t-	0.340	1.04	0.00	0.65	1.0284	0.55

butylamine						
N-Nitrosodiisobutylamine	0.300	0.78	0.00	0.75	1.4511	2.24
N-Nitrosodiethylamine	0.345	1.08	0.00	0.59	0.8875	0.22
N-Nitrosomethylethylamine	0.374	1.12	0.00	0.58	0.7466	-0.41
N-Nitrosodimethylamine	0.393	1.19	0.00	0.55	0.6057	-0.87
Estradiol	1.800	1.77	0.86	1.10	2.1988	2.30
Butylamine	0.224	0.35	0.16	0.61	0.7720	-0.04
2-Naphthylamine	1.670	1.28	0.22	0.55	1.1850	2.15
Cyclohexylamine	0.326	0.56	0.16	0.58	0.9452	0.88
Caffeine	1.500	1.63	0.00	1.29	1.3632	-1.19
Valeric acid	0.205	0.60	0.60	0.45	0.8875	1.05
Diethylamine	0.154	0.30	0.08	0.69	0.7720	-0.21
Cocaine	1.355	1.92	0.00	1.50	2.2977	1.19
Butanoic acid	0.210	0.62	0.60	0.45	0.7466	0.24
Ethyl 4-aminobenzoate	1.034	1.20	0.32	0.76	1.3133	0.87
Heptanoic acid	0.149	0.60	0.60	0.45	1.1693	2.29
Catechol	0.970	1.10	0.88	0.47	0.8338	0.62
Phenol	0.805	0.89	0.60	0.30	0.7751	1.12
Hydroquinone	1.063	1.27	1.06	0.57	0.8338	-0.13
Lactic acid	0.343	0.63	0.69	0.67	0.6644	-1.54
Hexanoic acid	0.174	0.60	0.60	0.45	1.0284	1.48
Trimethylamine	0.140	0.20	0.00	0.67	0.6311	-0.36
Glycolic acid	0.326	0.67	0.69	0.65	0.5235	-1.70
4-Hydroxybenzaldehyde	1.010	1.54	0.85	0.37	0.9317	0.84

Pyridine	0.631	0.84	0.00	0.47	0.6753	0.13

Table S4 Solute descriptors and log P values for water to dry THF

Solute	**E**	**S**	**A**	**B**	**V**	log P
Helium	0.000	0.00	0.00	0.00	0.0680	0.39
Neon	0.000	0.00	0.00	0.00	0.0850	0.47
Argon	0.000	0.00	0.00	0.00	0.1900	0.91
Krypton	0.000	0.00	0.00	0.00	0.2460	1.14
Xenon	0.000	0.00	0.00	0.00	0.3290	1.55
Hydrogen	0.000	0.00	0.00	0.00	0.1086	0.65
Deuterium	0.000	0.00	0.00	0.00	0.1100	0.65
Oxygen	0.000	0.00	0.00	0.00	0.1830	0.90
Nitrogen	0.000	0.00	0.00	0.00	0.2222	0.97
Carbon dioxide	0.000	0.28	0.05	0.10	0.2809	0.90
Sulfur dioxide	0.370	0.66	0.28	0.10	0.3465	1.35
Methane	0.000	0.00	0.00	0.00	0.2495	1.28
Ethane	0.000	0.00	0.00	0.00	0.3904	1.96
Pentane	0.000	0.00	0.00	0.00	0.8131	4.03
Hexane	0.000	0.00	0.00	0.00	0.9540	4.66
2-Methylpentane	0.000	0.00	0.00	0.00	0.9540	4.54
Heptane	0.000	0.00	0.00	0.00	1.0949	5.30
2,4-Dimethylpentane	0.000	0.00	0.00	0.00	1.0949	5.14
Octane	0.000	0.00	0.00	0.00	1.2358	5.96
2,5-Dimethylhexane	0.000	0.00	0.00	0.00	1.2358	5.55
2,2,4-Trimethylpentane	0.000	0.00	0.00	0.00	1.2358	5.53
2,3,4-Trimethylpentane	0.000	0.00	0.00	0.00	1.2358	5.47

Nonane	0.000	0.00	0.00	0.00	1.3767	6.64
Cyclohexane	0.305	0.10	0.00	0.00	0.8454	3.69
Methylcyclohexane	0.244	0.06	0.00	0.00	0.9863	4.67
Ethylcyclohexane	0.263	0.10	0.00	0.00	1.1272	5.50
Ethene	0.107	0.10	0.00	0.07	0.3474	1.54
Tetrafluoromethane	0.550	-0.25	0.00	0.00	0.3203	1.55
Dichloromethane	0.387	0.57	0.10	0.05	0.4943	2.17
Trichloromethane	0.425	0.49	0.15	0.02	0.6167	2.97
Tetrachloromethane	0.458	0.38	0.00	0.00	0.7391	3.47
1,2-Dichloroethane	0.416	0.64	0.10	0.11	0.6352	2.36
1,1,1-Trichloroethane	0.369	0.41	0.00	0.09	0.7576	3.05
2-Chloro-2-methylpropane	0.142	0.30	0.00	0.03	0.7946	3.30
Tetrachloroethene	0.639	0.44	0.00	0.00	0.8370	4.05
2-Bromo-2-methylpropane	0.305	0.29	0.00	0.07	0.8472	3.44
$CF_3CHBrCl$	0.102	0.38	0.15	0.05	0.7410	3.59
1,1,2-Trifluorotrichloroethane	0.010	0.13	0.00	0.00	0.8107	3.77
1,2-Difluorotetrachloroethane	0.227	0.33	0.00	0.02	0.9154	4.17
Diethylether	0.041	0.25	0.00	0.45	0.7309	1.40
Tetrahydrofuran	0.289	0.52	0.00	0.48	0.6223	0.59
1,4-Dioxane	0.329	0.75	0.00	0.64	0.6810	0.03
Propionaldehyde	0.196	0.65	0.00	0.45	0.5470	0.28
Butyraldehyde	0.187	0.65	0.00	0.45	0.6879	0.91
Propanone	0.179	0.70	0.04	0.49	0.5470	0.06
Butanone	0.166	0.70	0.00	0.51	0.6879	0.61

Ethyl acetate	0.106	0.62	0.00	0.45	0.7466	1.18
Methyl propanoate	0.128	0.60	0.00	0.45	0.7466	1.11
Acetonitrile	0.237	0.90	0.07	0.32	0.4042	0.30
Triethylamine	0.101	0.15	0.00	0.79	1.0538	1.01
Nitromethane	0.313	0.95	0.06	0.31	0.4237	0.72
N,N-Dimethylformamide	0.367	1.31	0.00	0.74	0.6468	-1.34
Methanol	0.278	0.44	0.43	0.47	0.3082	-0.90
Ethanol	0.246	0.42	0.37	0.48	0.4491	-0.33
Propan-1-ol	0.236	0.42	0.37	0.48	0.5900	0.24
Propan-2-ol	0.212	0.36	0.33	0.56	0.5900	-0.04
Sulfur hexafluoride	0.600	-0.20	0.00	0.00	0.4643	2.19
Tetramethyltin	0.100	0.08	0.00	0.05	1.0431	4.20
Benzene	0.610	0.52	0.00	0.14	0.7164	2.85
Toluene	0.601	0.52	0.00	0.14	0.8573	3.34
Ethylbenzene	0.613	0.51	0.00	0.15	0.9982	3.85
Propylbenzene	0.604	0.50	0.00	0.15	1.1391	4.48
Isopropylbenzene	0.602	0.49	0.00	0.16	1.1391	4.55
tert-Butylbenzene	0.619	0.49	0.00	0.18	1.2800	4.77
trans-Stilbene	1.450	1.05	0.00	0.34	1.5630	5.85
Naphthalene	1.340	0.92	0.00	0.20	1.0854	4.29
Acenaphthene	1.604	1.05	0.00	0.22	1.2586	4.87
Anthracene	2.290	1.34	0.00	0.28	1.4544	5.68
Phenanthrene	2.055	1.29	0.00	0.29	1.4544	5.62
Pyrene	2.808	1.71	0.00	0.28	1.5846	6.33

Fluorobenzene	0.477	0.57	0.00	0.10	0.7341	3.03
Hexafluorobenzene	0.088	0.66	0.00	0.00	0.8226	3.37
Chlorobenzene	0.718	0.65	0.00	0.07	0.8388	3.61
1,2-Dichlorobenzene	0.872	0.78	0.00	0.04	0.9612	4.21
Hexachlorobenzene	1.490	0.99	0.00	0.00	1.4508	6.54
Bromobenzene	0.882	0.73	0.00	0.09	0.8914	3.66
Iodobenzene	1.188	0.82	0.00	0.12	0.9746	4.13
Benzil	1.445	1.59	0.00	0.62	1.6374	4.39
2-Hydroxybenzoic acid	0.890	0.84	0.71	0.38	0.9904	2.55
Methyl 4-hydroxybenzoate	0.900	1.37	0.69	0.45	1.1313	2.30
4-Hydroxyacetanilide	1.060	1.63	1.04	0.86	1.1724	0.91
Diphenylsulfone	1.570	2.15	0.00	0.70	1.6051	3.52
Piperidine	0.422	0.46	0.13	0.68	0.8043	0.08
p-Chloro-1-phenyl-3,3-dimethylurea	1.140	1.50	0.47	0.78	1.4768	2.44
Benzoic acid	0.730	0.90	0.59	0.40	0.9317	2.18
4-Hydroxybenzoic acid	0.930	0.90	0.81	0.56	0.9904	1.56

Table S5 Solute descriptors and log P values for partition from water into dry dioxane

Solute	**E**	**S**	**A**	**B**	**V**	Log P
Helium	0.000	0.00	0.00	0.00	0.0680	0.22
Neon	0.000	0.00	0.00	0.00	0.0850	0.31
Argon	0.000	0.00	0.00	0.00	0.1900	0.69
Krypton	0.000	0.00	0.00	0.00	0.2460	0.91
Xenon	0.000	0.00	0.00	0.00	0.3290	1.28
Hydrogen	0.000	0.00	0.00	0.00	0.1086	0.43
Deuterium	0.000	0.00	0.00	0.00	0.1100	0.48
Oxygen	0.000	0.00	0.00	0.00	0.1830	0.69
Nitrogen	0.000	0.00	0.00	0.00	0.2222	0.76
Carbon dioxide	0.000	0.28	0.05	0.10	0.2809	0.93
Sulfur dioxide	0.370	0.66	0.28	0.10	0.3465	0.97
Methane	0.000	0.00	0.00	0.00	0.2495	1.06
Ethane	0.000	0.00	0.00	0.00	0.3904	1.71
Propane	0.000	0.00	0.00	0.00	0.5313	2.35
Butane	0.000	0.00	0.00	0.00	0.6722	3.08
Pentane	0.000	0.00	0.00	0.00	0.8131	3.59
2,2-Dimethylpropane	0.000	0.00	0.00	0.00	0.8131	3.42
Hexane	0.000	0.00	0.00	0.00	0.9540	4.15
2-Methylpentane	0.000	0.00	0.00	0.00	0.9540	4.03
Heptane	0.000	0.00	0.00	0.00	1.0949	4.75
2,4-Dimethylpentane	0.000	0.00	0.00	0.00	1.0949	4.56
Octane	0.000	0.00	0.00	0.00	1.2358	5.35

2,5-Dimethylhexane	0.000	0.00	0.00	0.00	1.2358	4.94
2,3,4-Trimethylpentane	0.000	0.00	0.00	0.00	1.2358	4.90
Nonane	0.000	0.00	0.00	0.00	1.3767	5.99
Cyclopropane	0.408	0.23	0.00	0.00	0.4227	1.97
Cyclohexane	0.305	0.10	0.00	0.00	0.8454	3.55
Methylcyclohexane	0.244	0.06	0.00	0.00	0.9863	4.25
Ethylcyclohexane	0.263	0.10	0.00	0.00	1.1272	4.97
Ethene	0.107	0.10	0.00	0.07	0.3474	1.37
Propene	0.103	0.08	0.00	0.07	0.4883	1.97
Buta-1,3-diene	0.320	0.23	0.00	0.10	0.5862	1.94
Ethyne	0.190	0.60	0.06	0.04	0.3044	1.25
Propyne	0.183	0.25	0.12	0.14	0.4453	1.45
But-1-yne	0.178	0.25	0.12	0.10	0.5862	2.08
But-1-en-3-yne	0.327	0.26	0.18	0.01	0.5432	2.38
Tetrafluoromethane	0.550	-0.25	0.00	0.00	0.3203	1.27
Dichloromethane	0.387	0.57	0.10	0.05	0.4943	2.04
Trichloromethane	0.425	0.49	0.15	0.02	0.6167	2.61
Tetrachloromethane	0.458	0.38	0.00	0.00	0.7391	3.23
1,2-Dichloroethane	0.416	0.64	0.10	0.11	0.6352	2.34
2-Chloro-2-methylpropane	0.142	0.30	0.00	0.03	0.7946	3.26
Trichloroethene	0.524	0.37	0.08	0.03	0.7146	3.28
Tetrachloroethene	0.639	0.44	0.00	0.00	0.8370	3.81
1,2-Dibromoethane	0.747	0.76	0.10	0.17	0.7400	2.57
2-Bromo-2-methylpropane	0.305	0.29	0.00	0.07	0.8472	3.39

CF3CHBrCl	0.102	0.38	0.15	0.05	0.7410	3.15
1,2-Difluorotetrachloroethane	0.227	0.33	0.00	0.02	0.9154	3.91
Tetrahydropyran	0.296	0.49	0.00	0.48	0.7632	1.03
1,4-Dioxane	0.329	0.75	0.00	0.64	0.6810	0.06
Propanone	0.179	0.70	0.04	0.49	0.5470	0.05
Butanone	0.166	0.70	0.00	0.51	0.6879	0.56
Hexan-2-one	0.136	0.68	0.00	0.51	0.9697	1.76
4-Methylpentan-2-one	0.111	0.65	0.00	0.51	0.9697	1.66
Octan-2-one	0.108	0.68	0.00	0.51	1.2515	2.90
Ethyl acetate	0.106	0.62	0.00	0.45	0.7466	1.13
Acetonitrile	0.237	0.90	0.07	0.32	0.4042	0.36
Butylamine	0.224	0.35	0.16	0.61	0.7720	0.07
Triethylamine	0.101	0.15	0.00	0.79	1.0538	0.62
Nitromethane	0.313	0.95	0.06	0.31	0.4237	0.76
N,N-Dimethylformamide	0.367	1.31	0.00	0.74	0.6468	-1.21
Water	0.000	0.45	0.82	0.35	0.1673	-1.55
Methanol	0.278	0.44	0.43	0.47	0.3082	-0.93
Ethanol	0.246	0.42	0.37	0.48	0.4491	-0.51
Propan-1-ol	0.236	0.42	0.37	0.48	0.5900	-0.25
Propan-2-ol	0.212	0.36	0.33	0.56	0.5900	-0.28
Butan-2-ol	0.217	0.36	0.33	0.56	0.7309	0.67
Cyclopentanol	0.427	0.54	0.32	0.56	0.7630	0.61
2,2,2-Trifluoroethanol	0.015	0.60	0.57	0.25	0.5022	0.97
Sulfur hexafluoride	0.600	-0.20	0.00	0.00	0.4643	1.82

Carbon disulphide	0.876	0.26	0.00	0.03	0.4905	2.37
Tetraethylsilane	0.132	-0.22	0.00	0.13	1.4815	5.92
Tetramethyltin	0.100	0.08	0.00	0.05	1.0431	4.05
Tetraethyltin	0.010	0.12	0.00	0.10	1.6067	6.29
Ferrocene	1.350	0.85	0.00	0.20	1.1209	4.35
Benzene	0.610	0.52	0.00	0.14	0.7164	2.69
Toluene	0.601	0.52	0.00	0.14	0.8573	3.16
Ethylbenzene	0.613	0.51	0.00	0.15	0.9982	3.60
trans-Stilbene	1.450	1.05	0.00	0.34	1.5630	5.66
Biphenyl	1.360	0.99	0.00	0.26	1.3242	4.86
Naphthalene	1.340	0.92	0.00	0.20	1.0854	4.12
Acenaphthene	1.604	1.05	0.00	0.22	1.2586	4.72
Anthracene	2.290	1.34	0.00	0.28	1.4544	5.42
Phenanthrene	2.055	1.29	0.00	0.29	1.4544	5.51
Fluoranthene	2.377	1.55	0.00	0.24	1.5846	6.11
Pyrene	2.808	1.71	0.00	0.28	1.5846	6.05
Fluorobenzene	0.477	0.57	0.00	0.10	0.7341	2.85
Hexafluorobenzene	0.088	0.65	0.00	0.00	0.8226	3.17
Chlorobenzene	0.718	0.65	0.00	0.07	0.8388	3.42
1,2-Dichlorobenzene	0.872	0.78	0.00	0.04	0.9612	4.14
Hexachlorobenzene	1.490	1.00	0.00	0.00	1.4508	6.34
Benzyl chloride	0.821	0.86	0.00	0.14	0.9797	3.92
Bromobenzene	0.882	0.73	0.00	0.09	0.8914	3.66
Iodobenzene	1.188	0.82	0.00	0.12	0.9746	4.01

Benzil	1.445	1.59	0.00	0.62	1.6374	4.32
Acetanilide	0.900	1.39	0.48	0.67	1.1137	1.54
2-Hydroxybenzoic acid	0.890	0.84	0.71	0.38	0.9904	2.44
Methyl 4-hydroxybenzoate	0.900	1.37	0.69	0.45	1.1313	2.20
4-Hydroxyacetanilide	1.060	1.63	1.04	0.86	1.1724	0.05
Diphenylsulfone	1.570	2.15	0.00	0.70	1.6051	3.63
Pyridine	0.631	0.84	0.00	0.52	0.6753	0.73
Piperidine	0.422	0.46	0.13	0.68	0.8043	-0.12
Benzoic acid	0.730	0.90	0.59	0.40	0.9317	2.09
4-Hydroxybenzoic acid	0.930	0.90	0.81	0.56	0.9904	1.46
Morpholine	0.434	0.79	0.06	0.91	0.7221	-1.07

Table S6 Values of log K^W and **L** used in the correlation equations

Solute	Log K^W	**L**
Argon	-1.47	-0.688
Radon	-0.65	0.877
Hydrogen	-1.72	-1.200
Oxygen	-1.51	-0.723
Nitrogen	-1.80	-0.978
Carbon monoxide	-1.62	-0.836
Methane	-1.46	-0.323
Ethane	-1.34	0.492
2-Methylpropane	-1.70	1.409
Octane	-2.11	3.677
Cyclohexane	-0.90	2.964
Dichloromethane	0.96	2.019
Tetrachloromethane	-0.06	2.823
1,2-Dichloroethane	1.31	2.573
1,1,1-Trichloroethane	0.14	2.733
1-Chlorobutane	0.12	2.722
2-Chloro-2-methylpropane	-0.80	2.273
2-Bromo-2-methylpropane	-0.60	2.609
Iodoethane	0.54	2.573
Diethylether	1.17	2.015
1,4-Dioxane	3.71	2.892
"Acetaldehyde "	2.57	1.230
"Propionaldehyde "	2.52	1.815

"Propanone "	2.79	1.696
"Methyl acetate	2.30	1.911
"Ethyl acetate "	2.16	2.314
"Acetonitrile "	2.85	1.739
Ammonia	3.15	0.680
Methylamine	3.34	1.300
"Ethylamine "	3.30	1.677
"Propylamine "	3.22	2.141
"Butylamine "	3.11	2.618
"Hexylamine "	2.90	3.655
"Heptylamine "	2.78	4.166
Dimethylamine	3.15	1.600
"Diethylamine "	2.99	2.395
"Dipropylamine "	2.68	3.351
"Trimethylamine "	2.35	1.620
"Triethylamine "	2.36	3.040
Nitromethane	2.95	1.892
"Acetamide "	7.50	2.825
"N,N-Dimethylformamide "	5.73	3.173
Urea	10.00	3.320
"Formic acid "	5.25	1.400
"Acetic acid "	4.91	1.750
"Propanoic acid "	4.74	2.290
"Butanoic acid "	4.66	2.830

"Pentanoic acid "	4.52	3.380
"Hexanoic acid "	4.56	3.920
Methanol	3.74	0.970
Ethanol	3.67	1.485
"Propan-1-ol "	3.56	2.031
"Propan-2-ol "	3.48	1.764
"Butan-1-ol "	3.46	2.601
"2-Methylpropan-1-ol "	3.30	2.413
"2-Methylpropan-2-ol "	3.28	1.963
"Pentan-1-ol "	3.35	3.106
"Pentan-2-ol "	3.22	2.840
"Pentan-3-ol "	3.19	2.860
"2-Methylbutan-1-ol "	3.24	3.011
"3-Methylbutan-1-ol "	3.24	3.011
"2-Methylbutan-2-ol "	3.25	2.630
"Hexan-1-ol "	3.23	3.610
"Hexan-2-ol "	3.07	3.340
"2-Methylpentan-2-ol "	2.88	3.081
"4-Methylpentan-2-ol "	2.74	3.179
"3-Methylpentan-3-ol "	3.08	3.277
"Heptan-1-ol "	3.09	4.115
Octan-1-ol	3.00	4.619
Hexadecan-1-ol	2.02	8.671
Octadecan-1-ol	1.78	9.680

"Cyclopentanol "	4.03	3.241
"Cyclohexanol "	4.01	3.758
"Cycloheptanol "	4.02	4.407
"Prop-2-en-1-ol "	3.69	1.951
"2-Methoxyethanol "	4.96	2.490
2-Ethoxyethanol	4.91	2.815
Glycerol	6.23	3.200
Hydrogen sulfide	0.40	0.659
Benzene	0.63	2.786
Toluene	0.65	3.325
o-Xylene	0.66	3.939
m-Xylene	0.61	3.839
Trans-Stilbene	2.78	7.520
Biphenyl	1.95	6.014
Naphthalene	1.73	5.161
Anthracene	3.03	7.568
Phenanthrene	2.80	7.632
Acenaphthene	2.36	6.469
Fluoranthene	3.44	8.827
Pyrene	3.50	8.833
Hexafluorobenzene	-0.07	2.537
1,3-Dichlorobenzene	0.72	4.410
1,4-Dichlorobenzene	0.74	4.435
1,4-Dibromobenzene	1.71	5.324

Iodobenzene	1.28	4.502
Methylphenylether	1.80	3.890
Benzaldehyde	2.95	4.008
Acetophenone	3.36	4.501
4-Methoxyacetophenone	5.04	5.936
Benzil	4.87	7.611
4-(Chloromethyl)nitrobenzene	3.77	5.806
"Benzonitrile "	3.09	4.039
"Aniline "	4.30	3.934
4-Chloroaniline	4.33	4.889
"2-Nitroaniline "	5.41	5.627
"3-Nitroaniline "	6.49	5.880
"4-Nitroaniline "	7.54	6.343
"2-Nitrotoluene "	2.63	4.878
"Benzamide "	8.07	5.767
"Acetanilide "	7.18	5.567
Benzoic acid	5.10	4.395
"2-Chlorobenzoic acid "	5.62	4.937
"4-Chlorobenzoic acid "	4.80	4.976
"Phenylacetic acid "	6.21	4.918
"Phenol "	4.85	3.766
"2-Chlorophenol "	3.34	4.178
"2-Methoxyphenol "	4.09	4.449
"3-Methoxyphenol "	5.62	4.803

"3-Hydroxybenzaldehyde "	6.97	5.069
"4-Hydroxybenzaldehyde "	6.48	5.533
"2-Nitrophenol "	3.36	4.760
"3-Nitrophenol "	7.06	5.692
"4-Nitrophenol "	7.81	5.876
"2-Hydroxybenzoic acid "	5.35	4.721
"3-Hydroxybenzoic acid "	7.00	4.860
"4-Hydroxybenzoic acid "	6.78	4.867
Methyl 4-hydroxybenzoate	6.84	5.665
"Catechol "	7.20	4.450
"Resorcinol "	8.35	4.618
"Hydroquinone "	8.87	4.827
"4-Hydroxyacetanilide "	6.43	6.430
"Benzyl alcohol "	4.86	4.221
2-Hydroxybenzyl alcohol	7.49	4.978
"2-Phenylethanol "	4.98	4.628
"2-Furaldehyde "	3.83	3.318
Diphenylsulfone	7.39	8.902
"Pyridine "	3.44	3.022
"Pyridine "	3.44	3.022
"Benzylamine "	4.65	4.385
"N-Nitrosodimethylamine "	4.41	2.725
"N-Nitrosodiethylamine "	4.00	3.565
"N-Nitrosodiisopropylamine "	3.78	4.393

"N-Nitrosodibutylamine "	3.60	5.580
"N-Nitrosodiisobutylamine "	3.55	5.241
"N-Nitrosomethylethylamine "	4.20	3.174
"N-Nitrosomethylbutylamine "	3.94	4.118
"N-Nitrosomethylpentylamine "	3.70	4.498
"N-Nitrosoethylisopropylamine "	4.00	4.090
"N-Nitrosoethylbutylamine "	3.85	4.655
"N-Nitrosopropylbutylamine "	3.75	5.145
"N-Nitrosopiperidine "	4.65	4.661
"N-Nitrosomorpholine	5.70	4.202
"N-Nitrosomethylbenzylamine	5.15	6.102