OCTANOL–WATER PARTITION COEFFICIENTS

The octanol–water partition coefficient, *P*, is a widely used parameter for correlating biological effects of organic substances. It is a property of the two-phase system in which water and 1-octanol are in equilibrium at a fixed temperature and the substance is distributed between the water-rich and octanol-rich phases. *P* is defined as the ratio of the equilibrium concentration of the substance in the octanol-rich phase to that in the water-rich phase, in the limit of zero concentration. In general, *P* tends to be large for compounds with extended non-polar structures (such as long chain or multi-ring hydrocarbons) and small for compounds with highly polar groups. Thus *P* (or, in its more common form of expression, log *P*) provides a measure of the lipophilic vs. hydrophilic nature of a compound, which is an important consideration in assessing the potential toxicity. A discussion of methods of measurement and accuracy considerations for log *P* may be found in Reference 1.

This table gives selected values of log *P* for about 450 organic compounds, including many of environmental importance. All values refer to a nominal temperature of 25 °C. The source of each value is indicated in the last column. These references contain data on many more compounds than are included here.

Compounds are listed by molecular formula following the Hill convention. To locate a compound by name or CAS Registry Number when the molecular formula is not known, use the table "Physical Constants of Organic Compounds" in Section 3 and its indexes to determine the molecular formula.

References

1. Sangster, J., *J. Phys. Chem. Ref. Data*, 18, 1111, 1989.
2. Mackay, D., Shiu, W. Y., and Ma, K. C., *Illustrated Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals*, Lewis Publishers/CRC Press, Boca Raton, FL, 1992.
3. Shiu, W. Y., and Mackay, D., *J. Phys. Chem. Ref. Data*, 15, 911, 1986.
4. Pinsuwan, S., Li, L., and Yalkowsky, S. H., *J. Chem. Eng. Data*, 40, 623, 1995.
5. *Solubility Data Series, International Union of Pure and Applied Chemistry, Vol. 20*, Pergamon Press, Oxford, 1985.
6. *Solubility Data Series, International Union of Pure and Applied Chemistry, Vol. 38*, Pergamon Press, Oxford, 1985.
7. Miller, M. M., Ghodbane, S., Wasik, S. P., Tewari, Y. B., and Martire, D. E., *J. Chem. Eng. Data*, 29, 184, 1984.

Mol. form.	Name	log *P*	Ref.
CCl_2F_2	Dichlorodifluoromethane	2.16	2
CCl_3F	Trichlorofluoromethane	2.53	2
CCl_4	Tetrachloromethane	2.64	2
$CHBr_3$	Tribromomethane	2.38	2
$CHCl_3$	Trichloromethane	1.97	2
CH_2BrCl	Bromochloromethane	1.41	2
CH_2Br_2	Dibromomethane	2.3	2
CH_2Cl_2	Dichloromethane	1.25	2
CH_2F_2	Difluoromethane	0.20	1
CH_2I_2	Diiodomethane	2.5	2
CH_2O	Formaldehyde	0.35	1
CH_2O_2	Formic acid	–0.54	1
CH_3Br	Bromomethane	1.19	2
CH_3Cl	Chloromethane	0.91	2
CH_3F	Fluoromethane	0.51	1
CH_3I	Iodomethane	1.5	2
CH_3NO	Formamide	–1.51	1
CH_3NO_2	Nitromethane	–0.33	1
CH_4O	Methanol	–0.74	1
CH_5N	Methylamine	–0.57	1
$C_2Cl_3F_3$	1,1,2-Trichlorotrifluoroethane	3.16	2
C_2Cl_4	Tetrachloroethylene	2.88	2
C_2Cl_6	Hexachloroethane	4.00	4
C_2HCl_3	Trichloroethylene	2.53	2
C_2HCl_5	Pentachloroethane	2.89	2
$C_2H_2Cl_2$	1,1-Dichloroethylene	2.13	2
$C_2H_2Cl_2$	*cis*-1,2-Dichloroethylene	1.86	2
$C_2H_2Cl_2$	*trans*-1,2-Dichloroethylene	1.93	2
$C_2H_2Cl_4$	1,1,2,2-Tetrachloroethane	2.39	2
C_2H_3Cl	Chloroethylene	1.38	2
$C_2H_3Cl_3$	1,1,1-Trichloroethane	2.49	2
$C_2H_3Cl_3$	1,1,2-Trichloroethane	2.38	2
C_2H_3N	Acetonitrile	–0.34	1
$C_2H_4Cl_2$	1,1-Dichloroethane	1.79	2
$C_2H_4Cl_2$	1,2-Dichloroethane	1.48	2
C_2H_4O	Acetaldehyde	0.45	1
C_2H_4O	Ethylene oxide	–0.30	1
$C_2H_4O_2$	Acetic acid	–0.17	1
C_2H_5Br	Bromoethane	1.6	2
C_2H_5Cl	Chloroethane	1.43	2
C_2H_5I	Iodoethane	2	2
C_2H_5NO	Acetamide	–1.26	1
$C_2H_5NO_2$	Nitroethane	0.18	1
C_2H_6O	Ethanol	–0.30	1
C_2H_6O	Dimethyl ether	0.10	1
C_2H_6OS	Dimethyl sulfoxide	–1.35	1
$C_2H_6O_2S$	Dimethyl sulfone	–1.41	1
C_2H_7N	Ethylamine	–0.13	1
C_2H_7N	Dimethylamine	–0.38	1
C_3H_3N	2-Propenenitrile	0.25	1
$C_3H_4Cl_2$	*cis*-1,3-Dichloropropene	2.03	2
C_3H_4O	Propargyl alcohol	–0.38	1
C_3H_4O	Acrolein	–0.01	1
C_3H_5Br	3-Bromopropene	1.79	1
C_3H_5ClO	Epichlorohydrin	0.30	2
$C_3H_5Cl_3$	1,2,3-Trichloropropane	2.63	2
C_3H_5N	Propanenitrile	0.16	1
C_3H_5NO	Acrylamide	–0.78	1
$C_3H_6Cl_2$	1,2-Dichloropropane	2.0	2
C_3H_6O	Allyl alcohol	0.17	1
C_3H_6O	Propanal	0.59	1
C_3H_6O	Acetone	–0.24	1
C_3H_6O	Methyloxirane	0.03	1
$C_3H_6O_2$	Propanoic acid	0.33	1
$C_3H_6O_2$	Methyl acetate	0.18	1
C_3H_7Br	1-Bromopropane	2.1	2
C_3H_7Br	2-Bromopropane	1.9	2
C_3H_7Cl	1-Chloropropane	2.04	1
C_3H_7Cl	2-Chloropropane	1.90	1
C_3H_7I	1-Iodopropane	2.5	2
C_3H_7N	Allylamine	0.03	1
C_3H_7NO	*N,N*-Dimethylformamide	–1.01	1
C_3H_7NO	*N*-Methylacetamide	–1.05	1
$C_3H_7NO_2$	1-Nitropropane	0.87	1

Mol. form.	Name	log *P*	Ref.
C_3H_8O	1-Propanol	0.25	1
C_3H_8O	2-Propanol	0.05	1
C_3H_8S	1-Propanethiol	1.81	1
C_3H_9N	Propylamine	0.48	1
C_3H_9N	Isopropylamine	0.26	1
C_3H_9N	Ethylmethylamine	0.15	1
C_3H_9N	Trimethylamine	0.16	1
C_4H_4O	Furan	1.34	1
C_4H_4S	Thiophene	1.81	1
C_4H_5N	Pyrrole	0.75	1
C_4H_6	1,3-Butadiene	1.99	1
C_4H_6	2-Butyne	1.46	1
C_4H_6O	2,5-Dihydrofuran	0.46	1
$C_4H_6O_2$	Methacrylic acid	0.93	1
$C_4H_6O_2$	Vinyl acetate	0.73	1
$C_4H_6O_2$	Methyl acrylate	0.80	1
C_4H_7N	Butanenitrile	0.60	1
C_4H_8	*cis*-2-Butene	2.33	1
C_4H_8	*trans*-2-Butene	2.31	1
C_4H_8	Isobutene	2.35	1
$C_4H_8Cl_2O$	Bis(2-chloroethyl) ether	1.12	2
C_4H_8O	Ethyl vinyl ether	1.04	1
C_4H_8O	Butanal	0.88	1
C_4H_8O	2-Butanone	0.29	1
C_4H_8O	Tetrahydrofuran	0.46	1
$C_4H_8O_2$	Butanoic acid	0.79	1
$C_4H_8O_2$	Propyl formate	0.83	1
$C_4H_8O_2$	Ethyl acetate	0.73	1
C_4H_9Br	1-Bromobutane	2.75	1
C_4H_9Cl	1-Chlorobutane	2.64	2
C_4H_9F	1-Fluorobutane	2.58	1
C_4H_9I	1-Iodobutane	3	2
C_4H_9N	Pyrrolidine	0.46	1
C_4H_9NO	Butanamide	–0.21	1
C_4H_9NO	*N,N*-Dimethylacetamide	–0.77	1
$C_4H_9NO_2$	1-Nitrobutane	1.47	1
C_4H_{10}	Isobutane	2.8	2
$C_4H_{10}O$	1-Butanol	0.84	1
$C_4H_{10}O$	2-Butanol	0.65	1
$C_4H_{10}O$	2-Methyl-1-propanol	0.76	1
$C_4H_{10}O$	2-Methyl-2-propanol	0.35	1
$C_4H_{10}O$	Diethyl ether	0.89	1
$C_4H_{10}S$	1-Butanethiol	2.28	1
$C_4H_{10}S$	Diethyl sulfide	1.95	1
$C_4H_{11}N$	Butylamine	0.86	1
$C_4H_{11}N$	*tert*-Butylamine	0.40	1
$C_4H_{11}N$	Diethylamine	0.58	1
C_5H_5N	Pyridine	0.65	1
C_5H_6O	2-Methylfuran	1.85	1
C_5H_7N	1-Methylpyrrole	1.21	1
C_5H_8	1,4-Pentadiene	2.48	1
C_5H_8	1-Pentyne	1.98	1
$C_5H_8O_2$	Methyl methacrylate	1.38	1
$C_5H_8O_2$	Ethyl acrylate	1.32	1
C_5H_9N	Pentanenitrile	0.94	1
C_5H_{10}	1-Pentene	2.2	2
C_5H_{10}	Cyclopentane	3.00	1
$C_5H_{10}O$	2-Pentanone	0.84	1
$C_5H_{10}O$	3-Pentanone	0.82	1
$C_5H_{10}O$	3-Methyl-2-butanone	0.56	1
$C_5H_{10}O$	Tetrahydropyran	0.82	1
$C_5H_{10}O$	2-Methyltetrahydrofuran	1.85	2
$C_5H_{10}O_2$	Pentanoic acid	1.39	1
$C_5H_{10}O_2$	Propyl acetate	1.24	1
$C_5H_{10}O_2$	Ethyl propanoate	1.21	1
$C_5H_{10}O_3$	Diethyl carbonate	1.21	1
$C_5H_{11}Br$	1-Bromopentane	3.37	1
$C_5H_{11}F$	1-Fluoropentane	2.33	1
$C_5H_{11}N$	Piperidine	0.84	1
$C_5H_{11}NO_2$	1-Nitropentane	2.01	1
C_5H_{12}	Pentane	3.45	1
C_5H_{12}	Neopentane	3.11	1
$C_5H_{12}O$	1-Pentanol	1.51	1
$C_5H_{12}O$	2-Pentanol	1.25	1
$C_5H_{12}O$	3-Pentanol	1.21	1
$C_5H_{12}O$	3-Methyl-1-butanol	1.28	1
$C_5H_{12}O$	2-Methyl-2-butanol	0.89	1
$C_5H_{12}O$	3-Methyl-2-butanol	1.28	1
$C_5H_{12}O$	2,2-Dimethyl-1-propanol	1.31	1
$C_5H_{12}O$	Methyl *tert*-butyl ether	0.94	1
$C_5H_{13}N$	Pentylamine	1.49	1
C_6Cl_6	Hexachlorobenzene	5.47	5
C_6HCl_5	Pentachlorobenzene	5.03	5
C_6HCl_5O	Pentachlorophenol	5.07	4
$C_6H_2Cl_4$	1,2,3,4-Tetrachlorobenzene	4.55	5
$C_6H_2Cl_4$	1,2,3,5-Tetrachlorobenzene	4.65	5
$C_6H_2Cl_4$	1,2,4,5-Tetrachlorobenzene	4.51	5
$C_6H_3Cl_3$	1,2,3-Trichlorobenzene	4.04	5
$C_6H_3Cl_3$	1,2,4-Trichlorobenzene	3.98	5
$C_6H_3Cl_3$	1,3,5-Trichlorobenzene	4.02	5
$C_6H_4Cl_2$	*o*-Dichlorobenzene	3.38	5
$C_6H_4Cl_2$	*m*-Dichlorobenzene	3.48	5
$C_6H_4Cl_2$	*p*-Dichlorobenzene	3.38	5
$C_6H_4Cl_2O$	2,4-Dichlorophenol	3.23	4
C_6H_5Br	Bromobenzene	2.99	2
C_6H_5Cl	Chlorobenzene	2.84	1
C_6H_5F	Fluorobenzene	2.27	2
C_6H_5I	Iodobenzene	3.28	2
$C_6H_5NO_2$	Nitrobenzene	1.85	1
C_6H_6	Benzene	2.13	1
C_6H_6O	Phenol	1.48	4
C_6H_6S	Benzenethiol	2.52	1
C_6H_7N	Aniline	0.90	1
C_6H_7N	2-Methylpyridine	1.11	1
C_6H_7N	3-Methylpyridine	1.20	1
C_6H_7N	4-Methylpyridine	1.22	1
C_6H_8	1,4-Cyclohexadiene	2.3	2
C_6H_8O	5-Hexyn-2-one	0.58	1
C_6H_8O	2-Cyclohexen-1-one	0.61	1
C_6H_8O	2-Ethylfuran	2.40	1
C_6H_{10}	1,5-Hexadiene	2.8	2
C_6H_{10}	1-Hexyne	2.73	2
C_6H_{10}	Cyclohexene	2.86	1
$C_6H_{10}O$	5-Hexen-2-one	1.02	1
$C_6H_{10}O$	Cyclohexanone	0.81	1
$C_6H_{10}O_2$	Ethyl methacrylate	1.94	1
$C_6H_{11}Br$	Bromocyclohexane	3.20	1
$C_6H_{11}N$	Hexanenitrile	1.66	1
C_6H_{12}	1-Hexene	3.40	1
C_6H_{12}	4-Methyl-1-pentene	2.5	2
C_6H_{12}	Cyclohexane	3.44	1
C_6H_{12}	Methylcyclopentane	3.37	2

Mol. form.	Name	log *P*	Ref.
$C_6H_{12}O$	Cyclohexanol	1.23	1
$C_6H_{12}O$	Hexanal	1.78	1
$C_6H_{12}O$	2-Hexanone	1.38	1
$C_6H_{12}O$	4-Methyl-2-pentanone	1.31	1
$C_6H_{12}O_2$	Hexanoic acid	1.92	1
$C_6H_{12}O_2$	Butyl acetate	1.82	1
$C_6H_{13}Br$	1-Bromohexane	3.80	1
$C_6H_{13}N$	Cyclohexylamine	1.49	1
C_6H_{14}	Hexane	4.00	1
C_6H_{14}	3-Methylpentane	3.60	2
C_6H_{14}	2,2-Dimethylbutane	3.82	1
C_6H_{14}	2,3-Dimethylbutane	3.85	2
$C_6H_{14}O$	1-Hexanol	2.03	1
$C_6H_{14}O$	2-Hexanol	1.76	1
$C_6H_{14}O$	3-Hexanol	1.65	1
$C_6H_{14}O$	3,3-Dimethyl-2-butanol	1.48	1
$C_6H_{14}O$	Dipropyl ether	2.03	1
$C_6H_{14}O$	Diisopropyl ether	1.52	1
$C_6H_{15}N$	Hexylamine	2.06	1
$C_6H_{15}N$	Dipropylamine	1.67	1
$C_6H_{15}N$	Triethylamine	1.45	1
$C_7H_5BrO_2$	2-Bromobenzoic acid	2.20	4
$C_7H_5BrO_2$	3-Bromobenzoic acid	2.87	4
$C_7H_5BrO_2$	4-Bromobenzoic acid	2.86	4
C_7H_5N	Benzonitrile	1.56	1
C_7H_6O	Benzaldehyde	1.48	1
$C_7H_6O_2$	Benzoic acid	1.88	4
$C_7H_6O_2$	Phenyl formate	1.26	1
$C_7H_6O_3$	Salicylic acid	2.20	4
C_7H_7Br	(Bromomethyl)benzene	2.92	1
C_7H_7Cl	*o*-Chlorotoluene	3.42	1
C_7H_7Cl	*m*-Chlorotoluene	3.28	1
C_7H_7Cl	*p*-Chlorotoluene	3.33	1
C_7H_7Cl	(Chloromethyl)benzene	2.30	1
$C_7H_7NO_2$	*p*-Nitrotoluene	2.42	1
C_7H_8	Toluene	2.73	1
C_7H_8	1,3,5-Cycloheptatriene	2.63	2
C_7H_8O	*o*-Cresol	1.98	1
C_7H_8O	*m*-Cresol	1.98	1
C_7H_8O	*p*-Cresol	1.97	1
C_7H_8O	Benzyl alcohol	1.05	1
C_7H_8O	Anisole	2.11	1
C_7H_9N	Benzylamine	1.09	1
C_7H_9N	*o*-Methylaniline	1.32	1
C_7H_9N	*m*-Methylaniline	1.40	1
C_7H_9N	*p*-Methylaniline	1.39	1
C_7H_9N	*N*-Methylaniline	1.66	1
C_7H_{14}	1-Heptene	3.99	1
C_7H_{14}	Methylcyclohexane	3.88	1
$C_7H_{14}O$	2-Heptanone	1.98	1
$C_7H_{14}O$	5-Methyl-2-hexanone	1.88	1
$C_7H_{15}Br$	1-Bromoheptane	4.36	1
$C_7H_{15}Cl$	1-Chloroheptane	4.15	1
$C_7H_{15}I$	1-Iodoheptane	4.70	1
C_7H_{16}	Heptane	4.50	1
$C_7H_{16}O$	1-Heptanol	2.62	1
$C_7H_{16}O$	2-Heptanol	2.31	1
$C_7H_{16}O$	3-Heptanol	2.24	1
$C_7H_{16}O$	4-Heptanol	2.22	1
$C_7H_{17}N$	Heptylamine	2.57	1
C_8H_6	Phenylacetylene	2.40	1
C_8H_6O	Benzofuran	2.67	1
C_8H_6S	Benzo[b]thiophene	3.12	1
C_8H_7N	Benzeneacetonitrile	1.56	1
C_8H_7N	Indole	2.14	1
C_8H_8	Styrene	3.05	1
C_8H_8O	Acetophenone	1.63	1
C_8H_8O	2-Methylbenzaldehyde	2.26	1
C_8H_8O	Benzeneacetaldehyde	1.78	1
C_8H_8O	2,3-Dihydrobenzofuran	2.14	1
C_8H_8O	Phenyloxirane	1.61	1
$C_8H_8O_2$	*o*-Toluic acid	2.32	4
$C_8H_8O_2$	*m*-Toluic acid	2.37	1
$C_8H_8O_2$	*p*-Toluic acid	2.34	1
$C_8H_8O_2$	Benzeneacetic acid	1.41	1
$C_8H_8O_2$	Phenyl acetate	1.49	1
$C_8H_8O_2$	Methyl benzoate	2.20	1
C_8H_{10}	Ethylbenzene	3.15	1
C_8H_{10}	*o*-Xylene	3.12	1
C_8H_{10}	*m*-Xylene	3.20	1
C_8H_{10}	*p*-Xylene	3.15	1
$C_8H_{10}O$	*o*-Ethylphenol	2.47	1
$C_8H_{10}O$	*m*-Ethylphenol	2.50	1
$C_8H_{10}O$	*p*-Ethylphenol	2.50	1
$C_8H_{10}O$	2,4-Xylenol	2.35	1
$C_8H_{10}O$	2,5-Xylenol	2.34	1
$C_8H_{10}O$	2,6-Xylenol	2.36	1
$C_8H_{10}O$	3,4-Xylenol	3.23	1
$C_8H_{10}O$	3,5-Xylenol	2.35	1
$C_8H_{10}O$	Benzeneethanol	1.36	1
$C_8H_{10}O$	α-Methylbenzyl alcohol	1.42	1
$C_8H_{10}O$	3-Methylbenzenemethanol	1.60	1
$C_8H_{10}O$	4-Methylbenzenemethanol	1.58	1
$C_8H_{10}O$	Phenetole	2.51	1
$C_8H_{10}O$	Benzyl methyl ether	1.35	1
$C_8H_{10}O$	2-Methylanisole	2.74	1
$C_8H_{10}O$	3-Methylanisole	2.66	1
$C_8H_{10}O$	4-Methylanisole	2.81	1
$C_8H_{11}N$	*p*-Ethylaniline	1.96	1
$C_8H_{11}N$	*N,N*-Dimethylaniline	2.31	1
$C_8H_{11}N$	Benzeneethanamine	1.41	1
$C_8H_{14}O_2$	Butyl methacrylate	2.88	1
$C_8H_{15}N$	Octanenitrile	2.75	1
C_8H_{16}	1-Octene	4.57	1
C_8H_{16}	Cyclooctane	4.45	2
$C_8H_{16}O$	2-Octanone	2.37	1
$C_8H_{16}O_2$	Octanoic acid	3.05	1
$C_8H_{17}Br$	1-Bromooctane	4.89	1
C_8H_{18}	Octane	5.15	1
$C_8H_{18}O$	1-Octanol	3.07	1
$C_8H_{18}O$	2-Octanol	2.90	1
$C_8H_{18}O$	4-Octanol	2.68	1
$C_8H_{18}O$	Dibutyl ether	3.21	1
C_9H_7N	Quinoline	2.03	1
C_9H_7N	Isoquinoline	2.08	1
C_9H_8	Indene	2.92	1
$C_9H_8O_2$	*trans*-Cinnamic acid	2.13	1
C_9H_9N	Benzenepropanenitrile	1.72	1
C_9H_{10}	Indan	3.33	1
$C_9H_{10}O$	1-Phenyl-1-propanone	2.19	1
$C_9H_{10}O$	1-Phenyl-2-propanone	1.44	1
$C_9H_{10}O$	4-Methylacetophenone	2.19	1

Mol. form.	Name	log *P*	Ref.
$C_9H_{10}O_2$	2-Phenylpropanoic acid	1.80	1
$C_9H_{10}O_2$	Benzyl acetate	1.96	1
$C_9H_{10}O_2$	4-Methylphenyl acetate	2.11	1
$C_9H_{10}O_2$	Ethyl benzoate	2.64	1
C_9H_{12}	Propylbenzene	3.69	1
C_9H_{12}	Isopropylbenzene	3.66	1
C_9H_{12}	*o*-Ethyltoluene	3.53	1
C_9H_{12}	*p*-Ethyltoluene	3.63	2
C_9H_{12}	1,2,3-Trimethylbenzene	3.60	1
C_9H_{12}	1,2,4-Trimethylbenzene	3.63	1
C_9H_{12}	1,3,5-Trimethylbenzene	3.42	1
$C_9H_{12}O$	2-Propylphenol	2.93	1
$C_9H_{12}O$	4-Propylphenol	3.20	1
$C_9H_{12}O$	2,3,6-Trimethylphenol	2.67	1
$C_9H_{12}O$	2,4,6-Trimethylphenol	2.46	1
$C_9H_{12}O$	Benzenepropanol	1.88	1
$C_9H_{13}N$	*N,N*-Dimethylbenzylamine	1.98	1
$C_9H_{13}N$	Amphetamine	1.76	1
C_9H_{18}	1-Nonene	5.15	1
$C_9H_{18}O$	2-Nonanone	3.16	1
$C_9H_{18}O$	5-Methyl-2-octanone	2.92	1
C_9H_{20}	Nonane	5.65	1
$C_9H_{20}O$	1-Nonanol	4.02	1
$C_9H_{21}N$	Tripropylamine	2.79	1
$C_{10}H_7Cl$	1-Chloronaphthalene	3.90	1
$C_{10}H_7Cl$	2-Chloronaphthalene	3.98	1
$C_{10}H_8$	Naphthalene	3.34	4
$C_{10}H_8$	Azulene	3.22	1
$C_{10}H_8O$	1-Naphthol	2.84	1
$C_{10}H_8O$	2-Naphthol	2.70	1
$C_{10}H_{12}O_2$	Isopropyl benzoate	3.18	1
$C_{10}H_{14}$	Butylbenzene	4.26	1
$C_{10}H_{14}$	*tert*-Butylbenzene	4.11	1
$C_{10}H_{14}$	Isobutylbenzene	4.01	2
$C_{10}H_{14}$	*p*-Cymene	4.10	1
$C_{10}H_{14}$	1,2,4,5-Tetramethylbenzene	4.10	2
$C_{10}H_{14}$	1,2,3,4-Tetramethylbenzene	4.00	1
$C_{10}H_{14}$	1,2,3,5-Tetramethylbenzene	4.10	1
$C_{10}H_{14}O$	4-Butylphenol	3.65	1
$C_{10}H_{20}O$	2-Decanone	3.77	1
$C_{10}H_{20}O_2$	Decanoic acid	4.09	1
$C_{10}H_{22}$	Decane	6.25	1
$C_{10}H_{22}O$	1-Decanol	4.57	1
$C_{11}H_9N$	4-Phenylpyridine	2.59	1
$C_{11}H_{10}$	1-Methylnaphthalene	3.87	1
$C_{11}H_{10}$	2-Methylnaphthalene	4.00	1
$C_{11}H_{16}$	Pentylbenzene	4.90	1
$C_{11}H_{16}$	Pentamethylbenzene	4.56	1
$C_{11}H_{22}O$	2-Undecanone	4.09	1
$C_{11}H_{22}O_2$	Methyl decanoate	4.41	1
$C_{12}Cl_{10}$	Decachlorobiphenyl	8.26	3
$C_{12}HCl_9$	2,2′,3,3′,4,5,5′,6,6′-Nonachlorobiphenyl	8.16	3
$C_{12}H_2Cl_8$	2,2′,3,3′,5,5′,6,6′-Octachlorobiphenyl	7.10	3
$C_{12}H_3Cl_7$	2,2′,3,3′,4,4′,6-Heptachlorobiphenyl	6.70	3
$C_{12}H_4Cl_6$	2,2′,3,3′,4,4′-Hexachlorobiphenyl	7.00	3
$C_{12}H_4Cl_6$	2,2′,4,4′,6,6′-Hexachlorobiphenyl	7.00	3
$C_{12}H_4Cl_6$	2,2′,3,3′,6,6′-Hexachlorobiphenyl	6.70	3
$C_{12}H_5Cl_5$	2,3,4,5,6-Pentachlorobiphenyl	6.30	3
$C_{12}H_5Cl_5$	2,2′,4,5,5′-Pentachlorobiphenyl	6.40	3
$C_{12}H_6Cl_4$	2,3,4,5-Tetrachlorobiphenyl	5.72	3
$C_{12}H_6Cl_4$	2,2′,4′,5-Tetrachlorobiphenyl	5.73	7
$C_{12}H_7Cl_3$	2,4,5-Trichlorobiphenyl	5.60	3
$C_{12}H_7Cl_3$	2,4,6-Trichlorobiphenyl	5.47	3
$C_{12}H_8Cl_2$	2,5-Dichlorobiphenyl	5.10	3
$C_{12}H_8Cl_2$	2,6-Dichlorobiphenyl	5.00	3
$C_{12}H_8O$	Dibenzofuran	4.12	1
$C_{12}H_9Cl$	2-Chlorobiphenyl	4.52	1
$C_{12}H_9Cl$	3-Chlorobiphenyl	4.58	1
$C_{12}H_9Cl$	4-Chlorobiphenyl	4.61	1
$C_{12}H_9N$	Carbazole	3.72	1
$C_{12}H_{10}$	Acenaphthene	3.96	4
$C_{12}H_{10}$	Biphenyl	3.76	6
$C_{12}H_{10}N_2$	Azobenzene	3.82	1
$C_{12}H_{10}O$	Diphenyl ether	4.21	1
$C_{12}H_{10}S$	Diphenyl sulfide	4.45	1
$C_{12}H_{11}N$	Diphenylamine	3.44	4
$C_{12}H_{12}$	1-Ethylnaphthalene	4.40	1
$C_{12}H_{12}$	1,2-Dimethylnaphthalene	4.31	1
$C_{12}H_{12}$	1,4-Dimethylnaphthalene	4.37	1
$C_{12}H_{14}O$	4-Phenylcyclohexanone	2.45	1
$C_{12}H_{18}$	Hexylbenzene	5.52	1
$C_{12}H_{18}$	Hexamethylbenzene	4.69	4
$C_{12}H_{22}O$	Cyclododecanone	4.10	1
$C_{12}H_{24}O_2$	Dodecanoic acid	4.6	1
$C_{12}H_{26}O$	1-Dodecanol	5.13	1
$C_{13}H_8O$	9H-Fluoren-9-one	3.58	1
$C_{13}H_9N$	Acridine	3.40	1
$C_{13}H_{10}$	9H-Fluorene	4.20	4
$C_{13}H_{10}O$	Benzophenone	3.18	1
$C_{13}H_{10}O_2$	Phenyl benzoate	3.59	1
$C_{13}H_{11}NO$	*N*-Phenylbenzamide	2.62	1
$C_{13}H_{12}$	Diphenylmethane	4.14	1
$C_{13}H_{12}$	4-Methylbiphenyl	4.63	1
$C_{13}H_{12}O$	Diphenylmethanol	2.67	1
$C_{13}H_{12}O$	Benzyl phenyl ether	3.79	1
$C_{14}H_{10}$	Anthracene	4.56	4
$C_{14}H_{10}$	Phenanthrene	4.52	4
$C_{14}H_{12}$	*trans*-Stilbene	4.81	1
$C_{14}H_{12}$	1-Methylfluorene	4.97	1
$C_{14}H_{12}O$	2-Phenylacetophenone	3.18	1
$C_{14}H_{12}O_2$	Benzyl benzoate	3.97	1
$C_{14}H_{14}$	1,2-Diphenylethane	4.70	1
$C_{14}H_{14}$	4,4′-Dimethylbiphenyl	5.09	1
$C_{14}H_{22}$	Octylbenzene	6.30	1
$C_{14}H_{28}O_2$	Tetradecanoic acid	6.1	1
$C_{15}H_{12}$	2-Methylanthracene	5.15	2
$C_{15}H_{12}$	9-Methylanthracene	5.07	1
$C_{15}H_{12}$	1-Methylphenanthrene	5.14	2
$C_{16}H_{10}$	Fluoranthene	5.07	4
$C_{16}H_{10}$	Pyrene	5.08	4
$C_{16}H_{14}$	9,10-Dimethylanthracene	5.69	1
$C_{16}H_{32}O_2$	Hexadecanoic acid	7.17	1
$C_{17}H_{12}$	11H-Benzo[a]fluorene	5.40	1
$C_{17}H_{12}$	11H-Benzo[b]fluorene	5.75	1
$C_{18}H_{12}$	Benz[a]anthracene	5.91	1
$C_{18}H_{12}$	Chrysene	5.73	4
$C_{18}H_{12}$	Naphthacene	5.76	1
$C_{18}H_{12}$	Triphenylene	5.49	4
$C_{18}H_{15}N$	Triphenylamine	5.74	1
$C_{18}H_{30}O_2$	Linolenic acid	6.46	1
$C_{18}H_{32}O_2$	Linoleic acid	7.05	1

Mol. form.	Name	log *P*	Ref.
$C_{18}H_{34}O_2$	Oleic acid	7.64	1
$C_{18}H_{36}O_2$	Stearic acid	8.23	1
$C_{19}H_{16}O$	Triphenylmethanol	3.68	1
$C_{20}H_{12}$	Perylene	6.25	1
$C_{20}H_{12}$	Benzo[a]pyrene	6.20	4
$C_{20}H_{32}O_2$	Arachidonic acid	6.98	1
$C_{20}H_{40}O_2$	Arachidic acid	9.29	1
$C_{21}H_{16}$	1,2-Dihydro-3-methylbenz[j] aceanthrylene	6.75	1
$C_{22}H_{12}$	Benzo[ghi]perylene	6.90	1
$C_{24}H_{12}$	Coronene	6.05	4