DIAMAGNETIC SUSCEPTIBILITY OF SELECTED ORGANIC COMPOUNDS

When a material is placed in a magnetic field $\boldsymbol{H}$, a magnetization $\boldsymbol{M}$ is induced in the material which is related to $\boldsymbol{H}$ by $\boldsymbol{M} = \kappa \boldsymbol{H}$, where κ is called the volume susceptibility. Since $\boldsymbol{H}$ and $\boldsymbol{M}$ have the same dimensions, κ is dimensionless. A more useful parameter is the molar susceptibility χ_m, defined by

$$\chi_m = \kappa V_m = \kappa M/\rho$$

where V_m is the molar volume of the substance, M the molar mass, and ρ the mass density. When the cgs system is used, the customary unit for χ_m is $cm^3\ mol^{-1}$; the corresponding SI unit is $m^3\ mol^{-1}$. Substances with no unpaired electrons are called diamagnetic; they have negative values of χ_m.

This table gives values of the diamagnetic susceptibility for about 400 common organic compounds. All values refer to room temperature and atmospheric pressure and to the physical form that is stable under these conditions. Substances are arranged by molecular formula in Hill order. A more extensive table may be found in Reference 1.

In keeping with customary practice, the molar susceptibility is given here in units appropriate to the cgs system. These values should be multiplied by 4π to obtain values for use in SI equations (where the magnetic field strength $\boldsymbol{H}$ has units of $A\ m^{-1}$).

References

1. *Landolt-Börnstein, Numerical Data and Functional Relationships in Science and Technology, New Series,* II/16, *Diamagnetic Susceptibility,* Gupta, R. R., Ed., Springer-Verlag, Heidelberg, 1986.
2. Barter, C., Meisenheimer, R. G., and Stevenson, D. P., *J. Phys. Chem.* 64, 1312, 1960.
3. Broersma, S., *J. Chem. Phys.* 17, 873, 1949.

Molecular formula	Compound	$-\chi_m/10^{-6}\ cm^3\ mol^{-1}$
$CBrCl_3$	Bromotrichloromethane	73.2
CBr_4	Tetrabromomethane	93.7
$CClF_3$	Chlorotrifluoromethane	45.3
CClN	Cyanogen chloride	32.4
CCl_2F_2	Dichlorodifluoromethane	52.2
CCl_2O	Carbonyl chloride	47.9
CCl_3F	Trichlorofluoromethane	58.7
CCl_3NO_2	Trichloronitromethane	75.3
CCl_4	Tetrachloromethane	66.8
$CHBrCl_2$	Bromodichloromethane	66.3
$CHBr_3$	Tribromomethane	82.6
$CHCl_3$	Trichloromethane	58.9
CHI_3	Triiodomethane	117.1
CH_2BrCl	Bromochloromethane	55.1
CH_2Br_2	Dibromomethane	65.1
CH_2Cl_2	Dichloromethane	46.6
CH_2I_2	Diiodomethane	93.1
CH_2N_2	Cyanamide	24.8
CH_2O	Formaldehyde	18.6
CH_2O_2	Formic acid	19.9
CH_3Br	Bromomethane	42.8
CH_3Cl	Chloromethane	32.0
CH_3F	Fluoromethane	17.8
CH_3I	Iodomethane	57.2
CH_3NO	Formamide	23.0
CH_3NO_2	Nitromethane	21.0
CH_4	Methane	17.4
CH_4N_2O	Urea	33.5
CH_4O	Methanol	21.4
CH_5N	Methylamine	27.0
CI_4	Tetraiodomethane	136
CN_4O_8	Tetranitromethane	43.0
C_2ClF_3	Chlorotrifluoroethylene	49.1
C_2Cl_4	Tetrachloroethylene	81.6
C_2Cl_6	Hexachloroethane	112.8
C_2HCl_3	Trichloroethylene	65.8
C_2HCl_3O	Trichloroacetaldehyde	73.0
C_2HCl_3O	Dichloroacetyl chloride	69.0
$C_2HCl_3O_2$	Trichloroacetic acid	73.0
C_2HCl_5	Pentachloroethane	99.1
$C_2HF_3O_2$	Trifluoroacetic acid	43.3
C_2H_2	Acetylene	20.8
$C_2H_2Br_4$	1,1,2,2-Tetrabromoethane	123.4
$C_2H_2Cl_2$	1,1-Dichloroethylene	49.2
$C_2H_2Cl_2$	*cis*-1,2-Dichloroethylene	51.0
$C_2H_2Cl_2$	*trans*-1,2-Dichloroethylene	48.9
$C_2H_2Cl_4$	1,1,2,2-Tetrachloroethane	89.8
C_2H_3Cl	Chloroethylene	35.9
C_2H_3ClO	Acetyl chloride	39.3
C_2H_3N	Acetonitrile	27.8
C_2H_4	Ethylene	18.8
$C_2H_4Br_2$	1,2-Dibromoethane	78.9
$C_2H_4Cl_2$	1,1-Dichloroethane	57.4
$C_2H_4Cl_2$	1,2-Dichloroethane	59.6
C_2H_4O	Acetaldehyde	22.2
C_2H_4O	Ethylene oxide	30.5
$C_2H_4O_2$	Acetic acid	31.8
$C_2H_4O_2$	Methyl formate	31.1
C_2H_5Br	Bromoethane	78.8
C_2H_5Cl	Chloroethane	69.9
C_2H_5I	Iodoethane	69.1
C_2H_5NO	Acetamide	33.9

Molecular formula	Compound	$-\chi_m/10^{-6}$ cm^3 mol^{-1}
$C_2H_5NO_2$	Nitroethane	35.4
$C_2H_5NO_2$	Glycine	39.6
C_2H_6	Ethane	26.8
C_2H_6O	Ethanol	33.7
C_2H_6O	Dimethyl ether	26.3
$C_2H_6O_2$	Ethylene glycol	38.9
C_2H_6S	Ethanethiol	47.0
C_2H_6S	Dimethyl sulfide	44.9
$C_2H_8N_2$	1,2-Ethanediamine	46.5
C_2N_2	Cyanogen	21.6
C_3H_4	Allene	25.3
$C_3H_4O_2$	Vinyl formate	34.7
C_3H_5Br	3-Bromopropene	58.6
C_3H_5Cl	2-Chloropropene	47.8
C_3H_5Cl	3-Chloropropene	47.8
C_3H_5N	Propanenitrile	38.6
C_3H_6	Propene	30.7
C_3H_6	Cyclopropane	39.2
C_3H_6O	Allyl alcohol	36.7
C_3H_6O	Propanal	34.2
C_3H_6O	Acetone	33.8
C_3H_6O	Methyloxirane	42.5
$C_3H_6O_2$	Propanoic acid	43.2
$C_3H_6O_2$	Ethyl formate	42.4
C_3H_7Br	1-Bromopropane	65.6
C_3H_7Br	2-Bromopropane	65.1
C_3H_7Cl	1-Chloropropane	56.0
C_3H_7I	1-Iodopropane	84.3
C_3H_7N	Allylamine	40.1
$C_3H_7NO_2$	1-Nitropropane	45.0
$C_3H_7NO_2$	2-Nitropropane	45.4
$C_3H_7NO_2$	Ethyl carbamate	57.0
C_3H_8	Propane	38.6
C_3H_8O	1-Propanol	44.8
C_3H_8O	2-Propanol	45.7
$C_3H_8O_2$	1,3-Propylene glycol	50.2
$C_3H_8O_2$	Dimethoxymethane	47.3
$C_3H_8O_3$	Glycerol	57.1
$C_4H_2O_3$	Maleic anhydride	35.8
$C_4H_4N_2$	Pyrazine	37.8
$C_4H_4N_2$	Pyrimidine	43.1
C_4H_4O	Furan	43.1
$C_4H_4O_3$	Succinic anhydride	47.5
$C_4H_4O_4$	Maleic acid	49.6
$C_4H_4O_4$	Fumaric acid	49.1
C_4H_4S	Thiophene	57.3
C_4H_5N	Pyrrole	48.6

Molecular formula	Compound	$-\chi_m/10^{-6}$ cm^3 mol^{-1}
C_4H_6	1,2-Butadiene	35.6
C_4H_6	1,3-Butadiene	32.1
$C_4H_6O_2$	Vinyl acetate	46.4
$C_4H_6O_3$	Acetic anhydride	52.8
$C_4H_6O_4$	Succinic acid	58.0
$C_4H_6O_4$	Dimethyl oxalate	55.7
C_4H_7N	Butanenitrile	50.4
C_4H_8	1-Butene	41.0
C_4H_8	*cis*-2-Butene	42.6
C_4H_8	*trans*-2-Butene	43.3
C_4H_8	Isobutene	40.8
C_4H_8	Cyclobutane	40.0
C_4H_8O	Ethyl vinyl ether	47.9
C_4H_8O	1,2-Epoxybutane	54.8
C_4H_8O	Butanal	45.9
C_4H_8O	2-Butanone	45.6
$C_4H_8O_2$	Butanoic acid	55.2
$C_4H_8O_2$	2-Methylpropanoic acid	56.1
$C_4H_8O_2$	Propyl formate	55.0
$C_4H_8O_2$	Ethyl acetate	54.1
$C_4H_8O_2$	Methyl propanoate	54.5
$C_4H_8O_2$	1,4-Dioxane	52.2
C_4H_9Br	1-Bromobutane	77.1
C_4H_9Br	1-Bromo-2-methylpropane	79.9
C_4H_9Cl	1-Chlorobutane	67.1
C_4H_9Cl	2-Chlorobutane	67.4
C_4H_9I	1-Iodobutane	93.6
C_4H_9N	Pyrrolidine	54.8
C_4H_9NO	Morpholine	55.0
C_4H_{10}	Butane	50.3
C_4H_{10}	Isobutane	50.5
$C_4H_{10}O$	1-Butanol	56.4
$C_4H_{10}O$	2-Butanol	57.6
$C_4H_{10}O$	2-Methyl-1-propanol	57.6
$C_4H_{10}O$	2-Methyl-2-propanol	56.6
$C_4H_{10}O$	Diethyl ether	55.5
$C_4H_{10}O_2$	1,3-Butanediol	61.8
$C_4H_{10}O_2$	1,4-Butanediol	61.8
$C_4H_{10}S$	1-Butanethiol	70.2
$C_4H_{11}N$	Butylamine	58.9
$C_4H_{11}N$	Isobutylamine	59.8
$C_4H_{11}N$	Diethylamine	56.8
$C_5H_4O_2$	Furfural	47.2
C_5H_5N	Pyridine	48.7
$C_5H_6O_2$	Furfuryl alcohol	61.0
$C_5H_7NO_2$	Ethyl cyanoacetate	67.3
C_5H_8	2-Methyl-1,3-butadiene	46.0

Molecular formula	Compound	$-\chi_m/10^{-6}$ cm^3 mol^{-1}
C_5H_8O	Cyclopentanone	51.6
$C_5H_8O_2$	Methyl methacrylate	57.3
$C_5H_8O_2$	2,4-Pentanedione	54.9
C_5H_{10}	1-Pentene	54.6
C_5H_{10}	2-Methyl-2-butene	54.7
C_5H_{10}	Cyclopentane	56.2
$C_5H_{10}O$	Cyclopentanol	64.0
$C_5H_{10}O$	Pentanal	57.5
$C_5H_{10}O$	2-Pentanone	57.5
$C_5H_{10}O$	3-Pentanone	57.7
$C_5H_{10}O_2$	Pentanoic acid	66.5
$C_5H_{10}O_2$	3-Methylbutanoic acid	67.7
$C_5H_{10}O_2$	Butyl formate	65.8
$C_5H_{10}O_2$	Isobutyl formate	66.8
$C_5H_{10}O_2$	Propyl acetate	65.9
$C_5H_{10}O_2$	Isopropyl acetate	67.0
$C_5H_{10}O_2$	Ethyl propanoate	66.3
$C_5H_{10}O_2$	Tetrahydrofurfuryl alcohol	69.4
$C_5H_{10}O_3$	Diethyl carbonate	75.4
$C_5H_{11}N$	Piperidine	64.2
C_5H_{12}	Pentane	61.5
C_5H_{12}	Isopentane	63.0
C_5H_{12}	Neopentane	63.0
$C_5H_{12}O$	1-Pentanol	67.0
$C_5H_{12}O$	2-Pentanol	69.1
$C_5H_{12}O_2$	1,5-Pentanediol	73.5
$C_5H_{13}N$	Pentylamine	69.3
C_6Cl_6	Hexachlorobenzene	147.0
$C_6H_4ClNO_2$	1-Chloro-2-nitrobenzene	75.5
$C_6H_4ClNO_2$	1-Chloro-3-nitrobenzene	77.2
$C_6H_4ClNO_2$	1-Chloro-4-nitrobenzene	74.7
$C_6H_4Cl_2$	*o*-Dichlorobenzene	84.4
$C_6H_4Cl_2$	*m*-Dichlorobenzene	84.1
$C_6H_4Cl_2$	*p*-Dichlorobenzene	81.7
$C_6H_4O_2$	*p*-Benzoquinone	36
C_6H_5Br	Bromobenzene	78.4
C_6H_5Cl	Chlorobenzene	69.5
C_6H_5ClO	*o*-Chlorophenol	77.3
C_6H_5ClO	*m*-Chlorophenol	77.6
C_6H_5ClO	*p*-Chlorophenol	77.7
C_6H_5F	Fluorobenzene	58.4
C_6H_5I	Iodobenzene	92.0
$C_6H_5NO_2$	Nitrobenzene	61.9
$C_6H_5NO_3$	*o*-Nitrophenol	68.9
$C_6H_5NO_3$	*m*-Nitrophenol	65.9
$C_6H_5NO_3$	*p*-Nitrophenol	66.9
C_6H_6	Benzene	54.8

Molecular formula	Compound	$-\chi_m/10^{-6}$ cm^3 mol^{-1}
C_6H_6ClN	*o*-Chloroaniline	79.5
C_6H_6ClN	*m*-Chloroaniline	76.6
C_6H_6ClN	*p*-Chloroaniline	76.7
$C_6H_6N_2O_2$	*o*-Nitroaniline	67.4
$C_6H_6N_2O_2$	*m*-Nitroaniline	69.7
$C_6H_6N_2O_2$	*p*-Nitroaniline	68.0
C_6H_6O	Phenol	60.6
$C_6H_6O_2$	*p*-Hydroquinone	64.7
$C_6H_6O_2$	Pyrocatechol	68.2
$C_6H_6O_2$	Resorcinol	67.2
C_6H_7N	Aniline	62.4
C_6H_7N	4-Methylpyridine	59.8
C_6H_8	1,4-Cyclohexadiene	48.7
$C_6H_8N_2$	*o*-Phenylenediamine	72.5
$C_6H_8N_2$	*m*-Phenylenediamine	70.4
$C_6H_8N_2$	*p*-Phenylenediamine	70.7
C_6H_{10}	1,5-Hexadiene	55.1
C_6H_{10}	1-Hexyne	64.5
C_6H_{10}	Cyclohexene	58.0
$C_6H_{10}O$	Cyclohexanone	62.0
$C_6H_{10}O_3$	Ethyl acetoacetate	71.7
$C_6H_{10}O_4$	Diethyl oxalate	81.7
C_6H_{12}	1-Hexene	66.4
C_6H_{12}	2,3-Dimethyl-2-butene	65.9
C_6H_{12}	Cyclohexane	68
C_6H_{12}	Methylcyclopentane	70.2
$C_6H_{12}O$	Hexanal	69.4
$C_6H_{12}O$	2-Hexanone	69.2
$C_6H_{12}O$	3-Hexanone	69.0
$C_6H_{12}O$	4-Methyl-2-pentanone	69.7
$C_6H_{12}O$	Cyclohexanol	73.4
$C_6H_{12}O_2$	Hexanoic acid	78.1
$C_6H_{12}O_2$	Isopentyl formate	78.4
$C_6H_{12}O_2$	Isobutyl acetate	78.7
$C_6H_{12}O_2$	Propyl propanoate	77.7
$C_6H_{12}O_3$	Paraldehyde	86.1
C_6H_{14}	Hexane	74.1
C_6H_{14}	2-Methylpentane	75.3
C_6H_{14}	3-Methylpentane	75.5
C_6H_{14}	2,2-Dimethylbutane	76.2
C_6H_{14}	2,3-Dimethylbutane	76.2
$C_6H_{14}O$	1-Hexanol	79.5
$C_6H_{14}O$	4-Methyl-2-pentanol	80.4
$C_6H_{14}O$	Dipropyl ether	79.4
$C_6H_{14}O_2$	1,6-Hexanediol	84.3
$C_6H_{14}O_2$	1,1-Diethoxyethane	81.4
$C_6H_{14}O_6$	*D*-Glucitol	107.8

Molecular formula	Compound	$-\chi_m/10^{-6}$ cm^3 mol^{-1}
$C_6H_{15}N$	Triethylamine	83.3
C_7H_5N	Benzonitrile	65.2
C_7H_6O	Benzaldehyde	60.7
$C_7H_6O_2$	Salicylaldehyde	66.8
$C_7H_6O_3$	Salicylic acid	75
C_7H_7Br	*p*-Bromotoluene	88.7
C_7H_7Cl	*o*-Chlorotoluene	82.4
C_7H_7Cl	*m*-Chlorotoluene	79.7
C_7H_7Cl	*p*-Chlorotoluene	80.3
C_7H_7Cl	(Chloromethyl)benzene	81.6
C_7H_7NO	Benzamide	72.0
$C_7H_7NO_2$	*o*-Nitrotoluene	72.2
$C_7H_7NO_2$	*m*-Nitrotoluene	72.7
$C_7H_7NO_2$	*p*-Nitrotoluene	73.3
C_7H_8	Toluene	65.6
C_7H_8O	*o*-Cresol	73.3
C_7H_8O	*m*-Cresol	72.2
C_7H_8O	*p*-Cresol	72.4
C_7H_8O	Benzyl alcohol	71.8
C_7H_8O	Anisole	72.2
C_7H_9N	*o*-Methylaniline	74.9
C_7H_9N	*m*-Methylaniline	74.6
C_7H_9N	*p*-Methylaniline	72.5
C_7H_9N	*N*-Methylaniline	74.1
C_7H_9N	2,4-Dimethylpyridine	71.3
C_7H_9N	2,6-Dimethylpyridine	72.5
C_7H_9NO	*o*-Methoxyaniline [*o*-Anisidine]	79.1
$C_7H_{12}O_4$	Diethyl malonate	92.6
C_7H_{14}	1-Heptene	77.8
C_7H_{14}	Cycloheptane	73.9
C_7H_{14}	Methylcyclohexane	78.9
$C_7H_{14}O$	1-Heptanal	81.0
$C_7H_{14}O$	2-Heptanone	80.5
$C_7H_{14}O$	3-Heptanone	80.7
$C_7H_{14}O$	4-Heptanone	80.5
$C_7H_{14}O$	2,4-Dimethyl-3-pentanone	81.1
$C_7H_{14}O_2$	Heptanoic acid	89.0
$C_7H_{14}O_2$	Pentyl acetate	88.9
$C_7H_{14}O_2$	Isopentyl acetate	89.4
$C_7H_{14}O_2$	Butyl propanoate	89.1
$C_7H_{14}O_2$	Ethyl 3-methylbutanoate	91.1
C_7H_{16}	Heptane	85.2
C_7H_{16}	3-Ethylpentane	86.2
C_7H_{16}	2,2-Dimethylpentane	87.0
C_7H_{16}	2,3-Dimethylpentane	87.5
C_7H_{16}	2,4-Dimethylpentane	87.5
C_7H_{16}	3,3-Dimethylpentane	89.5
$C_7H_{16}O$	1-Heptanol	91.7
$C_7H_{16}O$	4-Heptanol	92.1
$C_8H_4O_3$	Phthalic anhydride	66.7
$C_8H_6O_4$	Phthalic acid	83.6
$C_8H_6O_4$	Isophthalic acid	84.6
$C_8H_6O_4$	Terephthalic acid	83.5
C_8H_7N	Benzeneacetonitrile	76.9
C_8H_7N	Indole	85.0
C_8H_8	Styrene	68.2
C_8H_8O	Acetophenone	72.5
$C_8H_8O_2$	*o*-Toluic acid	84.3
$C_8H_8O_2$	*m*-Toluic acid	83.0
$C_8H_8O_2$	*p*-Toluic acid	82.4
$C_8H_8O_2$	Benzeneacetic acid	82.4
$C_8H_8O_2$	Methyl benzoate	81.6
$C_8H_8O_3$	Methyl salicylate	86.6
C_8H_{10}	Ethylbenzene	77.3
C_8H_{10}	*o*-Xylene	77.7
C_8H_{10}	*m*-Xylene	76.4
C_8H_{10}	*p*-Xylene	77.0
$C_8H_{10}O$	Phenetole	84.5
$C_8H_{11}N$	*N*-Ethylaniline	85.6
$C_8H_{11}N$	*N,N*-Dimethylaniline	85.1
$C_8H_{11}N$	2,4,6-Trimethylpyridine	83.1
$C_8H_{14}O_4$	Ethyl succinate	105.0
C_8H_{16}	1-Octene	88.8
C_8H_{16}	Cyclooctane	85.3
$C_8H_{16}O_2$	Octanoic acid	99.5
$C_8H_{16}O_2$	Hexyl acetate	100.9
$C_8H_{17}Cl$	1-Chlorooctane	114.9
C_8H_{18}	Octane	96.6
C_8H_{18}	4-Methylheptane	97.3
C_8H_{18}	3-Ethylhexane	97.8
C_8H_{18}	3,4-Dimethylhexane	99.1
C_8H_{18}	2,2,4-Trimethylpentane	99.1
C_8H_{18}	2,3,4-Trimethylpentane	99.8
$C_8H_{18}O$	1-Octanol	101.6
$C_8H_{19}N$	Dibutylamine	103.7
C_9H_7N	Quinoline	86.1
C_9H_7N	Isoquinoline	83.9
C_9H_8	Indene	83
C_9H_{10}	Isopropenylbenzene	80.0
$C_9H_{10}O_2$	Ethyl benzoate	93.8
$C_9H_{10}O_2$	Benzyl acetate	93.2
C_9H_{12}	Propylbenzene	89.1

Molecular formula	Compound	$-\chi_m/10^{-6}$ cm^3 mol^{-1}
C_9H_{12}	Isopropylbenzene [Cumene]	89.5
C_9H_{12}	1,3,5-Trimethylbenzene [Mesitylene]	92.3
C_9H_{18}	1-Nonene	100.1
$C_9H_{18}O$	2,6-Dimethyl-4-heptanone	104.3
C_9H_{20}	Nonane	108.1
$C_{10}H_7Br$	1-Bromonaphthalene	123.6
$C_{10}H_7Cl$	1-Chloronaphthalene	107.6
$C_{10}H_8$	Naphthalene	91.6
$C_{10}H_8$	Azulene	123.7
$C_{10}H_8O$	1-Naphthol	96.2
$C_{10}H_8O$	2-Naphthol	96.8
$C_{10}H_9N$	1-Naphthalenamine	92.5
$C_{10}H_9N$	2-Naphthalenamine	98.0
$C_{10}H_{10}O_2$	Safrole	97.5
$C_{10}H_{10}O_4$	Dimethyl terephthalate	101.6
$C_{10}H_{14}$	Butylbenzene	100.7
$C_{10}H_{14}$	*tert*-Butylbenzene	101.8
$C_{10}H_{14}$	Isobutylbenzene	101.7
$C_{10}H_{14}$	*p*-Cymene	102.8
$C_{10}H_{14}$	1,2,4,5-Tetramethylbenzene	101.2
$C_{10}H_{14}O$	*p-tert*-Butylphenol	108.0
$C_{10}H_{15}N$	*N,N*-Diethylaniline	107.9
$C_{10}H_{16}$	*d*-Limonene	98.0
$C_{10}H_{16}$	α-Pinene	100.7
$C_{10}H_{16}$	β-Pinene	101.9
$C_{10}H_{16}O$	Camphor, (+)	103.0
$C_{10}H_{18}$	*cis*-Decahydronaphthalene	107.0
$C_{10}H_{18}$	*trans*-Decahydronaphthalene	107.6
$C_{10}H_{22}$	Decane	119.5
$C_{11}H_{10}$	1-Methylnaphthalene	102.9
$C_{11}H_{10}$	2-Methylnaphthalene	102.7
$C_{11}H_{24}$	Undecane	131.8
$C_{12}H_8$	Acenaphthylene	111.6
$C_{12}H_9N$	Carbazole	119.9
$C_{12}H_{10}$	Acenaphthene	109.9
$C_{12}H_{10}$	Biphenyl	103.3
$C_{12}H_{10}N_2$	Azobenzene	106.8
$C_{12}H_{11}N$	Diphenylamine	108.4
$C_{12}H_{14}O_4$	Diethyl phthalate	127.5
$C_{12}H_{18}$	Hexamethylbenzene	122.5
$C_{12}H_{24}O_2$	Dodecanoic acid	113.0
$C_{13}H_9N$	Acridine	118.8
$C_{13}H_{10}O$	Benzophenone	109.6
$C_{13}H_{12}$	Diphenylmethane	116.0
$C_{13}H_{28}$	Tridecane	153.7
$C_{14}H_8O_2$	9,10-Anthracenedione	113.0
$C_{14}H_{10}$	Anthracene	129.8
$C_{14}H_{10}$	Phenanthrene	127.6
$C_{14}H_{10}$	Diphenylacetylene	116
$C_{14}H_{10}O_2$	Benzil	106.8
$C_{14}H_{12}O_2$	Benzyl benzoate	132.2
$C_{14}H_{14}$	1,2-Diphenylethane	127.8
$C_{14}H_{28}O_2$	Tetradecanoic acid [Myristic acid]	176.0
$C_{14}H_{30}$	Tetradecane	166.2
$C_{16}H_{10}$	Pyrene	147
$C_{16}H_{32}O_2$	Hexadecanoic acid [Palmitic acid]	198.6
$C_{16}H_{34}$	Hexadecane	187.6
$C_{16}H_{34}O$	1-Hexadecanol	183.5
$C_{18}H_{12}$	Chrysene	148.0
$C_{18}H_{14}$	*o*-Terphenyl	150.4
$C_{18}H_{14}$	*m*-Terphenyl	155.5
$C_{18}H_{14}$	*p*-Terphenyl	156.0
$C_{18}H_{34}O_2$	*cis*-9-Octadecenoic acid [Oleic acid]	208.5
$C_{18}H_{36}O_2$	Octadecanoic acid [Stearic acid]	220.8
$C_{20}H_{12}$	Perylene	167.5