## ENTHALPY OF VAPORIZATION

The molar enthalpy (heat) of vaporization $\Delta_{vap}H$, which is defined as the enthalpy change in the conversion of one mole of liquid to gas at constant temperature, is tabulated here for approximately 850 inorganic and organic compounds. Values are given, when available, both at the normal boiling point $t_b$, referred to a pressure of 101.325 kPa (760 mmHg), and at 25°C. Substances are listed by molecular formula in the modified Hill order (see Preface).

The values in this table were measured either by calorimetric techniques or by application of the Claperyon equation to the variation of vapor pressure with temperature. See Reference 1 for a discussion of the accuracy of different experimental techniques and for methods of estimating enthalpy of vaporization at other temperatures.

## REFERENCES


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| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H$(25°C) kJ/mol |
|---|---|---|---|---|
| AgBr | Silver(I) bromide | 1502 | 198 | |
| AgCl | Silver(I) chloride | 1547 | 199 | |
| AgI | Silver(I) iodide | 1506 | 143.9 | |
| Al | Aluminum | 2519 | 294 | |
| $AlB_3H_{12}$ | Aluminum borohydride | 44.5 | 30 | |
| $AlBr_3$ | Aluminum tribromide | 255 | 23.5 | |
| $AlI_3$ | Aluminum triiodide | 382 | 32.2 | |
| Ar | Argon | -185.85 | 6.43 | |
| $AsBr_3$ | Arsenic(III) bromide | 221 | 41.8 | |
| $AsCl_3$ | Arsenic(III) chloride | 130 | 35.01 | |
| $AsF_3$ | Arsenic(III) fluoride | 57.8 | 29.7 | |
| $AsF_5$ | Arsenic(V) fluoride | -52.8 | 20.8 | |
| $AsH_3$ | Arsine | -62.5 | 16.69 | |
| $AsI_3$ | Arsenic(III) iodide | 424 | 59.3 | |
| Au | Gold | 2856 | 324 | |
| B | Boron | 4000 | 480 | |
| $BBr_3$ | Boron tribromide | 91 | 30.5 | |
| $BCl_3$ | Boron trichloride | 12.65 | 23.77 | 23.1 |
| $BF_3$ | Boron trifluoride | -101 | 19.33 | |
| $BI_3$ | Boron triiodide | 210 | 40.5 | |
| $B_2F_4$ | Tetrafluorodiborane | -34 | 28 | |
| $B_2H_6$ | Diborane | -92.4 | 14.28 | |
| $B_4H_{10}$ | Tetraborane | 18 | 27.1 | |
| $B_5H_{11}$ | Pentaborane(11) | 63 | 31.8 | |
| Ba | Barium | 1897 | 140 | |
| $BeCl_2$ | Beryllium chloride | 482 | 105 | |
| $BeI_2$ | Beryllium iodide | 487 | 70.5 | |
| Bi | Bismuth | 1564 | 151 | |
| $BiBr_3$ | Bismuth tribromide | 453 | 75.4 | |
| $BiCl_3$ | Bismuth trichloride | 447 | 72.61 | |
| BrF | Bromine fluoride | 20 | 25.1 | |
| $BrF_3$ | Bromine trifluoride | 125.8 | 47.57 | |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $BrF_5$ | Bromine pentafluoride | 40.76 | 30.6 | |
| BrH | Hydrogen bromide | -66.38 | | 12.69 |
| $BrH_3Si$ | Bromosilane | 1.9 | 24.4 | |
| BrIn | Indium(I) bromide | 656 | 92 | |
| BrTl | Thallium(I) bromide | 819 | 99.56 | |
| $Br_2$ | Bromine | 58.8 | 29.96 | 30.91 |
| $Br_2Cd$ | Cadmium bromide | 844 | 115 | |
| $Br_2H_2Si$ | Dibromosilane | 66 | 31 | |
| $Br_2Hg$ | Mercury(II) bromide | 322 | 58.89 | |
| $Br_2Pb$ | Lead(II) bromide | 892 | 133 | |
| $Br_2Sn$ | Tin(II) bromide | 639 | 102 | |
| $Br_2Zn$ | Zinc bromide | 697 | 118 | |
| $Br_3Ga$ | Gallium(III) bromide | 279 | 38.9 | |
| $Br_3HSi$ | Tribromosilane | 109 | 34.8 | |
| $Br_3OP$ | Phosphorus(V) oxybromide | 191.7 | 38 | |
| $Br_3P$ | Phosphorus(III) bromide | 172.95 | 38.8 | |
| $Br_3Sb$ | Antimony(III) bromide | 280 | 59 | |
| $Br_4Ge$ | Germanium(IV) bromide | 186.35 | 41.4 | |
| $Br_4Si$ | Tetrabromosilane | 154 | 37.9 | |
| $Br_4Sn$ | Tin(IV) bromide | 205 | 43.5 | |
| $Br_4Ti$ | Titanium(IV) bromide | 230 | 44.37 | |
| $Br_5Ta$ | Tantalum(V) bromide | 349 | 62.3 | |
| Cd | Cadmium | 767 | 99.87 | |
| $CdCl_2$ | Cadmium chloride | 960 | 124.3 | |
| $CdF_2$ | Cadmium fluoride | 1748 | 214 | |
| $CdI_2$ | Cadmium iodide | 742 | 115 | |
| ClF | Chlorine fluoride | -101.1 | 24 | |
| $ClFO_3$ | Perchloryl fluoride | -46.75 | 19.33 | |
| $ClF_2P$ | Phosphorus(III) chloride difluoride | -47.25 | 17.6 | |
| $ClF_3$ | Chlorine trifluoride | 11.75 | 27.53 | |
| $ClF_3Si$ | Chlorotrifluorosilane | -70.0 | 18.7 | |
| ClH | Hydrogen chloride | -85 | 16.15 | 9.08 |
| $ClH_3Si$ | Chlorosilane | -30.4 | 21 | |
| ClNO | Nitrosyl chloride | -5.5 | 25.78 | |
| $ClNO_2$ | Nitryl chloride | -15 | 25.7 | |
| $ClO_2$ | Chlorine dioxide | 11 | 30 | |
| ClTl | Thallium(I) chloride | 720 | 102.2 | |
| $Cl_2$ | Chlorine | -34.04 | 20.41 | 17.65 |
| $Cl_2Cr$ | Chromium(II) chloride | 1300 | 197 | |
| $Cl_2CrO_2$ | Chromyl chloride | 117 | 35.1 | |
| $Cl_2FP$ | Phosphorus(III) dichloride fluoride | 14 | 24.9 | |
| $Cl_2F_2Si$ | Dichlorodifluorosilane | -32 | 21.2 | |
| $Cl_2H_2Si$ | Dichlorosilane | 8.3 | 25 | 24.2 |
| $Cl_2Hg$ | Mercury(II) chloride | 304 | 58.9 | |
| $Cl_2O$ | Chlorine monoxide | 2.2 | 25.9 | |
| $Cl_2OS$ | Thionyl chloride | 75.6 | 31.7 | 31 |
| $Cl_2O_2S$ | Sulfuryl chloride | 69.4 | 31.4 | 30.1 |
| $Cl_2Pb$ | Lead(II) chloride | 951 | 127 | |
| $Cl_2Sn$ | Tin(II) chloride | 623 | 86.8 | |
| $Cl_2Ti$ | Titanium(II) chloride | 1500 | 232 | |
| $Cl_2Zn$ | Zinc chloride | 732 | 126 | |
| $Cl_3Ga$ | Gallium(III) chloride | 201 | 23.9 | |
| $Cl_3HSi$ | Trichlorosilane | 33 | | 25.7 |
| $Cl_3OP$ | Phosphorus(V) oxychloride | 105.5 | 34.35 | 38.6 |
| $Cl_3OV$ | Vanadyl trichloride | 127 | 36.78 | |
| $Cl_3P$ | Phosphorus(III) chloride | 75.95 | 30.5 | 32.1 |
| $Cl_3Sb$ | Antimony(III) chloride | 220.3 | 45.19 | |
| $Cl_3Ti$ | Titanium(III) chloride | 960 | 124 | |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $Cl_4Ge$ | Germanium(IV) chloride | 86.55 | 27.9 | |
| $Cl_4OW$ | Tungsten(VI) oxytetrachloride | 227.55 | 67.8 | |
| $Cl_4Si$ | Tetrachlorosilane | 57.65 | 28.7 | 29.7 |
| $Cl_4Sn$ | Tin(IV) chloride | 114.15 | 34.9 | |
| $Cl_4Te$ | Tellurium tetrachloride | 387 | 77 | |
| $Cl_4Th$ | Thorium(IV) chloride | 921 | 146.4 | |
| $Cl_4Ti$ | Titanium(IV) chloride | 136.45 | 36.2 | |
| $Cl_4V$ | Vanadium(IV) chloride | 148 | 41.4 | 42.5 |
| $Cl_5Mo$ | Molybdenum(V) chloride | 268 | 62.8 | |
| $Cl_5Nb$ | Niobium(V) chloride | 254.0 | 52.7 | |
| $Cl_5Ta$ | Tantalum(V) chloride | 239.35 | 54.8 | |
| $Cl_6W$ | Tungsten(VI) chloride | 346.75 | 52.7 | |
| $FH_3Si$ | Fluorosilane | -98.6 | 18.8 | |
| FLi | Lithium fluoride | 1673 | 147 | |
| FNO | Nitrosyl fluoride | -59.9 | 19.28 | |
| $FNO_2$ | Nitryl fluoride | -72.4 | 18.05 | |
| FNS | Thionitrosyl fluoride (NSF) | 4.8 | 22.2 | |
| $F_2$ | Fluorine | -188.12 | 6.62 | |
| $F_2H_2Si$ | Difluorosilane | -77.8 | 16.3 | |
| $F_2O$ | Fluorine monoxide | -144.75 | 11.09 | |
| $F_2OS$ | Thionyl fluoride | -43.8 | 21.8 | |
| $F_2O_2$ | Fluorine dioxide | -57 | 19.1 | |
| $F_2Pb$ | Lead(II) fluoride | 1293 | 160.4 | |
| $F_2Zn$ | Zinc fluoride | 1500 | 190.1 | |
| $F_3HSi$ | Trifluorosilane | -95 | 16.2 | |
| $F_3N$ | Nitrogen trifluoride | -128.75 | 11.56 | |
| $F_3O_2Re$ | Rhenium(VII) dioxytrifluoride | 185.4 | 65.7 | |
| $F_3P$ | Phosphorus(III) fluoride | -101.5 | 16.5 | |
| $F_3PS$ | Phosphorus(V) sulfide trifluoride | -52.25 | 19.6 | |
| $F_4MoO$ | Molybdenum(VI) oxytetrafluoride | 186.0 | 50.6 | |
| $F_4N_2$ | Tetrafluorohydrazine | -74 | 13.27 | |
| $F_4ORe$ | Rhenium(VI) oxytetrafluoride | 171.7 | 61.0 | |
| $F_4OW$ | Tungsten(VI) oxytetrafluoride | 185.9 | 59.5 | |
| $F_4S$ | Sulfur tetrafluoride | -40.45 | 26.44 | |
| $F_4Se$ | Selenium tetrafluoride | 106 | 47.2 | |
| $F_4Th$ | Thorium(IV) fluoride | 1680 | 258 | |
| $F_5I$ | Iodine pentafluoride | 100.5 | 41.3 | |
| $F_5Mo$ | Molybdenum(V) fluoride | 213.6 | 51.8 | |
| $F_5Nb$ | Niobium(V) fluoride | 229 | 52.3 | |
| $F_5Os$ | Osmium(V) fluoride | 225.9 | 65.6 | |
| $F_5P$ | Phosphorus(V) fluoride | -84.6 | 17.2 | |
| $F_5Re$ | Rhenium(V) fluoride | 221.3 | 58.1 | |
| $F_5Ta$ | Tantalum(V) fluoride | 229.2 | 56.9 | |
| $F_5V$ | Vanadium(V) fluoride | 48.3 | 44.52 | |
| $F_6Ir$ | Iridium(VI) fluoride | 53.6 | 30.9 | |
| $F_6Mo$ | Molybdenum(VI) fluoride | 34.0 | 29.0 | |
| $F_6Os$ | Osmium(VI) fluoride | 47.5 | 28.1 | |
| $F_6Re$ | Rhenium(VI) fluoride | 33.8 | 28.7 | |
| $F_6S$ | Sulfur hexafluoride | | | 8.99 |
| $F_6W$ | Tungsten(VI) fluoride | 17.1 | 26.5 | |
| Ga | Gallium | 2204 | 254 | |
| $GaI_3$ | Gallium(III) iodide | 340 | 56.5 | |
| Ge | Germanium | 2833 | 334 | |
| $GeH_4$ | Germane | -88.1 | 14.06 | |
| $Ge_2H_6$ | Digermane | 30.8 | 25.1 | |
| $Ge_3H_8$ | Trigermane | 110.5 | 32.2 | |
| HI | Hydrogen iodide | -35.55 | 19.76 | 17.36 |
| HLiO | Lithium hydroxide | 1626 | 188 | |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $HNO_3$ | Nitric acid | 83 | | 39.1 |
| $HN_3$ | Hydrazoic acid | 35.7 | 30.5 | |
| HNaO | Sodium hydroxide | 1388 | 175 | |
| $H_2$ | Hydrogen | -252.87 | 0.90 | |
| $H_2O$ | Water | 100.0 | 40.65 | 43.98 |
| $H_2O_2$ | Hydrogen peroxide | 150.2 | | 51.6 |
| $H_2S$ | Hydrogen sulfide | -59.55 | 18.67 | 14.08 |
| $H_2S_2$ | Hydrogen disulfide | 70.7 | | 33.78 |
| $H_2Se$ | Hydrogen selenide | -41.25 | 19.7 | |
| $H_2Te$ | Hydrogen telluride | -2 | 19.2 | |
| $H_3N$ | Ammonia | -33.33 | 23.33 | 19.86 |
| $H_3P$ | Phosphine | -87.75 | 14.6 | |
| $H_3Sb$ | Stibine | -17 | 21.3 | |
| $H_4N_2$ | Hydrazine | 113.55 | 41.8 | 44.7 |
| $H_4P_2$ | Diphosphine | 63.5 | 28.8 | |
| $H_4Si$ | Silane | -111.9 | 12.1 | |
| $H_4Sn$ | Stannane | -51.8 | 19.05 | |
| $H_6Si_2$ | Disilane | -14.3 | 21.2 | |
| $H_8Si_3$ | Trisilane | 52.9 | 28.5 | |
| He | Helium | -268.93 | 0.08 | |
| Hg | Mercury | 356.73 | 59.11 | |
| $HgI_2$ | Mercury(II) iodide | 354 | 59.2 | |
| IIn | Indium(I) iodide | 712 | 90.8 | |
| ITl | Thallium(I) iodide | 824 | 104.7 | |
| $I_2$ | Iodine | 184.4 | 41.57 | |
| $I_2Pb$ | Lead(II) iodide | 872 | 104 | |
| $I_2Sn$ | Tin(II) iodide | 714 | 105 | |
| $I_3P$ | Phosphorus(III) iodide | 227 | 43.9 | |
| $I_3Sb$ | Antimony(III) iodide | 401 | 68.6 | |
| $I_4Si$ | Tetraiodosilane | 287.35 | 50.2 | |
| $I_4Sn$ | Tin(IV) iodide | 364.35 | 56.9 | |
| $I_4Ti$ | Titanium(IV) iodide | 377 | 58.4 | |
| Kr | Krypton | -153.22 | 9.08 | |
| $MoO_3$ | Molybdenum(VI) oxide | 1155 | 138 | |
| NO | Nitric oxide | -151.74 | 13.83 | |
| $N_2$ | Nitrogen | -195.79 | 5.57 | |
| $N_2O$ | Nitrous oxide | -88.48 | 16.53 | |
| $N_2O_4$ | Nitrogen tetroxide | 21.15 | 38.12 | |
| Ne | Neon | -246.08 | 1.71 | |
| $O_2$ | Oxygen | -182.95 | 6.82 | |
| $O_2S$ | Sulfur dioxide | -10.05 | 24.94 | 22.92 |
| $O_3S$ | Sulfur trioxide | 45 | 40.69 | 43.14 |
| P | Phosphorus | 280.5 | 12.4 | 14.2 |
| Pb | Lead | 1749 | 179.5 | |
| S | Sulfur | 444.60 | 45 | |
| $STl_2$ | Thallium(I) sulfide | 1367 | 154 | |
| Se | Selenium | 685 | 95.48 | |
| Te | Tellurium | 988 | 114.1 | |
| Xe | Xenon | -108.11 | 12.57 | |
| $CClF_3$ | Chlorotrifluoromethane | -81.4 | 15.8 | |
| $CCl_2F_2$ | Dichlorodifluoromethane | -29.8 | 20.1 | |
| $CCl_3F$ | Trichlorofluoromethane | 23.7 | 25.1 | |
| $CCl_4$ | Tetrachloromethane | 76.8 | 29.82 | 32.43 |
| $CHBr_3$ | Tribromomethane | 149.1 | 39.66 | 46.05 |
| $CHClF_2$ | Chlorodifluoromethane | -40.7 | 20.2 | |
| $CHCl_2F$ | Dichlorofluoromethane | 8.9 | 25.2 | |
| $CHCl_3$ | Trichloromethane | 61.17 | 29.24 | 31.28 |
| $CH_2BrCl$ | Bromochloromethane | 68.0 | 30.0 | |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $CH_2Br_2$ | Dibromomethane | 97 | 32.92 | 36.97 |
| $CH_2Cl_2$ | Dichloromethane | 40 | 28.06 | 28.82 |
| $CH_2I_2$ | Diiodomethane | 182 | 42.5 | |
| $CH_2O_2$ | Formic acid | 101 | 22.69 | 20.10 |
| $CH_3Br$ | Bromomethane | 3.5 | 23.91 | 22.81 |
| $CH_3Cl$ | Chloromethane | -24.09 | 21.40 | 18.92 |
| $CH_3I$ | Iodomethane | 42.55 | 27.34 | 27.97 |
| $CH_3NO$ | Formamide | 220 | | 60.15 |
| $CH_3NO_2$ | Nitromethane | 101.19 | 33.99 | 38.27 |
| $CH_4$ | Methane | -161.48 | 8.19 | |
| $CH_4O$ | Methanol | 64.6 | 35.21 | 37.43 |
| $CH_5N$ | Methylamine | -6.32 | 25.60 | 23.37 |
| $CH_6N_2$ | Methylhydrazine | 87.5 | 36.12 | 40.37 |
| $CN_4O_8$ | Tetranitromethane | 126.1 | 40.74 | 49.93 |
| CO | Carbon monoxide | -191.5 | 6.04 | |
| $CS_2$ | Carbon disulfide | 46 | 26.74 | 27.51 |
| $C_2Br_2ClF_3$ | 1,2-Dibromo-1-chloro-1,2,2-trifluoroethane | 93 | 31.17 | 35.04 |
| $C_2Br_2F_4$ | 1,2-Dibromotetrafluoroethane | 47.35 | 27.03 | 28.39 |
| $C_2ClF_5$ | Chloropentafluoroethane | -37.95 | 19.41 | |
| $C_2Cl_2F_4$ | 1,2-Dichlorotetrafluoroethane | 3.8 | 23.3 | |
| $C_2Cl_3F_3$ | 1,1,1-Trichlorotrifluoroethane | 46.1 | 26.85 | 28.08 |
| $C_2Cl_3F_3$ | 1,1,2-Trichloro-1,2,2-trifluoroethane | 47.7 | 27.04 | 28.40 |
| $C_2Cl_4$ | Tetrachloroethylene | 121.3 | 34.68 | 39.68 |
| $C_2F_6$ | Hexafluoroethane | -78.1 | 16.15 | |
| $C_2HBrClF_3$ | 2-Bromo-2-chloro-1,1,1-trifluoroethane | 50.2 | 28.08 | 29.61 |
| $C_2HCl_3$ | Trichloroethylene | 87.21 | 31.40 | 34.54 |
| $C_2HCl_5$ | Pentachloroethane | 159.8 | 36.9 | |
| $C_2HF_3O_2$ | Trifluoroacetic acid | 73 | 33.3 | |
| $C_2H_2Br_4$ | 1,1,2,2-Tetrabromoethane | 243.5 | 48.7 | |
| $C_2H_2Cl_2$ | 1,1-Dichloroethylene | 31.6 | 26.14 | 26.48 |
| $C_2H_2Cl_2$ | *cis*-1,2-Dichloroethylene | 60.1 | 30.2 | |
| $C_2H_2Cl_2$ | *trans*-1,2-Dichloroethylene | 48.7 | 28.9 | |
| $C_2H_2Cl_4$ | 1,1,2,2-Tetrachloroethane | 146.5 | 37.64 | 45.71 |
| $C_2H_3Br$ | Bromoethylene | 15.8 | 23.4 | |
| $C_2H_3Cl$ | Chloroethylene | -13.3 | 20.8 | |
| $C_2H_3Cl_2F$ | 1,1-Dichloro-1-fluoroethane | 32.0 | 26.06 | 26.48 |
| $C_2H_3Cl_3$ | 1,1,1-Trichloroethane | 74.09 | 29.86 | 32.50 |
| $C_2H_3Cl_3$ | 1,1,2-Trichloroethane | 113.8 | 34.82 | 40.24 |
| $C_2H_3F_3$ | 1,1,1-Trifluoroethane | -47.25 | 18.99 | |
| $C_2H_3N$ | Acetonitrile | 81.65 | 29.75 | 32.94 |
| $C_2H_4$ | Ethylene | -103.77 | 13.53 | |
| $C_2H_4Br_2$ | 1,2-Dibromoethane | 131.6 | 34.77 | 41.73 |
| $C_2H_4Cl_2$ | 1,1-Dichloroethane | 57.4 | 28.85 | 30.62 |
| $C_2H_4Cl_2$ | 1,2-Dichloroethane | 83.5 | 31.98 | 35.16 |
| $C_2H_4F_2$ | 1,1-Difluoroethane | -24.95 | 21.56 | 19.08 |
| $C_2H_4O$ | Acetaldehyde | 20.1 | 25.76 | 25.47 |
| $C_2H_4O$ | Ethylene oxide | 10.6 | 25.54 | 24.75 |
| $C_2H_4O_2$ | Acetic acid | 117.9 | 23.70 | 23.36 |
| $C_2H_4O_2$ | Methyl formate | 31.7 | 27.92 | 28.35 |
| $C_2H_5Br$ | Bromoethane | 38.5 | 27.04 | 28.03 |
| $C_2H_5Cl$ | Chloroethane | 12.3 | 24.65 | |
| $C_2H_5ClO$ | 2-Chloroethanol | 128.6 | 41.4 | |
| $C_2H_5I$ | Iodoethane | 72.5 | 29.44 | 31.93 |
| $C_2H_5NO$ | *N*-Methylformamide | 199.51 | | 56.19 |
| $C_2H_5NO_2$ | Nitroethane | 114.0 | 38.0 | |
| $C_2H_6$ | Ethane | -88.6 | 14.69 | 5.16 |
| $C_2H_6O$ | Ethanol | 78.29 | 38.56 | 42.32 |
| $C_2H_6O$ | Dimethyl ether | -24.8 | 21.51 | 18.51 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_2H_6OS$ | Dimethyl sulfoxide | 189 | 43.1 | |
| $C_2H_6O_2$ | Ethylene glycol | 197.3 | 50.5 | |
| $C_2H_6S$ | Ethanethiol | 35.1 | 26.79 | 27.30 |
| $C_2H_6S$ | Dimethyl sulfide | 37.33 | 27.0 | 27.65 |
| $C_2H_6S_2$ | 1,2-Ethanedithiol | 146.1 | 37.93 | 44.68 |
| $C_2H_6S_2$ | Dimethyl disulfide | 109.8 | 33.78 | 37.86 |
| $C_2H_7N$ | Dimethylamine | 6.88 | 26.40 | 25.05 |
| $C_2H_7NO$ | Ethanolamine | 171 | 49.83 | |
| $C_2H_8N_2$ | 1,2-Ethanediamine | 117 | 37.98 | 44.98 |
| $C_2H_8N_2$ | 1,1-Dimethylhydrazine | 63.9 | 32.55 | 35.0 |
| $C_2N_2$ | Cyanogen | -21.1 | 23.33 | 19.75 |
| $C_3Cl_2F_6$ | 1,2-Dichlorohexafluoropropane | 34.1 | 26.28 | 26.93 |
| $C_3H_3Cl_3O_2$ | Methyl trichloroacetate | 153.8 | | 48.33 |
| $C_3H_3N$ | Acrylonitrile | 77.3 | 32.6 | |
| $C_3H_4Cl_2O_2$ | Methyl dichloroacetate | 142.9 | 39.28 | 47.72 |
| $C_3H_4O$ | Acrolein | 52.6 | 28.3 | |
| $C_3H_4O_2$ | 2-Oxetanone | 162 | | 47.03 |
| $C_3H_5Br$ | 3-Bromopropene | 70.1 | 30.24 | 32.73 |
| $C_3H_5Cl$ | 3-Chloropropene | 45.1 | 29.0 | |
| $C_3H_5ClO_2$ | Methyl chloroacetate | 129.5 | 39.23 | 46.73 |
| $C_3H_5Cl_3$ | 1,2,3-Trichloropropane | 157 | 37.1 | |
| $C_3H_5N$ | Propanenitrile | 97.14 | 31.81 | 36.03 |
| $C_3H_6$ | Propene | -47.69 | 18.42 | 14.24 |
| $C_3H_6$ | Cyclopropane | -32.81 | 20.05 | 16.93 |
| $C_3H_6Br_2$ | 1,2-Dibromopropane | 141.9 | 35.61 | 41.67 |
| $C_3H_6Br_2$ | 1,3-Dibromopropane | 167.3 | | 47.45 |
| $C_3H_6Cl_2$ | 1,3-Dichloropropane | 120.9 | 35.18 | 40.75 |
| $C_3H_6O$ | Allyl alcohol | 97.0 | 40.0 | |
| $C_3H_6O$ | Propanal | 48 | 28.31 | 29.62 |
| $C_3H_6O$ | Acetone | 56.05 | 29.10 | 30.99 |
| $C_3H_6O$ | Methyloxirane | 35 | 27.35 | 27.89 |
| $C_3H_6O$ | Oxetane | 47.6 | 28.67 | 29.85 |
| $C_3H_6O_2$ | Propanoic acid | 141.15 | | 32.14 |
| $C_3H_6O_2$ | Ethyl formate | 54.4 | 29.91 | 31.96 |
| $C_3H_6O_2$ | Methyl acetate | 56.87 | 30.32 | 32.29 |
| $C_3H_6S$ | Thietane | 95 | 32.32 | 35.97 |
| $C_3H_7Br$ | 1-Bromopropane | 71.1 | 29.84 | 32.01 |
| $C_3H_7Br$ | 2-Bromopropane | 59.5 | 28.33 | 30.17 |
| $C_3H_7Cl$ | 1-Chloropropane | 46.5 | 27.18 | 28.35 |
| $C_3H_7Cl$ | 2-Chloropropane | 35.7 | 26.30 | 26.90 |
| $C_3H_7I$ | 1-Iodopropane | 102.6 | 32.08 | 36.25 |
| $C_3H_7I$ | 2-Iodopropane | 89.5 | 30.68 | 34.06 |
| $C_3H_7NO$ | *N*-Ethylformamide | 198 | | 58.44 |
| $C_3H_7NO$ | *N,N*-Dimethylformamide | 153 | | 46.89 |
| $C_3H_7NO_2$ | 1-Nitropropane | 131.1 | 38.5 | |
| $C_3H_7NO_2$ | 2-Nitropropane | 120.2 | 36.8 | |
| $C_3H_8$ | Propane | -42.1 | 19.04 | 14.79 |
| $C_3H_8O$ | 1-Propanol | 97.2 | 41.44 | 47.45 |
| $C_3H_8O$ | 2-Propanol | 82.3 | 39.85 | 45.39 |
| $C_3H_8O_2$ | 1,2-Propylene glycol | 187.6 | 52.4 | |
| $C_3H_8O_2$ | 1,3-Propylene glycol | 214.4 | 57.9 | |
| $C_3H_8O_2$ | Ethylene glycol monomethyl ether | 124.1 | 37.54 | 45.17 |
| $C_3H_8O_3$ | Glycerol | 290 | 61.0 | |
| $C_3H_8S$ | 1-Propanethiol | 67.8 | 29.54 | 31.89 |
| $C_3H_8S$ | 2-Propanethiol | 52.6 | 27.91 | 29.45 |
| $C_3H_8S$ | Ethyl methyl sulfide | 66.7 | 29.53 | 31.85 |
| $C_3H_8S_2$ | 1,3-Propanedithiol | 172.9 | | 49.66 |
| $C_3H_9N$ | Propylamine | 47.22 | 29.55 | 31.27 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_3H_9N$ | Isopropylamine | 31.76 | 27.83 | 28.36 |
| $C_3H_9N$ | Trimethylamine | 2.87 | 22.94 | 21.66 |
| $C_3H_{10}N_2$ | 1,3-Propanediamine | 139.8 | 40.85 | 50.16 |
| $C_4F_8$ | Perfluorocyclobutane | -5.9 | 23.2 | |
| $C_4F_{10}$ | Perfluorobutane | -1.9 | 22.9 | |
| $C_4H_4N_2$ | Succinonitrile | 266 | 48.5 | |
| $C_4H_4N_2$ | Pyrimidine | 123.8 | 43.09 | 49.79 |
| $C_4H_4N_2$ | Pyridazine | 208 | | 53.47 |
| $C_4H_4O$ | Furan | 31.5 | 27.10 | 27.45 |
| $C_4H_4O_2$ | Diketene | 126.1 | 36.80 | 42.89 |
| $C_4H_4S$ | Thiophene | 84.0 | 31.48 | 34.70 |
| $C_4H_5Cl_3O_2$ | Ethyl trichloroacetate | 167.5 | | 50.97 |
| $C_4H_5N$ | 2-Methylacrylonitrile | 90.3 | 31.8 | |
| $C_4H_5N$ | Pyrrole | 129.79 | 38.75 | 45.09 |
| $C_4H_5N$ | Cyclopropanecarbonitrile | 135.1 | 35.55 | 41.94 |
| $C_4H_5NO_2$ | Methyl cyanoacetate | 200.5 | 48.2 | |
| $C_4H_5NS$ | 4-Methylthiazole | 133.3 | 37.58 | 43.85 |
| $C_4H_6$ | 1,2-Butadiene | 10.9 | 24.02 | 23.21 |
| $C_4H_6$ | 1,3-Butadiene | -4.41 | 22.47 | 20.86 |
| $C_4H_6$ | 1-Butyne | 8.08 | 24.52 | 23.35 |
| $C_4H_6Cl_2O_2$ | Ethyl dichloroacetate | 155 | | 50.60 |
| $C_4H_6O_2$ | Vinyl acetate | 72.5 | 34.6 | |
| $C_4H_6O_2$ | Methyl acrylate | 80.7 | 33.1 | |
| $C_4H_6O_2$ | γ-Butyrolactone | 204 | 52.2 | |
| $C_4H_6O_3$ | Acetic anhydride | 139.5 | 38.2 | |
| $C_4H_6S$ | 2,3-Dihydrothiophene | 112.1 | 33.24 | 37.74 |
| $C_4H_6S$ | 2,5-Dihydrothiophene | 122.4 | 34.83 | 39.95 |
| $C_4H_7ClO_2$ | Ethyl chloroacetate | 144.3 | 40.43 | 49.47 |
| $C_4H_7N$ | Butanenitrile | 117.6 | 33.68 | 39.33 |
| $C_4H_7N$ | 2-Methylpropanenitrile | 103.9 | 32.39 | 37.13 |
| $C_4H_8$ | 1-Butene | -6.26 | 22.07 | 20.22 |
| $C_4H_8$ | *cis*-2-Butene | 3.71 | 23.34 | 22.16 |
| $C_4H_8$ | *trans*-2-Butene | 0.88 | 22.72 | 21.40 |
| $C_4H_8$ | Cyclobutane | 12.6 | 24.19 | 23.51 |
| $C_4H_8Br_2$ | 1,4-Dibromobutane | 197 | | 53.09 |
| $C_4H_8Cl_2$ | 1,2-Dichlorobutane | 124.1 | 33.90 | 39.58 |
| $C_4H_8Cl_2$ | 1,4-Dichlorobutane | 161 | | 46.36 |
| $C_4H_8Cl_2O$ | Bis(2-chloroethyl) ether | 178.5 | 45.2 | |
| $C_4H_8O$ | Ethyl vinyl ether | 35.5 | 26.2 | |
| $C_4H_8O$ | 1,2-Epoxybutane | 63.4 | 30.3 | |
| $C_4H_8O$ | Butanal | 74.8 | 31.5 | |
| $C_4H_8O$ | 2-Butanone | 79.59 | 31.30 | 34.79 |
| $C_4H_8O$ | Tetrahydrofuran | 65 | 29.81 | 31.99 |
| $C_4H_8O_2$ | Butanoic acid | 163.75 | | 40.45 |
| $C_4H_8O_2$ | 2-Methylpropanoic acid | 154.45 | | 35.30 |
| $C_4H_8O_2$ | Propyl formate | 80.9 | 33.61 | 37.53 |
| $C_4H_8O_2$ | Ethyl acetate | 77.11 | 31.94 | 35.60 |
| $C_4H_8O_2$ | Methyl propanoate | 79.8 | 32.24 | 35.85 |
| $C_4H_8O_2$ | 1,3-Dioxane | 106.1 | 34.37 | 39.09 |
| $C_4H_8O_2$ | 1,4-Dioxane | 101.5 | 34.16 | 38.60 |
| $C_4H_8S$ | Tetrahydrothiophene | 121.0 | 34.66 | 39.43 |
| $C_4H_9Br$ | 1-Bromobutane | 101.6 | 32.51 | 36.64 |
| $C_4H_9Br$ | 2-Bromobutane | 91.3 | 30.77 | 34.41 |
| $C_4H_9Br$ | 1-Bromo-2-methylpropane | 91.1 | 31.33 | 34.82 |
| $C_4H_9Br$ | 2-Bromo-2-methylpropane | 73.3 | 29.23 | 31.81 |
| $C_4H_9Cl$ | 1-Chlorobutane | 78.6 | 30.39 | 33.51 |
| $C_4H_9Cl$ | 2-Chlorobutane | 68.2 | 29.17 | 31.53 |
| $C_4H_9Cl$ | 1-Chloro-2-methylpropane | 68.5 | 29.22 | 31.67 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_4H_9Cl$ | 2-Chloro-2-methylpropane | 50.9 | 27.55 | 28.98 |
| $C_4H_9I$ | 1-Iodobutane | 130.6 | 34.66 | 40.63 |
| $C_4H_9I$ | 2-Iodobutane | 120.1 | 33.27 | 38.46 |
| $C_4H_9I$ | 1-Iodo-2-methylpropane | 121.1 | 33.54 | 38.83 |
| $C_4H_9I$ | 2-Iodo-2-methylpropane | 100.1 | 31.43 | 35.41 |
| $C_4H_9N$ | Pyrrolidine | 86.56 | 33.01 | 37.52 |
| $C_4H_9NO$ | *N*-Ethylacetamide | 205 | | 64.89 |
| $C_4H_9NO$ | *N,N*-Dimethylacetamide | 165 | | 50.24 |
| $C_4H_9NO$ | Morpholine | 128 | 37.1 | |
| $C_4H_{10}$ | Butane | -0.5 | 22.44 | 21.02 |
| $C_4H_{10}$ | Isobutane | -11.73 | 21.30 | 19.23 |
| $C_4H_{10}O$ | 1-Butanol | 117.73 | 43.29 | 52.35 |
| $C_4H_{10}O$ | 2-Butanol | 99.51 | 40.75 | 49.72 |
| $C_4H_{10}O$ | 2-Methyl-1-propanol | 107.89 | 41.82 | 50.82 |
| $C_4H_{10}O$ | 2-Methyl-2-propanol | 82.4 | 39.07 | 46.69 |
| $C_4H_{10}O$ | Diethyl ether | 34.5 | 26.52 | 27.10 |
| $C_4H_{10}O$ | Methyl propyl ether | 39.1 | 26.75 | 27.60 |
| $C_4H_{10}O$ | Isopropyl methyl ether | 30.77 | 26.05 | 26.41 |
| $C_4H_{10}O_2$ | 1,2-Butanediol | 190.5 | 52.84 | 71.55 |
| $C_4H_{10}O_2$ | 1,3-Butanediol | 207.5 | 54.31 | 74.46 |
| $C_4H_{10}O_2$ | Ethylene glycol monoethyl ether | 135 | 39.22 | 48.21 |
| $C_4H_{10}O_2$ | Ethylene glycol dimethyl ether | 85 | 32.42 | 36.39 |
| $C_4H_{10}O_3$ | Diethylene glycol | 245.8 | 52.3 | |
| $C_4H_{10}S$ | 1-Butanethiol | 98.5 | 32.23 | 36.63 |
| $C_4H_{10}S$ | 2-Butanethiol | 85 | 30.59 | 33.99 |
| $C_4H_{10}S$ | 2-Methyl-1-propanethiol | 88.5 | 31.01 | 34.63 |
| $C_4H_{10}S$ | 2-Methyl-2-propanethiol | 64.3 | 28.45 | 30.78 |
| $C_4H_{10}S$ | Diethyl sulfide | 92.1 | 31.77 | 35.80 |
| $C_4H_{10}S$ | Methyl propyl sulfide | 95.6 | 32.08 | 36.24 |
| $C_4H_{10}S$ | Isopropyl methyl sulfide | 84.8 | 30.71 | 34.15 |
| $C_4H_{10}S_2$ | 1,4-Butanedithiol | 195.5 | | 55.10 |
| $C_4H_{10}S_2$ | Diethyl disulfide | 154.1 | 37.58 | 45.18 |
| $C_4H_{11}N$ | Butylamine | 77.00 | 31.81 | 35.72 |
| $C_4H_{11}N$ | *sec*-Butylamine | 62.73 | 29.92 | 32.85 |
| $C_4H_{11}N$ | *tert*-Butylamine | 44.04 | 28.27 | 29.64 |
| $C_4H_{11}N$ | Isobutylamine | 67.75 | 30.61 | 33.85 |
| $C_4H_{11}N$ | Diethylamine | 55.5 | 29.06 | 31.31 |
| $C_4H_{11}N$ | Isopropylmethylamine | 50.4 | 28.71 | 30.69 |
| $C_4H_{11}NO$ | 2-Amino-2-methyl-1-propanol | 165.5 | 50.6 | |
| $C_4H_{11}NO_2$ | Diethanolamine | 268.8 | 65.2 | |
| $C_5H_2F_6O_2$ | Hexafluoroacetylacetone | 54.15 | 27.05 | 30.58 |
| $C_5H_4O_2$ | Furfural | 161.7 | 43.2 | |
| $C_5H_5N$ | Pyridine | 115.23 | 35.09 | 40.21 |
| $C_5H_6O_2$ | Furfuryl alcohol | 171 | 53.6 | |
| $C_5H_6S$ | 2-Methylthiophene | 112.6 | 33.90 | 38.87 |
| $C_5H_6S$ | 3-Methylthiophene | 115.5 | 34.24 | 39.43 |
| $C_5H_7N$ | *trans*-3-Pentenenitrile | 142.6 | 37.09 | 44.77 |
| $C_5H_7N$ | Cyclobutanecarbonitrile | 149.6 | 36.88 | 44.34 |
| $C_5H_8$ | Spiropentane | 39 | 26.76 | 27.49 |
| $C_5H_8O$ | Cyclopropyl methyl ketone | 111.3 | 34.07 | 39.41 |
| $C_5H_8O$ | Cyclopentanone | 130.57 | 36.35 | 42.72 |
| $C_5H_8O_2$ | Methyl cyclopropanecarboxylate | 114.9 | 35.25 | 41.27 |
| $C_5H_8O_2$ | Allyl acetate | 103.5 | 36.3 | |
| $C_5H_8O_2$ | Ethyl acrylate | 99.4 | 34.7 | |
| $C_5H_8O_2$ | Methyl methacrylate | 100.5 | 36.0 | |
| $C_5H_8O_2$ | 2,4-Pentanedione | 138 | 34.30 | 41.77 |
| $C_5H_9N$ | Pentanenitrile | 141.3 | 36.09 | 43.60 |
| $C_5H_9N$ | 3-Methylbutanenitrile | 127.5 | 35.10 | 41.64 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_5H_9N$ | 2,2-Dimethylpropanenitrile | 106.1 | 32.40 | 37.35 |
| $C_5H_{10}$ | 1-Pentene | 29.96 | 25.20 | 25.47 |
| $C_5H_{10}$ | *cis*-2-Pentene | 36.93 | | 26.86 |
| $C_5H_{10}$ | *trans*-2-Pentene | 36.34 | | 26.76 |
| $C_5H_{10}$ | 2-Methyl-1-butene | 31.2 | 25.50 | 25.92 |
| $C_5H_{10}$ | 3-Methyl-1-butene | 20.1 | | 23.77 |
| $C_5H_{10}$ | 2-Methyl-2-butene | 38.56 | 26.31 | 27.06 |
| $C_5H_{10}$ | Cyclopentane | 49.3 | 27.30 | 28.52 |
| $C_5H_{10}Cl_2$ | 1,2-Dichloropentane | 148.3 | 36.45 | 43.89 |
| $C_5H_{10}Cl_2$ | 1,5-Dichloropentane | 179 | | 50.71 |
| $C_5H_{10}O$ | Cyclopentanol | 140.42 | | 57.05 |
| $C_5H_{10}O$ | 2-Pentanone | 102.26 | 33.44 | 38.40 |
| $C_5H_{10}O$ | 3-Pentanone | 101.96 | 33.45 | 38.52 |
| $C_5H_{10}O$ | 3-Methyl-2-butanone | 94.33 | 32.35 | 36.78 |
| $C_5H_{10}O$ | 3,3-Dimethyloxetane | 80.6 | 30.85 | 33.94 |
| $C_5H_{10}O$ | Tetrahydropyran | 88 | 31.17 | 34.58 |
| $C_5H_{10}O_2$ | Pentanoic acid | 186.1 | 44.1 | |
| $C_5H_{10}O_2$ | 2-Methylbutanoic acid | 177 | | 46.91 |
| $C_5H_{10}O_2$ | Butyl formate | 106.1 | 36.58 | 41.11 |
| $C_5H_{10}O_2$ | Isobutyl formate | 98.2 | 33.6 | |
| $C_5H_{10}O_2$ | Propyl acetate | 101.54 | 33.92 | 39.72 |
| $C_5H_{10}O_2$ | Isopropyl acetate | 88.6 | 32.93 | 37.20 |
| $C_5H_{10}O_2$ | Ethyl propanoate | 99.1 | 33.88 | 39.21 |
| $C_5H_{10}O_2$ | Methyl butanoate | 102.8 | 33.79 | 39.28 |
| $C_5H_{10}O_2$ | Methyl isobutanoate | 92.5 | 32.61 | 37.32 |
| $C_5H_{10}O_2$ | Tetrahydrofurfuryl alcohol | 178 | 45.2 | |
| $C_5H_{10}O_3$ | Diethyl carbonate | 126 | | 43.60 |
| $C_5H_{10}O_3$ | Ethylene glycol monomethyl ether acetate | 143 | 43.9 | |
| $C_5H_{10}S$ | Thiacyclohexane | 141.8 | 35.96 | 42.58 |
| $C_5H_{10}S$ | Cyclopentanethiol | 132.1 | 35.32 | 41.42 |
| $C_5H_{11}Br$ | 1-Bromopentane | 129.8 | 35.01 | 41.28 |
| $C_5H_{11}Cl$ | 1-Chloropentane | 107.8 | 33.15 | 38.24 |
| $C_5H_{11}Cl$ | 2-Chloropentane | 97.0 | 31.79 | 36.03 |
| $C_5H_{11}Cl$ | 1-Chloro-3-methylbutane | 98.9 | 32.02 | 36.24 |
| $C_5H_{11}I$ | 1-Iodopentane | 155 | | 45.27 |
| $C_5H_{11}N$ | Piperidine | 106.22 | | 39.29 |
| $C_5H_{12}$ | Pentane | 36.06 | 25.79 | 26.43 |
| $C_5H_{12}$ | Isopentane | 27.88 | 24.69 | 24.85 |
| $C_5H_{12}$ | Neopentane | 9.48 | 22.74 | 21.84 |
| $C_5H_{12}O$ | 1-Pentanol | 137.98 | 44.36 | 57.02 |
| $C_5H_{12}O$ | 2-Pentanol | 119.3 | 41.40 | 54.21 |
| $C_5H_{12}O$ | 3-Pentanol | 116.25 | | 54.0 |
| $C_5H_{12}O$ | 2-Methyl-1-butanol | 128 | | 55.16 |
| $C_5H_{12}O$ | 3-Methyl-1-butanol | 131.1 | 44.07 | 55.61 |
| $C_5H_{12}O$ | 2-Methyl-2-butanol | 102.4 | 39.04 | 50.10 |
| $C_5H_{12}O$ | 3-Methyl-2-butanol | 112.9 | | 53.0 |
| $C_5H_{12}O$ | Butyl methyl ether | 70.16 | 29.55 | 32.37 |
| $C_5H_{12}O$ | *sec*-Butyl methyl ether | 59.1 | 28.09 | 30.23 |
| $C_5H_{12}O$ | Methyl *tert*-butyl ether | 55.2 | 27.94 | 29.82 |
| $C_5H_{12}O$ | Isobutyl methyl ether | 58.6 | 28.02 | 30.13 |
| $C_5H_{12}O$ | Ethyl propyl ether | 63.21 | 28.94 | 31.43 |
| $C_5H_{12}O$ | Ethyl isopropyl ether | 54.1 | 28.21 | 30.08 |
| $C_5H_{12}O_2$ | 1-Ethoxy-2-methoxyethane | 102.1 | 34.33 | 39.83 |
| $C_5H_{12}O_2$ | 1,5-Pentanediol | 239 | 60.7 | |
| $C_5H_{12}O_2$ | Ethylene glycol monopropyl ether | 149.8 | 41.40 | 52.12 |
| $C_5H_{12}O_2$ | Diethoxymethane | 88 | 31.33 | 35.65 |
| $C_5H_{12}O_3$ | Diethylene glycol monomethyl ether | 193 | 46.6 | |
| $C_5H_{12}S$ | 1-Pentanethiol | 126.6 | 34.88 | 41.24 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_5H_{12}S$ | 2-Methyl-1-butanethiol | 119.1 | 33.79 | 39.45 |
| $C_5H_{12}S$ | 2-Methyl-2-butanethiol | 99.1 | 31.37 | 35.67 |
| $C_5H_{12}S$ | Butyl methyl sulfide | 123.5 | 34.47 | 40.46 |
| $C_5H_{12}S$ | *tert*-Butyl methyl sulfide | 99 | 31.47 | 35.84 |
| $C_5H_{12}S$ | Ethyl propyl sulfide | 118.6 | 34.24 | 39.97 |
| $C_5H_{12}S$ | Ethyl isopropyl sulfide | 107.5 | 32.74 | 37.78 |
| $C_5H_{13}N$ | Pentylamine | 104.3 | 34.01 | 40.08 |
| $C_5H_{13}N$ | Ethylisopropylamine | 69.6 | 29.94 | 33.13 |
| $C_6ClF_5$ | Chloropentafluorobenzene | 117.96 | 34.76 | 41.07 |
| $C_6F_6$ | Hexafluorobenzene | 80.26 | 31.66 | 35.71 |
| $C_6HF_5$ | Pentafluorobenzene | 85.74 | 32.15 | 36.27 |
| $C_6H_4Cl_2$ | *o*-Dichlorobenzene | 180 | 39.66 | 50.21 |
| $C_6H_4Cl_2$ | *m*-Dichlorobenzene | 173 | 38.62 | 48.58 |
| $C_6H_4Cl_2$ | *p*-Dichlorobenzene | 174 | 38.79 | 49.0 |
| $C_6H_4F_2$ | *o*-Difluorobenzene | 94 | 32.21 | 36.18 |
| $C_6H_4F_2$ | *m*-Difluorobenzene | 82.6 | 31.10 | 34.59 |
| $C_6H_4F_2$ | *p*-Difluorobenzene | 89 | 31.77 | 35.54 |
| $C_6H_5Br$ | Bromobenzene | 156.06 | | 44.54 |
| $C_6H_5Cl$ | Chlorobenzene | 131.72 | 35.19 | 40.97 |
| $C_6H_5F$ | Fluorobenzene | 84.73 | 31.19 | 34.58 |
| $C_6H_5I$ | Iodobenzene | 188.4 | 39.5 | |
| $C_6H_5NO_2$ | Nitrobenzene | 210.8 | | 55.01 |
| $C_6H_6$ | Benzene | 80.09 | 30.72 | 33.83 |
| $C_6H_6ClN$ | *o*-Chloroaniline | 208.8 | 44.4 | |
| $C_6H_6O$ | Phenol | 181.87 | 45.69 | 57.82 |
| $C_6H_6S$ | Benzenethiol | 169.1 | 39.93 | 47.56 |
| $C_6H_7N$ | Aniline | 184.17 | 42.44 | 55.83 |
| $C_6H_7N$ | 2-Methylpyridine | 129.38 | 36.17 | 42.48 |
| $C_6H_7N$ | 3-Methylpyridine | 144.14 | 37.35 | 44.44 |
| $C_6H_7N$ | 4-Methylpyridine | 145.36 | 37.51 | 44.56 |
| $C_6H_7N$ | 1-Cyclopentenecarbonitrile | | | 44.98 |
| $C_6H_9N$ | Cyclopentanecarbonitrile | | | 43.43 |
| $C_6H_9NO_3$ | Triacetamide | | | 60.41 |
| $C_6H_{10}$ | Cyclohexene | 82.98 | 30.46 | 33.47 |
| $C_6H_{10}O$ | Cyclohexanone | 155.43 | | 45.06 |
| $C_6H_{10}O$ | Mesityl oxide | 130 | 36.1 | |
| $C_6H_{10}O_2$ | Methyl cyclobutanecarboxylate | 135.5 | 37.13 | 44.72 |
| $C_6H_{10}O_3$ | Propanoic anhydride | 170 | 41.7 | |
| $C_6H_{10}O_4$ | Diethyl oxalate | 185.7 | 42.0 | |
| $C_6H_{10}O_4$ | Ethylene glycol diacetate | 190 | | 61.44 |
| $C_6H_{11}N$ | Hexanenitrile | 163.65 | | 47.91 |
| $C_6H_{12}$ | 1-Hexene | 63.48 | | 30.61 |
| $C_6H_{12}$ | *cis*-2-Hexene | 68.8 | | 32.19 |
| $C_6H_{12}$ | *trans*-2-Hexene | 67.9 | | 31.60 |
| $C_6H_{12}$ | *cis*-3-Hexene | 66.4 | | 31.23 |
| $C_6H_{12}$ | *trans*-3-Hexene | 67.1 | | 31.55 |
| $C_6H_{12}$ | 2-Methyl-1-pentene | 62.1 | | 30.48 |
| $C_6H_{12}$ | 3-Methyl-1-pentene | 54.2 | | 28.62 |
| $C_6H_{12}$ | 4-Methyl-1-pentene | 53.9 | | 28.71 |
| $C_6H_{12}$ | 2-Methyl-2-pentene | 67.3 | | 31.60 |
| $C_6H_{12}$ | 3-Methyl-*cis*-2-pentene | 67.7 | | 32.09 |
| $C_6H_{12}$ | 3-Methyl-*trans*-2-pentene | 70.4 | | 31.35 |
| $C_6H_{12}$ | 4-Methyl-*cis*-2-pentene | 56.3 | | 29.48 |
| $C_6H_{12}$ | 4-Methyl-*trans*-2-pentene | 58.6 | | 29.97 |
| $C_6H_{12}$ | 2-Ethyl-1-butene | 64.7 | | 31.13 |
| $C_6H_{12}$ | 2,3-Dimethyl-1-butene | 55.6 | | 29.18 |
| $C_6H_{12}$ | 3,3-Dimethyl-1-butene | 41.2 | | 26.61 |
| $C_6H_{12}$ | 2,3-Dimethyl-2-butene | 73.3 | 29.64 | 32.51 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_6H_{12}$ | Cyclohexane | 80.73 | 29.97 | 33.01 |
| $C_6H_{12}$ | Methylcyclopentane | 71.8 | 29.08 | 31.64 |
| $C_6H_{12}$ | Ethylcyclobutane | 70.8 | 28.67 | 31.24 |
| $C_6H_{12}Cl_2$ | 1,2-Dichlorohexane | 173 | | 48.16 |
| $C_6H_{12}O$ | Butyl vinyl ether | 94 | 31.58 | 36.17 |
| $C_6H_{12}O$ | 2-Hexanone | 127.6 | 36.35 | 43.14 |
| $C_6H_{12}O$ | 3-Hexanone | 123.5 | 35.36 | 42.47 |
| $C_6H_{12}O$ | 3-Methyl-2-pentanone | 117.5 | 34.16 | 40.53 |
| $C_6H_{12}O$ | 4-Methyl-2-pentanone | 116.5 | 34.49 | 40.61 |
| $C_6H_{12}O$ | 2-Methyl-3-pentanone | 113.5 | 33.84 | 39.79 |
| $C_6H_{12}O$ | 3,3-Dimethyl-2-butanone | 106.1 | 33.39 | 37.91 |
| $C_6H_{12}O$ | Cyclohexanol | 160.84 | | 62.01 |
| $C_6H_{12}O_2$ | Butyl acetate | 126.1 | 36.28 | 43.86 |
| $C_6H_{12}O_2$ | *tert*-Butyl acetate | 95.1 | 33.07 | 38.03 |
| $C_6H_{12}O_2$ | Isobutyl acetate | 116.5 | 35.9 | |
| $C_6H_{12}O_2$ | Propyl propanoate | 122.5 | 35.54 | 43.45 |
| $C_6H_{12}O_2$ | Ethyl butanoate | 121.5 | 35.47 | 42.68 |
| $C_6H_{12}O_2$ | Ethyl 2-methylpropanoate | 110.1 | 33.67 | 39.83 |
| $C_6H_{12}O_2$ | Methyl pentanoate | 127.4 | 35.36 | 43.10 |
| $C_6H_{12}O_2$ | Methyl 2,2-dimethylpropanoate | 101.1 | 33.42 | 38.76 |
| $C_6H_{12}O_3$ | Ethylene glycol monoethyl ether acetate | 156.4 | 40.76 | 52.61 |
| $C_6H_{12}S$ | Cyclohexanethiol | 158.9 | 37.06 | 44.57 |
| $C_6H_{13}Br$ | 1-Bromohexane | 155.3 | | 45.89 |
| $C_6H_{13}Cl$ | 1-Chlorohexane | 135 | 35.67 | 42.83 |
| $C_6H_{13}I$ | 1-Iodohexane | 181 | | 49.75 |
| $C_6H_{13}N$ | Cyclohexylamine | 134 | 36.14 | 43.67 |
| $C_6H_{14}$ | Hexane | 68.73 | 28.85 | 31.56 |
| $C_6H_{14}$ | 2-Methylpentane | 60.26 | 27.79 | 29.89 |
| $C_6H_{14}$ | 3-Methylpentane | 63.27 | 28.06 | 30.28 |
| $C_6H_{14}$ | 2,2-Dimethylbutane | 49.73 | 26.31 | 27.68 |
| $C_6H_{14}$ | 2,3-Dimethylbutane | 57.93 | 27.38 | 29.12 |
| $C_6H_{14}N_2$ | Azopropane | 114 | | 39.88 |
| $C_6H_{14}O$ | 1-Hexanol | 157.6 | 44.50 | 61.61 |
| $C_6H_{14}O$ | 2-Hexanol | 140 | 41.01 | 58.46 |
| $C_6H_{14}O$ | 2-Methyl-1-pentanol | 149 | 50.2 | |
| $C_6H_{14}O$ | 4-Methyl-1-pentanol | 151.9 | 44.46 | 60.47 |
| $C_6H_{14}O$ | 2-Methyl-2-pentanol | 121.1 | 39.59 | 54.77 |
| $C_6H_{14}O$ | 4-Methyl-2-pentanol | 131.6 | 44.2 | |
| $C_6H_{14}O$ | 2-Ethyl-1-butanol | 147 | 43.2 | |
| $C_6H_{14}O$ | Dipropyl ether | 90.08 | 31.31 | 35.69 |
| $C_6H_{14}O$ | Diisopropyl ether | 68.51 | 29.10 | 32.12 |
| $C_6H_{14}O$ | Butyl ethyl ether | 92.3 | 31.63 | 36.32 |
| $C_6H_{14}O$ | Methyl pentyl ether | 99 | 32.02 | 36.85 |
| $C_6H_{14}O_2$ | 2-Methyl-2,4-pentanediol | 197.1 | 57.3 | |
| $C_6H_{14}O_2$ | Ethylene glycol monobutyl ether | 168.4 | | 56.59 |
| $C_6H_{14}O_2$ | 1,1-Diethoxyethane | 102.25 | 36.28 | 43.20 |
| $C_6H_{14}O_2$ | Ethylene glycol diethyl ether | 119.4 | 36.28 | 43.20 |
| $C_6H_{14}O_3$ | Bis(ethoxymethyl) ether | 140.6 | 36.17 | 44.69 |
| $C_6H_{14}O_3$ | Diethylene glycol monoethyl ether | 196 | 47.5 | |
| $C_6H_{14}O_3$ | Diethylene glycol dimethyl ether | 162 | 36.17 | 44.69 |
| $C_6H_{14}O_4$ | Triethylene glycol | 285 | 71.4 | |
| $C_6H_{14}S$ | Dipropyl sulfide | 142.9 | 36.60 | 44.21 |
| $C_6H_{14}S$ | Diisopropyl sulfide | 120.1 | 33.80 | 39.60 |
| $C_6H_{14}S$ | Isopropyl propyl sulfide | 132.1 | 35.11 | 41.78 |
| $C_6H_{14}S$ | Butyl ethyl sulfide | 144.3 | 37.01 | 44.51 |
| $C_6H_{14}S$ | Methyl pentyl sulfide | 145.1 | 37.41 | 45.24 |
| $C_6H_{15}N$ | Hexylamine | 132.8 | 36.54 | 45.10 |
| $C_6H_{15}N$ | Butylethylamine | 107.5 | 33.97 | 40.15 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_6H_{15}N$ | Dipropylamine | 109.3 | 33.47 | 40.04 |
| $C_6H_{15}N$ | Diisopropylamine | 83.9 | 30.40 | 34.61 |
| $C_6H_{15}N$ | Isopropylpropylamine | 96.9 | 32.14 | 37.23 |
| $C_6H_{15}N$ | Triethylamine | 89 | 31.01 | 34.84 |
| $C_6MoO_6$ | Molybdenum hexacarbonyl | 701 | 72.51 | |
| $C_7H_3F_5$ | 2,3,4,5,6-Pentafluorotoluene | 117.5 | 34.75 | 41.12 |
| $C_7H_5F_3$ | (Trifluoromethyl)benzene | 102.1 | 32.63 | 37.60 |
| $C_7H_5N$ | Benzonitrile | 191.1 | 45.9 | |
| $C_7H_6O$ | Benzaldehyde | 179.0 | 42.5 | |
| $C_7H_6O_2$ | Salicylaldehyde | 197 | 38.2 | |
| $C_7H_7Cl$ | *o*-Chlorotoluene | 159.0 | 37.5 | |
| $C_7H_7Cl$ | *p*-Chlorotoluene | 162.4 | 38.7 | |
| $C_7H_7F$ | *o*-Fluorotoluene | 115 | 35.4 | |
| $C_7H_7F$ | *p*-Fluorotoluene | 116.6 | 34.08 | 39.42 |
| $C_7H_8$ | Toluene | 110.63 | 33.18 | 38.01 |
| $C_7H_8O$ | *o*-Cresol | 191.04 | 45.19 | |
| $C_7H_8O$ | *m*-Cresol | 202.27 | 47.40 | 61.71 |
| $C_7H_8O$ | *p*-Cresol | 201.98 | 47.45 | |
| $C_7H_8O$ | Benzyl alcohol | 205.31 | 50.48 | |
| $C_7H_8O$ | Anisole | 153.7 | 38.97 | 46.90 |
| $C_7H_9N$ | Benzylamine | 185 | | 60.16 |
| $C_7H_9N$ | *o*-Methylaniline | 200.3 | 44.6 | |
| $C_7H_9N$ | *m*-Methylaniline | 203.3 | 44.9 | |
| $C_7H_9N$ | *p*-Methylaniline | 200.4 | 44.3 | |
| $C_7H_9N$ | 1-Cyclohexenecarbonitrile | | | 53.55 |
| $C_7H_9N$ | 2,3-Dimethylpyridine | 161.12 | 39.08 | 47.82 |
| $C_7H_9N$ | 2,4-Dimethylpyridine | 158.38 | 38.53 | 47.49 |
| $C_7H_9N$ | 2,5-Dimethylpyridine | 156.98 | 38.68 | 47.04 |
| $C_7H_9N$ | 2,6-Dimethylpyridine | 144.01 | 37.46 | 45.34 |
| $C_7H_9N$ | 3,4-Dimethylpyridine | 179.10 | 39.99 | 50.50 |
| $C_7H_9N$ | 3,5-Dimethylpyridine | 171.84 | 39.46 | 49.33 |
| $C_7H_{10}O$ | Dicyclopropyl ketone | 161 | | 53.70 |
| $C_7H_{11}N$ | Cyclohexanecarbonitrile | | | 51.92 |
| $C_7H_{12}$ | 1-Methylbicyclo(3,1,0)hexane | 93.1 | 31.07 | 34.77 |
| $C_7H_{12}O_4$ | Diethyl malonate | 200 | 54.8 | |
| $C_7H_{14}$ | 1-Heptene | 93.64 | | 35.49 |
| $C_7H_{14}$ | *cis*-2-Heptene | 98.4 | | 36.26 |
| $C_7H_{14}$ | *trans*-2-Heptene | 98 | | 36.27 |
| $C_7H_{14}$ | *cis*-3-Heptene | 95.8 | | 35.81 |
| $C_7H_{14}$ | *trans*-3-Heptene | 95.7 | | 35.84 |
| $C_7H_{14}$ | *cis*-3-Methyl-3-hexene | 95.4 | | 36.31 |
| $C_7H_{14}$ | *trans*-3-Methyl-3-hexene | 93.5 | | 35.70 |
| $C_7H_{14}$ | 2,4-Dimethyl-1-pentene | 81.6 | | 33.03 |
| $C_7H_{14}$ | 4,4-Dimethyl-1-pentene | 72.5 | | 31.13 |
| $C_7H_{14}$ | 2,4-Dimethyl-2-pentene | 83.4 | | 34.19 |
| $C_7H_{14}$ | *cis*-4,4-Dimethyl-2-pentene | 80.4 | | 32.56 |
| $C_7H_{14}$ | *trans*-4,4-Dimethyl-2-pentene | 76.7 | | 32.81 |
| $C_7H_{14}$ | 2-Ethyl-3-methyl-1-butene | 89 | | 34.35 |
| $C_7H_{14}$ | 2,3,3-Trimethyl-1-butene | 77.9 | | 32.09 |
| $C_7H_{14}$ | Methylcyclohexane | 100.93 | 31.27 | 35.36 |
| $C_7H_{14}$ | Ethylcyclopentane | 103.5 | 31.96 | 36.40 |
| $C_7H_{14}$ | *cis*-1,3-Dimethylcyclopentane | 90.8 | 30.40 | 34.20 |
| $C_7H_{14}O$ | 2-Heptanone | 151.05 | | 47.24 |
| $C_7H_{14}O$ | 2,2-Dimethyl-3-pentanone | 125.6 | 36.09 | 42.34 |
| $C_7H_{14}O$ | 2,4-Dimethyl-3-pentanone | 125.4 | 34.64 | 41.51 |
| $C_7H_{14}O$ | 1-Methylcyclohexanol | 155 | 79.0 | |
| $C_7H_{14}O$ | *cis*-2-Methylcyclohexanol | 165 | 48.5 | |
| $C_7H_{14}O$ | *trans*-2-Methylcyclohexanol | 167.5 | 53.0 | |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_7H_{14}O_2$ | Pentyl acetate | 149.2 | 38.42 | 48.56 |
| $C_7H_{14}O_2$ | Isopentyl acetate | 142.5 | 37.5 | |
| $C_7H_{14}O_2$ | Ethyl pentanoate | 146.1 | 36.96 | 47.01 |
| $C_7H_{14}O_2$ | Ethyl 3-methylbutanoate | 135.0 | 37.0 | |
| $C_7H_{14}O_2$ | Ethyl 2,2-dimethylpropanoate | 118.4 | 34.51 | 41.25 |
| $C_7H_{14}O_2$ | Methyl hexanoate | 149.5 | 38.55 | 48.04 |
| $C_7H_{15}Br$ | 1-Bromoheptane | 179 | | 50.60 |
| $C_7H_{15}Cl$ | 1-Chloroheptane | 159 | | 47.66 |
| $C_7H_{16}$ | Heptane | 98.5 | 31.77 | 36.57 |
| $C_7H_{16}$ | 2-Methylhexane | 90.04 | 30.62 | 34.87 |
| $C_7H_{16}$ | 3-Methylhexane | 92 | 30.9 | |
| $C_7H_{16}$ | 3-Ethylpentane | 93.5 | 31.12 | 35.22 |
| $C_7H_{16}$ | 2,2-Dimethylpentane | 79.2 | 29.23 | 32.42 |
| $C_7H_{16}$ | 2,3-Dimethylpentane | 89.78 | 30.46 | 34.26 |
| $C_7H_{16}$ | 2,4-Dimethylpentane | 80.49 | 29.55 | 32.88 |
| $C_7H_{16}$ | 3,3-Dimethylpentane | 86.06 | 29.62 | 33.03 |
| $C_7H_{16}$ | 2,2,3-Trimethylbutane | 80.86 | 28.90 | 32.05 |
| $C_7H_{16}O$ | Hexyl methyl ether | 126.1 | 34.93 | 42.07 |
| $C_7H_{16}O$ | 1-Heptanol | 176.45 | | 66.81 |
| $C_7H_{16}O$ | 3-Heptanol | 157 | 42.5 | |
| $C_7H_{16}O$ | Butyl propyl ether | 118.1 | 33.72 | 40.22 |
| $C_7H_{16}O$ | Ethyl pentyl ether | 117.6 | 34.41 | 41.01 |
| $C_7H_{17}N$ | Heptylamine | 156 | | 49.96 |
| $C_8F_{18}$ | Perfluorooctane | 105.9 | 33.38 | 41.13 |
| $C_8H_8$ | Styrene | 145 | 38.7 | |
| $C_8H_8O$ | Acetophenone | 202 | 43.98 | 55.40 |
| $C_8H_8O_2$ | Methyl benzoate | 199 | | 55.57 |
| $C_8H_8O_3$ | Methyl salicylate | 222.9 | 46.7 | |
| $C_8H_{10}$ | Ethylbenzene | 136.19 | 35.57 | 42.24 |
| $C_8H_{10}$ | *o*-Xylene | 144.5 | 36.24 | 43.43 |
| $C_8H_{10}$ | *m*-Xylene | 139.12 | 35.66 | 42.65 |
| $C_8H_{10}$ | *p*-Xylene | 138.37 | 35.67 | 42.40 |
| $C_8H_{10}O$ | 2,4-Xylenol | 210.98 | | 64.96 |
| $C_8H_{10}O$ | 2,5-Xylenol | 211.1 | 46.9 | |
| $C_8H_{10}O$ | 2,6-Xylenol | 201.07 | | 75.31 |
| $C_8H_{10}O$ | 3,4-Xylenol | 227 | | 85.03 |
| $C_8H_{10}O$ | 3,5-Xylenol | 221.74 | | 82.01 |
| $C_8H_{10}O$ | Phenetole | 169.81 | | 51.04 |
| $C_8H_{11}N$ | *N*-Ethylaniline | 203.0 | | 58.3 |
| $C_8H_{11}N$ | *N,N*-Dimethylaniline | 194.15 | | 52.83 |
| $C_8H_{11}N$ | 2,4-Dimethylaniline | 214 | | 61.3 |
| $C_8H_{11}N$ | 2,5-Dimethylaniline | 214 | | 61.7 |
| $C_8H_{11}N$ | 2,3,6-Trimethylpyridine | 171.6 | 39.95 | 50.61 |
| $C_8H_{11}N$ | 2,4,6-Trimethylpyridine | 170.6 | 39.87 | 50.33 |
| $C_8H_{14}$ | 1-Octyne | 126.3 | 35.83 | 42.30 |
| $C_8H_{14}$ | 2-Octyne | 137.6 | 37.26 | 44.49 |
| $C_8H_{14}$ | 3-Octyne | 133.1 | 36.94 | 43.92 |
| $C_8H_{14}$ | 4-Octyne | 131.6 | 36.0 | 42.73 |
| $C_8H_{14}O_3$ | Butanoic anhydride | 200 | 50.0 | |
| $C_8H_{15}N$ | Octanenitrile | 205.25 | | 56.80 |
| $C_8H_{16}$ | 1-Octene | 121.29 | 34.07 | 40.34 |
| $C_8H_{16}$ | *cis*-2,2-Dimethyl-3-hexene | 105.5 | | 36.86 |
| $C_8H_{16}$ | *trans*-2,2-Dimethyl-3-hexene | 100.8 | | 37.03 |
| $C_8H_{16}$ | 3-Ethyl-2-methyl-1-pentene | 109.5 | | 37.27 |
| $C_8H_{16}$ | 2,4,4-Trimethyl-1-pentene | 101.4 | | 35.59 |
| $C_8H_{16}$ | 2,4,4-Trimethyl-2-pentene | 104.9 | | 37.23 |
| $C_8H_{16}$ | Ethylcyclohexane | 131.9 | 34.04 | 40.56 |
| $C_8H_{16}$ | 1,1-Dimethylcyclohexane | 119.6 | 32.51 | 37.92 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_8H_{16}$ | *cis*-1,2-Dimethylcyclohexane | 129.8 | 33.47 | 39.70 |
| $C_8H_{16}$ | *trans*-1,2-Dimethylcyclohexane | 123.5 | 32.96 | 38.36 |
| $C_8H_{16}$ | *cis*-1,3-Dimethylcyclohexane | 120.1 | 32.91 | 38.26 |
| $C_8H_{16}$ | *trans*-1,3-Dimethylcyclohexane | 124.5 | 33.39 | 39.16 |
| $C_8H_{16}$ | *cis*-1,4-Dimethylcyclohexane | 124.4 | 33.28 | 39.02 |
| $C_8H_{16}$ | *trans*-1,4-Dimethylcyclohexane | 119.4 | 32.56 | 37.90 |
| $C_8H_{16}$ | Propylcyclopentane | 131 | 34.70 | 41.08 |
| $C_8H_{16}$ | Isopropylcyclopentane | 126.5 | 33.56 | 39.44 |
| $C_8H_{16}$ | 1-Ethyl-1-methylcyclopentane | 121.6 | 33.20 | 38.85 |
| $C_8H_{16}O$ | 2,2,4-Trimethyl-3-pentanone | 135.1 | 35.64 | 43.30 |
| $C_8H_{16}O_2$ | Octanoic acid | 239 | 58.5 | |
| $C_8H_{16}O_2$ | 2-Ethylhexanoic acid | 228 | | 75.60 |
| $C_8H_{16}O_2$ | Isobutyl isobutanoate | 148.6 | 38.2 | |
| $C_8H_{16}O_2$ | Ethyl hexanoate | 167 | | 51.72 |
| $C_8H_{16}O_2$ | Methyl heptanoate | 174 | | 51.62 |
| $C_8H_{17}Br$ | 1-Bromooctane | 200 | | 55.77 |
| $C_8H_{17}Cl$ | 1-Chlorooctane | 181.5 | | 52.42 |
| $C_8H_{17}F$ | 1-Fluorooctane | 142.4 | 40.43 | 49.65 |
| $C_8H_{18}$ | Octane | 125.67 | 34.41 | 41.49 |
| $C_8H_{18}$ | 2-Methylheptane | 117.66 | 33.26 | 39.67 |
| $C_8H_{18}$ | 3-Methylheptane | 118.9 | 33.66 | 39.83 |
| $C_8H_{18}$ | 4-Methylheptane | 117.72 | 33.35 | 39.69 |
| $C_8H_{18}$ | 3-Ethylhexane | 118.6 | 33.59 | 39.64 |
| $C_8H_{18}$ | 2,2-Dimethylhexane | 106.86 | 32.07 | 37.28 |
| $C_8H_{18}$ | 2,3-Dimethylhexane | 115.62 | 33.17 | 38.78 |
| $C_8H_{18}$ | 2,4-Dimethylhexane | 109.5 | 32.51 | 37.76 |
| $C_8H_{18}$ | 2,5-Dimethylhexane | 109.12 | 32.54 | 37.85 |
| $C_8H_{18}$ | 3,3-Dimethylhexane | 111.97 | 32.31 | 37.53 |
| $C_8H_{18}$ | 3,4-Dimethylhexane | 117.73 | 33.24 | 38.97 |
| $C_8H_{18}$ | 3-Ethyl-2-methylpentane | 115.66 | 32.93 | 38.52 |
| $C_8H_{18}$ | 3-Ethyl-3-methylpentane | 118.27 | 32.78 | 37.99 |
| $C_8H_{18}$ | 2,2,3-Trimethylpentane | 110 | 31.94 | 36.91 |
| $C_8H_{18}$ | 2,2,4-Trimethylpentane | 99.22 | 30.79 | 35.14 |
| $C_8H_{18}$ | 2,3,3-Trimethylpentane | 114.8 | 32.12 | 37.27 |
| $C_8H_{18}$ | 2,3,4-Trimethylpentane | 113.5 | 32.36 | 37.75 |
| $C_8H_{18}$ | 2,2,3,3-Tetramethylbutane | 106.45 | | 42.90 |
| $C_8H_{18}N_2$ | Azobutane | | | 49.31 |
| $C_8H_{18}O$ | 1-Octanol | 195.16 | | 70.98 |
| $C_8H_{18}O$ | 2-Octanol | 180 | 44.4 | |
| $C_8H_{18}O$ | 2-Ethyl-1-hexanol | 184.6 | 54.2 | |
| $C_8H_{18}O$ | Dibutyl ether | 140.28 | 36.49 | 44.97 |
| $C_8H_{18}O$ | Di-*sec*-butyl ether | 121.1 | 34.06 | 40.84 |
| $C_8H_{18}O$ | Di-*tert*-butyl ether | 107.23 | 32.15 | 37.61 |
| $C_8H_{18}O_2$ | 1,2-Dipropoxyethane | | | 50.62 |
| $C_8H_{18}O_3$ | Diethylene glycol diethyl ether | 188 | | 58.40 |
| $C_8H_{18}S$ | Dibutyl sulfide | 185 | | 52.96 |
| $C_8H_{18}S$ | Di-*tert*-butyl sulfide | 149.1 | 33.26 | 43.76 |
| $C_8H_{18}S$ | Diisobutyl sulfide | 171 | | 48.71 |
| $C_8H_{19}N$ | Dibutylamine | 159.6 | 38.44 | 49.45 |
| $C_8H_{19}N$ | 2-Ethylhexylamine | 169.2 | 40.0 | |
| $C_9H_7N$ | Quinoline | 237.16 | 49.7 | 59.30 |
| $C_9H_7N$ | Isoquinoline | 243.22 | 49.0 | 60.26 |
| $C_9H_{10}$ | Cyclopropylbenzene | 173.6 | | 50.22 |
| $C_9H_{10}$ | Indan | 177.97 | 39.63 | 48.79 |
| $C_9H_{10}O_2$ | Benzyl acetate | 213 | 49.4 | |
| $C_9H_{12}$ | Propylbenzene | 159.24 | | 46.22 |
| $C_9H_{12}$ | Isopropylbenzene | 152.41 | | 45.13 |
| $C_9H_{12}$ | 1,2,3-Trimethylbenzene | 176.12 | | 49.05 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_9H_{12}$ | 1,2,4-Trimethylbenzene | 169.38 | | 47.93 |
| $C_9H_{12}$ | 1,3,5-Trimethylbenzene | 164.74 | | 47.50 |
| $C_9H_{14}O_6$ | Triacetin | 259 | | 85.74 |
| $C_9H_{18}$ | Butylcyclopentane | 156.6 | 36.16 | 45.89 |
| $C_9H_{18}$ | Propylcyclohexane | 156.7 | | 45.08 |
| $C_9H_{18}$ | Isopropylcyclohexane | 154.8 | | 44.02 |
| $C_9H_{18}O$ | 2-Nonanone | 195.3 | | 56.44 |
| $C_9H_{18}O$ | 5-Nonanone | 188.45 | | 53.30 |
| $C_9H_{18}O$ | 2,6-Dimethyl-4-heptanone | 169.4 | | 50.92 |
| $C_9H_{18}O_2$ | Methyl octanoate | 192.9 | | 56.41 |
| $C_9H_{20}$ | Nonane | 150.82 | 37.18 | 46.55 |
| $C_9H_{20}$ | 2,2,5-Trimethylhexane | 124.09 | 33.65 | 40.16 |
| $C_9H_{20}$ | 2,3,5-Trimethylhexane | 131.4 | 34.43 | 41.41 |
| $C_9H_{20}$ | 3,3-Diethylpentane | 146.3 | 34.61 | 42.0 |
| $C_9H_{20}$ | 2,2,4,4-Tetramethylpentane | 122.29 | 32.51 | 38.49 |
| $C_9H_{20}O$ | 1-Nonanol | 213.37 | | 76.86 |
| $C_{10}H_7Br$ | 1-Bromonaphthalene | 281 | 39.3 | |
| $C_{10}H_7Cl$ | 1-Chloronaphthalene | 259 | 52.1 | |
| $C_{10}H_8$ | Naphthalene | 217.9 | 43.2 | |
| $C_{10}H_9N$ | 2-Methylquinoline | 246.5 | | 66.1 |
| $C_{10}H_9N$ | 4-Methylquinoline | 262 | | 67.6 |
| $C_{10}H_9N$ | 6-Methylquinoline | 258.6 | | 67.7 |
| $C_{10}H_9N$ | 8-Methylquinoline | 247.5 | | 65.7 |
| $C_{10}H_{12}$ | 1,2,3,4-Tetrahydronaphthalene | 207.6 | 43.9 | |
| $C_{10}H_{14}$ | Butylbenzene | 183.31 | 38.87 | 51.36 |
| $C_{10}H_{14}$ | *sec*-Butylbenzene | 173.3 | | 47.98 |
| $C_{10}H_{14}$ | *tert*-Butylbenzene | 169.1 | | 47.71 |
| $C_{10}H_{14}$ | Isobutylbenzene | 172.79 | | 47.86 |
| $C_{10}H_{14}$ | 1-Isopropyl-4-methylbenzene | 177.1 | 38.2 | |
| $C_{10}H_{16}O$ | (+)-Camphor | 207.4 | 59.5 | |
| $C_{10}H_{18}$ | *cis*-Decahydronaphthalene | 195.8 | 41.0 | |
| $C_{10}H_{18}$ | *trans*-Decahydronaphthalene | 187.3 | 40.2 | |
| $C_{10}H_{19}N$ | Decanenitrile | 243 | | 66.84 |
| $C_{10}H_{20}$ | 1-Decene | 170.5 | | 50.43 |
| $C_{10}H_{20}$ | Butylcyclohexane | 180.9 | | 49.36 |
| $C_{10}H_{20}O_2$ | 2-Ethylhexyl acetate | 199 | 43.5 | |
| $C_{10}H_{20}O_2$ | Isopentyl isopentanoate | 190.4 | 45.9 | |
| $C_{10}H_{22}$ | Decane | 174.15 | 39.58 | 51.42 |
| $C_{10}H_{22}$ | 2-Methylnonane | 167.1 | 38.23 | 49.63 |
| $C_{10}H_{22}$ | 3-Methylnonane | 167.9 | 38.26 | 49.71 |
| $C_{10}H_{22}$ | 5-Methylnonane | 165.1 | 38.14 | 49.34 |
| $C_{10}H_{22}$ | 2,4-Dimethyloctane | 156 | 36.47 | 47.13 |
| $C_{10}H_{22}O$ | 1-Decanol | 231.1 | | 81.50 |
| $C_{10}H_{22}O$ | Diisopentyl ether | 172.5 | 35.1 | |
| $C_{10}H_{22}S$ | 1-Decanethiol | 240.6 | | 65.48 |
| $C_{11}H_{10}$ | 1-Methylnaphthalene | 244.7 | 45.5 | |
| $C_{11}H_{21}N$ | Undecanenitrile | 253 | | 71.14 |
| $C_{11}H_{22}$ | Pentylcyclohexane | 203.7 | | 53.88 |
| $C_{11}H_{24}$ | Undecane | 195.9 | 41.91 | 56.58 |
| $C_{11}H_{24}$ | 2-Methyldecane | 189.3 | 40.25 | 54.28 |
| $C_{11}H_{24}$ | 4-Methyldecane | 187 | 40.70 | 53.76 |
| $C_{11}H_{24}$ | 2,4,7-Trimethyloctane | 168.1 | 38.22 | 49.91 |
| $C_{12}F_{27}N$ | Tris(perfluorobutyl)amine | 178 | 46.4 | |
| $C_{12}H_{10}O$ | Diphenyl ether | 258.0 | 48.2 | |
| $C_{12}H_{16}$ | Cyclohexylbenzene | 240.1 | | 59.94 |
| $C_{12}H_{22}$ | Cyclohexylcyclohexane | 238 | | 57.98 |
| $C_{12}H_{23}N$ | Dodecanenitrile | 277 | | 76.12 |
| $C_{12}H_{24}$ | 1-Dodecene | 213.8 | | 60.78 |

## ENTHALPY OF VAPORIZATION (continued)

| Mol. Form. | Name | $t_b$/°C | $\Delta_{vap}H(t_b)$ kJ/mol | $\Delta_{vap}H(25°C)$ kJ/mol |
|---|---|---|---|---|
| $C_{12}H_{26}$ | 2,2,4,6,6-Pentamethylheptane | 177.8 | | 48.97 |
| $C_{12}H_{26}$ | Dodecane | 216.32 | 44.09 | 61.52 |
| $C_{12}H_{26}O$ | 1-Dodecanol | 259 | | 91.96 |
| $C_{12}H_{27}BO_3$ | Tributyl borate | 234 | 56.1 | |
| $C_{12}H_{27}N$ | Tributylamine | 216.5 | 46.9 | |
| $C_{13}H_{13}N$ | *N*-Benzylaniline | 306.5 | | 79.6 |
| $C_{13}H_{26}O_2$ | Methyl dodecanoate | 267 | | 77.17 |
| $C_{13}H_{28}$ | Tridecane | 235.47 | 46.20 | 66.68 |
| $C_{14}H_{10}$ | Phenanthrene | 340 | | 75.50 |
| $C_{14}H_{12}O_2$ | Benzyl benzoate | 323.5 | 53.6 | |
| $C_{14}H_{27}N$ | Tetradecanenitrile | | | 85.29 |
| $C_{14}H_{30}$ | Tetradecane | 253.58 | 48.16 | 71.73 |
| $C_{14}H_{30}O$ | 1-Tetradecanol | 289 | | 102.20 |
| $C_{15}H_{32}$ | Pentadecane | 270.6 | 50.08 | 76.77 |
| $C_{16}H_{22}O_4$ | Dibutyl phthalate | 340 | 79.2 | |
| $C_{16}H_{32}$ | 1-Hexadecene | 284.9 | | 80.25 |
| $C_{16}H_{34}$ | Hexadecane | 286.86 | 51.84 | 81.35 |
| $C_{17}H_{36}$ | Heptadecane | 302.0 | 53.58 | 86.47 |
| $C_{18}H_{34}O_2$ | Oleic acid | 360 | 67.4 | |
| $C_{18}H_{38}$ | Octadecane | 316.3 | 55.23 | 91.44 |
| $C_{19}H_{40}$ | Nonadecane | 329.9 | 56.93 | 96.4 |
| $C_{20}H_{42}$ | Eicosane | 343 | 58.49 | 101.81 |

## ENTHALPY OF FUSION

This table lists the molar enthalpy (heat) of fusion, $\Delta_{fus}H$, of over 800 inorganic and organic compounds. All values refer to the enthalpy change at equilibrium between the liquid phase and the most stable solid phase at the transition temperature. Most values of $\Delta_{fus}H$ are given at the normal melting point $t_m$. However, a "t" following the entry in the melting point column indicate a triple-point temperature, where the solid, liquid, and gas phases are in equilibrium. Substances are listed by molecular formula in the Hill order, with substances containing carbon (except graphite) following those that do not contain carbon.

All temperatures are given on the ITS-90 scale.

A * following an entry indicates that the value includes the enthalpy of transition between crystalline phases whose transformation occurs within 1˚C of the melting point.

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| Molecular formula | Name | $t_m$/˚C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| Ag | Silver | 961.78 | 11.28 |
| AgBr | Silver(I) bromide | 432 | 9.12 |
| AgCl | Silver(I) chloride | 455 | 13.2 |
| AgI | Silver(I) iodide | 558 | 9.41 |
| $AgNO_3$ | Silver(I) nitrate | 212 | 11.5 |
| $Ag_2S$ | Silver(I) sulfide | 825 | 14.1 |
| Al | Aluminum | 660.32 | 10.789 |
| $AlBr_3$ | Aluminum bromide | 97.5 | 11.25 |
| $AlCl_3$ | Aluminum chloride | 192.6 | 35.4 |
| $AlF_3$ | Aluminum fluoride | 2250 t | 98 |
| $AlI_3$ | Aluminum iodide | 188.28 | 15.9 |
| $Al_2O_3$ | Aluminum oxide | 2053 | 111.4 |
| $Al_2S_3$ | Aluminum sulfide | 1100 | 55 |
| Am | Americium | 1176 | 14.39 |
| Ar | Argon | -189.36 t | 1.18 |
| As | Arsenic (gray) | 817 t | 24.44 |
| $AsBr_3$ | Arsenic(III) bromide | 31.1 | 11.7 |
| $AsCl_3$ | Arsenic(III) chloride | -16 | 10.1 |
| $AsF_3$ | Arsenic(III) fluoride | -5.9 | 10.4 |
| Au | Gold | 1064.18 | 12.72 |
| B | Boron | 2075 | 50.2 |
| $BCl_3$ | Boron trichloride | -107 | 2.10 |
| $BF_3$ | Boron trifluoride | -126.8 | 4.20 |
| $BHO_2$ | Metaboric acid (γ form) | 236 | 14.3 |
| $BH_3O_3$ | Boric acid (orthoboric acid) | 170.9 | 22.3 |
| BN | Boron nitride | 2966 | 81 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $BNaO_2$ | Sodium metaborate | 966 | 36.2 |
| $B_2O_3$ | Boron oxide | 450 | 24.56 |
| Ba | Barium | 727 | 7.12 |
| $BaBr_2$ | Barium bromide | 857 | 32.2 |
| $BaCl_2$ | Barium chloride | 962 | 15.85 |
| $BaF_2$ | Barium fluoride | 1368 | 17.8 |
| $BaH_2$ | Barium hydride | 1200 | 25 |
| $BaH_2O_2$ | Barium hydroxide | 408 | 16 |
| $BaI_2$ | Barium iodide | 711 | 26.5 |
| BaO | Barium oxide | 1972 | 46 |
| $BaO_4S$ | Barium sulfate | 1580 | 40 |
| BaS | Barium sulfide | 2229 | 63 |
| Be | Beryllium | 1287 | 7.895 |
| $BeBr_2$ | Beryllium bromide | 508 | 18 |
| $BeCl_2$ | Beryllium chloride | 415 | 8.66 |
| $BeF_2$ | Beryllium fluoride | 552 | 4.77 |
| $BeI_2$ | Beryllium iodide | 470 | 18 |
| BeO | Beryllium oxide | 2577 | 86 |
| $BeO_4S$ | Beryllium sulfate | 1127 | 6 |
| Bi | Bismuth | 271.40 | 11.145 |
| $BiCl_3$ | Bismuth trichloride | 230 | 10.9 |
| $BrF_5$ | Bromine pentafluoride | -60.5 | 5.67 |
| BrH | Hydrogen bromide | -86.80 | 2.41 |
| BrIn | Indium(I) bromide | 290 | 15 |
| BrK | Potassium bromide | 734 | 25.5 |
| BrLi | Lithium bromide | 552 | 17.6 |
| BrNa | Sodium bromide | 747 | 26.11 |
| $BrNaO_3$ | Sodium bromate | 381 | 28.11 |
| BrRb | Rubidium bromide | 682 | 15.5 |
| BrTl | Thallium(I) bromide | 460 | 16.4 |
| $Br_2$ | Bromine | -7.2 | 10.57 |
| $Br_2Ca$ | Calcium bromide | 742 | 29.1 |
| $Br_2Cd$ | Cadmium bromide | 568 | 20.9 |
| $Br_2Fe$ | Iron(II) bromide | 691 | 50.2 |
| $Br_2Hg$ | Mercury(II) bromide | 236 | 17.9 |
| $Br_2Mg$ | Magnesium bromide | 711 | 39.3 |
| $Br_2Pb$ | Lead(II) bromide | 371 | 16.44 |
| $Br_2Sr$ | Strontium bromide | 657 | 10.1 |
| $Br_2Zn$ | Zinc bromide | 394 | 16.7 |
| $Br_3Ga$ | Gallium(III) bromide | 121.5 | 12.1 |
| $Br_3In$ | Indium(III) bromide | 420 | 26 |
| $Br_3Pu$ | Plutonium(III) bromide | 681 | 55.2 |
| $Br_3U$ | Uranium(III) bromide | 727 | 43.9 |
| $Br_4Sn$ | Tin(IV) bromide | 29.1 | 12.2 |
| $Br_4Th$ | Thorium(IV) bromide | 679 | 66.9 |
| $Br_4Ti$ | Titanium(IV) bromide | 39 | 12.9 |
| $Br_4U$ | Uranium(IV) bromide | 519 | 55.2 |
| $Br_5Ta$ | Tantalum(V) bromide | 265 | 45.6 |
| C | Carbon (graphite) | 4489 t | 117 |
| Ca | Calcium | 842 | 8.54 |
| $CaCl_2$ | Calcium chloride | 775 | 28.05 |
| $CaF_2$ | Calcium fluoride | 1418 | 30 |
| $CaH_2$ | Calcium hydride | 1000 | 6.7 |
| $CaI_2$ | Calcium iodide | 783 | 41.8 |
| CaO | Calcium oxide | 2898 | 80 |
| $CaO_4S$ | Calcium sulfate | 1460 | 28 |
| CaS | Calcium sulfide | 2524 | 70 |
| Cd | Cadmium | 321.07 | 6.21 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $CdCl_2$ | Cadmium chloride | 564 | 48.58 |
| $CdF_2$ | Cadmium fluoride | 1110 | 22.6 |
| $CdI_2$ | Cadmium iodide | 387 | 15.3 |
| Ce | Cerium | 798 | 5.46 |
| $CeCl_3$ | Cerium(III) chloride | 817 | 54.4 |
| ClCs | Cesium chloride | 645 | 15.9 |
| ClCu | Copper(I) chloride | 430 | 10.2 |
| ClH | Hydrogen chloride | -114.17 | 2.00 |
| ClI | Iodine chloride | 27.39 | 11.6 |
| ClIn | Indium(I) chloride | 211 | 21.3 |
| ClK | Potassium chloride | 771 | 26.53 |
| ClLi | Lithium chloride | 610 | 19.9 |
| $ClLiO_4$ | Lithium perchlorate | 236 | 29 |
| ClNa | Sodium chloride | 800.7 | 28.16 |
| $ClNaO_3$ | Sodium chlorate | 248 | 22.1 |
| ClRb | Rubidium chloride | 715 | 18.4 |
| ClTl | Thallium(I) chloride | 430 | 15.56 |
| $Cl_2$ | Chlorine | -101.5 | 6.40 |
| $Cl_2Co$ | Cobalt(II) chloride | 740 | 45 |
| $Cl_2Cr$ | Chromium(II) chloride | 814 | 32.2 |
| $Cl_2Cu$ | Copper(II) chloride | 630 | 20.4 |
| $Cl_2Fe$ | Iron(II) chloride | 677 | 43.01 |
| $Cl_2Hg$ | Mercury(II) chloride | 276 | 19.41 |
| $Cl_2Mg$ | Magnesium chloride | 714 | 43.1 |
| $Cl_2Mn$ | Manganese(II) chloride | 650 | 30.7 |
| $Cl_2Ni$ | Nickel(II) chloride | 1009 | 71.2 |
| $Cl_2Pb$ | Lead(II) chloride | 501 | 21.75 |
| $Cl_2Sn$ | Tin(II) chloride | 247.1 | 14.52 |
| $Cl_2Sr$ | Strontium chloride | 874 | 17.5 |
| $Cl_3Fe$ | Iron(III) chloride | 304 | 43.1 |
| $Cl_3Ga$ | Gallium(III) chloride | 77.9 | 11.13 |
| $Cl_3In$ | Indium(III) chloride | 583 | 27 |
| $Cl_3La$ | Lanthanum chloride | 859 | 43.1 |
| $Cl_3OP$ | Phosphorus(V) oxychloride | 1.18 | 13.1 |
| $Cl_3P$ | Phosphorus(III) chloride | -112 | 7.10 |
| $Cl_3Sb$ | Antimony(III) chloride | 73.4 | 12.7 |
| $Cl_4OW$ | Tungsten(VI) oxytetrachloride | 211 | 45 |
| $Cl_4Si$ | Tetrachlorosilane | -68.74 | 7.60 |
| $Cl_4Sn$ | Tin(IV) chloride | -34.07 | 9.20 |
| $Cl_4Th$ | Thorium(IV) chloride | 770 | 40.2 |
| $Cl_4Ti$ | Titanium(IV) chloride | -24.12 | 9.97 |
| $Cl_4U$ | Uranium(IV) chloride | 590 | 45 |
| $Cl_4V$ | Vanadium(IV) chloride | -25.7 | 2.30 |
| $Cl_4Zr$ | Zirconium(IV) chloride | 437 t | 50 |
| $Cl_5Mo$ | Molybdenum(V) chloride | 194 | 19 |
| $Cl_5Nb$ | Niobium(V) chloride | 204.7 | 38.3 |
| $Cl_5Ta$ | Tantalum(V) chloride | 216 | 41.6 |
| $Cl_6W$ | Tungsten(VI) chloride | 275 | 6.60 |
| Co | Cobalt | 1495 | 16.06 |
| $CoF_2$ | Cobalt(II) fluoride | 1127 | 59 |
| Cr | Chromium | 1907 | 21.0 |
| $Cr_2O_3$ | Chromium(III) oxide | 2329 | 130 |
| Cs | Cesium | 28.5 | 2.09 |
| CsF | Cesium fluoride | 703 | 21.7 |
| CsHO | Cesium hydroxide | 342.3 | 7.78 |
| $Cs_2O_4S$ | Cesium sulfate | 1005 | 35.7 |
| Cu | Copper | 1084.62 | 12.93 |
| $CuF_2$ | Copper(II) fluoride | 836 | 55 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| CuO | Copper(II) oxide | 1446 | 11.8 |
| Dy | Dysprosium | 1412 | 11.06 |
| Er | Erbium | 1529 | 19.9 |
| Eu | Europium | 822 | 9.21 |
| FH | Hydrogen fluoride | -83.35 | 4.58 |
| FK | Potassium fluoride | 858 | 27.2 |
| FLi | Lithium fluoride | 848.2 | 27.09 |
| FNa | Sodium fluoride | 996 | 33.35 |
| FRb | Rubidium fluoride | 833 | 17.3 |
| FTl | Thallium(I) fluoride | 326 | 13.87 |
| $F_2$ | Fluorine | -219.66 | 0.51 |
| $F_2Fe$ | Iron(II) fluoride | 1100 | 52 |
| $F_2HK$ | Potassium hydrogen fluoride | 238.9 | 6.62 |
| $F_2Mg$ | Magnesium fluoride | 1263 | 58.5 |
| $F_2Pb$ | Lead(II) fluoride | 830 | 14.7 |
| $F_2Sr$ | Strontium fluoride | 1477 | 28.5 |
| $F_3In$ | Indium(III) fluoride | 1170 | 64 |
| $F_3Pu$ | Plutonium(III) fluoride | 1396 | 59.8 |
| $F_4Pu$ | Plutonium(IV) fluoride | 1027 | 65.3 |
| $F_4Th$ | Thorium(IV) fluoride | 1110 | 44.0 |
| $F_4U$ | Uranium(IV) fluoride | 1036 | 42.7 |
| $F_4Zr$ | Zirconium(IV) fluoride | 932 t | 64.2 |
| $F_5Nb$ | Niobium(V) fluoride | 80 | 12.2 |
| $F_5V$ | Vanadium(V) fluoride | 19.5 | 49.96 |
| $F_6Ir$ | Iridium(VI) fluoride | 44 | 8.40 |
| $F_6Mo$ | Molybdenum(VI) fluoride | 17.5 | 4.33 |
| $F_6Pu$ | Plutonium(VI) fluoride | 52 | 17.6 |
| $F_6S$ | Sulfur hexafluoride | -50.7 t | 5.02 |
| $F_6U$ | Uranium(VI) fluoride | 64.0 t | 19.1 |
| $F_6W$ | Tungsten(VI) fluoride | 2.3 | 4.10 |
| Fe | Iron | 1538 | 13.81 |
| $FeI_2$ | Iron(II) iodide | 587 | 45 |
| FeO | Iron(II) oxide | 1377 | 24 |
| FeS | Iron(II) sulfide | 1188 | 31.5 |
| $Fe_3O_4$ | Iron(II,III) oxide | 1597 | 138 |
| Ga | Gallium | 29.76 | 5.576 |
| $GaI_3$ | Gallium(III) iodide | 212 | 12.9 |
| GaSb | Gallium antimonide | 712 | 25.1 |
| $Ga_2O_3$ | Gallium(III) oxide | 1806 | 100 |
| Gd | Gadolinium | 1313 | 10.0 |
| Ge | Germanium | 938.25 | 36.94 |
| HI | Hydrogen iodide | -50.76 | 2.87 |
| HKO | Potassium hydroxide | 406 | 7.9 |
| HLi | Lithium hydride | 688.7 | 22.59 |
| HLiO | Lithium hydroxide | 471.1 | 20.88 |
| $HNO_3$ | Nitric acid | -41.6 | 10.5 |
| HNaO | Sodium hydroxide | 323 | 6.60 |
| HORb | Rubidium hydroxide | 382 | 8.0 |
| $H_2$ | Hydrogen | -259.34 | 0.12 |
| $H_2Mg$ | Magnesium hydride | 327 | 14 |
| $H_2O$ | Water | 0.00 | 6.01 |
| $H_2O_2$ | Hydrogen peroxide | -0.43 | 12.50 |
| $H_2O_2Sr$ | Strontium hydroxide | 535 | 23 |
| $H_2O_4S$ | Sulfuric acid | 10.31 | 10.71 |
| $H_2S$ | Hydrogen sulfide | -85.5 | 2.38 |
| $H_2Sr$ | Strontium hydride | 1050 | 23 |
| $H_3N$ | Ammonia | -77.73 | 5.66 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $H_3O_2P$ | Hypophosphorous acid | 26.5 | 9.7 |
| $H_3O_3P$ | Phosphorous acid | 74.4 | 12.8 |
| $H_3O_4P$ | Phosphoric acid | 42.4 | 13.4 |
| $H_4IN$ | Ammonium iodide | 551 | 21 |
| $H_4N_2$ | Hydrazine | 1.4 | 12.6 |
| $H_4N_2O_3$ | Ammonium nitrate | 169.7 | 6.40 |
| Hf | Hafnium | 2233 | 27.2 |
| Hg | Mercury | -38.83 | 2.29 |
| $HgI_2$ | Mercury(II) iodide | 259 | 18.9 |
| $Hg_2I_2$ | Mercury(I) iodide | 290 | 27 |
| Ho | Holmium | 1474 | 17.0 |
| IIn | Indium(I) iodide | 364.4 | 17.26 |
| IK | Potassium iodide | 681 | 24 |
| ILi | Lithium iodide | 469 | 14.6 |
| INa | Sodium iodide | 660 | 23.6 |
| IRb | Rubidium iodide | 642 | 12.5 |
| ITl | Thallium(I) iodide | 441.7 | 14.73 |
| $I_2$ | Iodine | 113.7 | 15.52 |
| $I_2Mg$ | Magnesium iodide | 634 | 26 |
| $I_2Pb$ | Lead(II) iodide | 410 | 23.4 |
| $I_2Sr$ | Strontium iodide | 538 | 19.7 |
| $I_3In$ | Indium(III) iodide | 207 | 18.48 |
| $I_4Si$ | Tetraiodosilane | 120.5 | 19.7 |
| $I_4Th$ | Thorium(IV) iodide | 570 | 61.4 |
| $I_4Ti$ | Titanium(IV) iodide | 150 | 19.8 |
| $I_4U$ | Uranium(IV) iodide | 506 | 70.7 |
| In | Indium | 156.60 | 3.281 |
| InSb | Indium antimonide | 525 | 25.5 |
| $In_2O_3$ | Indium(III) oxide | 1912 | 105 |
| Ir | Iridium | 2446 | 41.12 |
| K | Potassium | 63.5 | 2.33 |
| $KNO_3$ | Potassium nitrate | 337 | 10.1 |
| $K_2O_4S$ | Potassium sulfate | 1069 | 36.4 |
| $K_2S$ | Potassium sulfide | 948 | 16.15 |
| Kr | Krypton | -157.38 t | 1.64 |
| La | Lanthanum | 918 | 6.20 |
| Li | Lithium | 180.50 | 3.00 |
| $LiNO_3$ | Lithium nitrate | 253 | 24.9 |
| $Li_2O_3Si$ | Lithium metasilicate | 1201 | 28 |
| $Li_2O_4S$ | Lithium sulfate | 859 | 7.50 |
| Lu | Lutetium | 1663 | 22 |
| Mg | Magnesium | 650 | 8.48 |
| MgO | Magnesium oxide | 2825 | 77 |
| $MgO_4S$ | Magnesium sulfate | 1127 | 14.6 |
| MgS | Magnesium sulfide | 2226 | 63 |
| $Mg_2O_4Si$ | Magnesium orthosilicate | 1897 | 71 |
| Mn | Manganese | 1246 | 12.91 |
| MnO | Manganese(II) oxide | 1839 | 54.4 |
| Mo | Molybdenum | 2623 | 37.48 |
| $MoO_3$ | Molybdenum(VI) oxide | 801 | 48 |
| $NNaO_3$ | Sodium nitrate | 307 | 15 |
| NO | Nitric oxide | -163.6 | 2.30 |
| $NO_3Rb$ | Rubidium nitrate | 305 | 5.60 |
| $NO_3Tl$ | Thallium(I) nitrate | 206 | 9.6 |
| $N_2$ | Nitrogen | -210.0 | 0.71 |
| $N_2O$ | Nitrous oxide | -90.8 | 6.54 |
| $N_2O_4$ | Nitrogen tetroxide | -9.3 | 14.65 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| Na | Sodium | 97.80 | 2.60 |
| $Na_2O$ | Sodium oxide | 1132 | 48 |
| $Na_2O_3Si$ | Sodium metasilicate | 1089 | 52 |
| $Na_2O_4S$ | Sodium sulfate | 884 | 23.6 |
| $Na_2S$ | Sodium sulfide | 1172 | 19 |
| Nb | Niobium | 2477 | 30 |
| NbO | Niobium(II) oxide | 1936 | 85 |
| $NbO_2$ | Niobium(IV) oxide | 1901 | 92 |
| $Nb_2O_5$ | Niobium(V) oxide | 1512 | 104.3 |
| Nd | Neodymium | 1021 | 7.14 |
| Ne | Neon | -248.61 t | 0.328 |
| Ni | Nickel | 1455 | 17.04 |
| NiS | Nickel(II) sulfide | 976 | 30.1 |
| Np | Neptunium | 644 | 3.20 |
| OSr | Strontium oxide | 2531 | 81 |
| $OTl_2$ | Thallium(I) oxide | 579 | 30.3 |
| OV | Vanadium(II) oxide | 1789 | 63 |
| OZn | Zinc oxide | 1974 | 52.3 |
| $O_2$ | Oxygen | -218.79 | 0.44 |
| $O_2Si$ | Silicon dioxide (cristobalite) | 1722 | 9.6 |
| $O_2Zr$ | Zirconium(IV) oxide | 2709 | 87 |
| $O_3S$ | Sulfur trioxide | 16.8 | 8.60 |
| $O_3Tl_2$ | Thallium(III) oxide | 834 | 53 |
| $O_3W$ | Tungsten(VI) oxide | 1472 | 73 |
| $O_3Y_2$ | Yttrium oxide | 2438 | 105 |
| $O_4Os$ | Osmium(VIII) oxide | 41 | 9.8 |
| $O_4SSr$ | Strontium sulfate | 1606 | 36 |
| $O_4STl_2$ | Thallium(I) sulfate | 632 | 23 |
| $O_5P_2$ | Phosphorus(V) oxide | 562 | 27.2 |
| $O_5Ta_2$ | Tantalum(V) oxide | 1784 | 120 |
| $O_5V_2$ | Vanadium(V) oxide | 670 | 64.5 |
| $O_7Re_2$ | Rhenium(VII) oxide | 297 | 64.2 |
| Os | Osmium | 3033 | 57.85 |
| P | Phosphorus (white) | 44.15 | 0.66 |
| Pa | Protactinium | 1572 | 12.34 |
| Pb | Lead | 327.46 | 4.782 |
| PbS | Lead(II) sulfide | 1113 | 49.4 |
| Pd | Palladium | 1554.9 | 16.74 |
| Pr | Praseodymium | 931 | 6.89 |
| Pt | Platinum | 1768.4 | 22.17 |
| Pu | Plutonium | 640 | 2.82 |
| Rb | Rubidium | 39.3 | 2.19 |
| Re | Rhenium | 3186 | 60.43 |
| Rh | Rhodium | 1964 | 26.59 |
| Ru | Ruthenium | 2334 | 38.59 |
| S | Sulfur (monoclinic) | 115.21 | 1.72 |
| SSr | Strontium sulfide | 2226 | 63 |
| $STl_2$ | Thallium(I) sulfide | 448 | 12 |
| Sb | Antimony | 630.63 | 19.79 |
| Sc | Scandium | 1541 | 14.1 |
| Se | Selenium (gray) | 220.5 | 6.69 |
| Si | Silicon | 1414 | 50.21 |
| Sm | Samarium | 1074 | 8.62 |
| Sn | Tin (white) | 231.93 | 7.173 |
| Sr | Strontium | 777 | 7.43 |
| Ta | Tantalum | 3017 | 36.57 |
| Tb | Terbium | 1356 | 10.15 |
| Tc | Technetium | 2157 | 33.29 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| Te | Tellurium | 449.51 | 17.49 |
| Th | Thorium | 1750 | 13.81 |
| Ti | Titanium | 1668 | 14.15 |
| Tl | Thallium | 304 | 4.14 |
| Tm | Thulium | 1545 | 16.84 |
| U | Uranium | 1135 | 9.14 |
| V | Vanadium | 1910 | 21.5 |
| W | Tungsten | 3422 | 52.31 |
| Xe | Xenon | -111.79 t | 2.27 |
| Y | Yttrium | 1522 | 11.4 |
| Yb | Ytterbium | 819 | 7.66 |
| Zn | Zinc | 419.53 | 7.068 |
| Zr | Zirconium | 1855 | 21.00 |
| $CBaO_3$ | Barium carbonate | 1555 | 40 |
| $CBrCl_3$ | Bromotrichloromethane | -5.65 | 2.53 |
| $CBr_4$ | Tetrabromomethane | 92.3 | 3.76 |
| $CCaO_3$ | Calcium carbonate (calcite) | 1330 | 36 |
| $CCl_2O$ | Carbonyl chloride | -127.78 | 5.74 |
| $CCl_3F$ | Trichlorofluoromethane | -110.44 | 6.89 |
| $CCl_4$ | Tetrachloromethane | -22.62 | 2.56 |
| $CF_4$ | Tetrafluoromethane | -183.60 | 0.704 |
| $CHBr_3$ | Tribromomethane | 8.69 | 11.05 |
| $CHClF_2$ | Chlorodifluoromethane | -157.42 | 4.12 |
| $CHCl_3$ | Trichloromethane | -63.41 | 9.5 |
| $CHF_3$ | Trifluoromethane | -155.2 | 4.06 |
| $CHI_3$ | Triiodomethane | 121.2 | 16.44 |
| CHN | Hydrogen cyanide | -13.29 | 8.41 |
| $CHNaO_2$ | Sodium formate | 257.3 | 17.7 |
| $CHO_2Tl$ | Thallium(I) formate | 101 | 10.9 |
| $CH_2Cl_2$ | Dichloromethane | -97.2 | 4.60 |
| $CH_2N_2$ | Cyanamide | 45.56 | 7.27 |
| $CH_2N_4$ | Tetrazole | 157.3 | 18.2 |
| $CH_2O_2$ | Formic acid | 8.3 | 12.68 |
| $CH_3Br$ | Bromomethane | -93.68 | 5.98 |
| $CH_3Cl$ | Chloromethane | -97.7 | 6.43 |
| $CH_3NO$ | Formamide | 2.49 | 8.44 |
| $CH_3NO_2$ | Nitromethane | -28.38 | 9.70 |
| $CH_3NO_3$ | Methyl nitrate | -83.0 | 8.24 |
| $CH_4$ | Methane | -182.47 | 0.94 |
| $CH_4N_2O$ | Urea | 133.3 | 13.9 |
| $CH_4N_2S$ | Thiourea | 178 | 14.0 |
| $CH_4O$ | Methanol | -97.53 | 3.215 |
| $CH_4S$ | Methanethiol | -123 | 5.91 |
| $CH_5N$ | Methylamine | -93.5 | 6.13 |
| $CH_6N_2$ | Methylhydrazine | -52.36 | 10.42 |
| $CK_2O_3$ | Potassium carbonate | 898 | 27.6 |
| $CLi_2O_3$ | Lithium carbonate | 723 | 41 |
| $CMgO_3$ | Magnesium carbonate | 990 | 59 |
| $CNa_2O_3$ | Sodium carbonate | 858.1 | 29.7 |
| CO | Carbon monoxide | -205.02 | 0.833 |
| COS | Carbon oxysulfide | -138.8 | 4.73 |
| $CO_2$ | Carbon dioxide | -56.56 t | 9.02 |
| $CO_3Sr$ | Strontium carbonate | 1494 | 40 |
| $CO_3Tl_2$ | Thallium(I) carbonate | 272 | 18.4 |
| $CS_2$ | Carbon disulfide | -112.1 | 4.39 |
| $CSe_2$ | Carbon diselenide | -43.7 | 6.36 |
| $C_2Br_2F_4$ | 1,2-Dibromotetrafluoroethane | -110.32 | 7.04 |
| $C_2ClF_3$ | Chlorotrifluoroethene | -158.2 | 5.55 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_2ClF_5$ | Chloropentafluoroethane | -99.4 | 1.86 |
| $C_2Cl_2F_4$ | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | -92.53 | 1.51 |
| $C_2Cl_3F_3$ | 1,1,2-Trichloro-1,2,2-trifluoroethane | -36.22 | 2.47 |
| $C_2Cl_4$ | Tetrachloroethene | -22.3 | 10.88 |
| $C_2Cl_4F_2$ | 1,1,2,2-Tetrachloro-1,2-difluoroethane | 24.8 | 3.67 |
| $C_2Cl_6$ | Hexachloroethane | 186.8 t | 9.75 |
| $C_2F_4$ | Tetrafluoroethene | -131.15 | 7.72 |
| $C_2F_6$ | Hexafluoroethane | -100.05 | 2.69 |
| $C_2HCl_3$ | Trichloroethylene | -84.7 | 8.45 |
| $C_2HCl_3O_2$ | Trichloroacetic acid | 59.2 | 5.90 |
| $C_2HCl_5$ | Pentachloroethane | -28.78 | 11.3 |
| $C_2H_2Cl_2$ | 1,1-Dichloroethene | -122.56 | 6.51 |
| $C_2H_2Cl_2$ | *cis*-1,2-Dichloroethene | -80.0 | 7.2 |
| $C_2H_2Cl_4$ | 1,1,2,2-Tetrachloroethane | -42.4 | 9.17 |
| $C_2H_3Br$ | Bromoethene | -139.54 | 5.12 |
| $C_2H_3Cl$ | Chloroethene | -153.84 | 4.92 |
| $C_2H_3ClO_2$ | Chloroacetic acid | 63 | 12.28 |
| $C_2H_3Cl_3$ | 1,1,1-Trichloroethane | -30.01 | 2.35 |
| $C_2H_3Cl_3$ | 1,1,2-Trichloroethane | -36.3 | 11.46 |
| $C_2H_3F_3$ | 1,1,1-Trifluoroethane | -111.3 | 6.19 |
| $C_2H_3KO_2$ | Potassium acetate | 309 | 7.65 |
| $C_2H_3N$ | Acetonitrile | -43.82 | 8.16 |
| $C_2H_3NaO_2$ | Sodium acetate | 328.2 | 17.9 |
| $C_2H_4$ | Ethylene | -169.15 | 3.35 |
| $C_2H_4Br_2$ | 1,2-Dibromoethane | 9.84 | 10.89 |
| $C_2H_4Cl_2$ | 1,1-Dichloroethane | -96.9 | 7.87 |
| $C_2H_4Cl_2$ | 1,2-Dichloroethane | -35.7 | 8.84 |
| $C_2H_4O$ | Acetaldehyde | -123.37 | 2.31 |
| $C_2H_4O$ | Ethylene oxide | -112.5 | 5.17 |
| $C_2H_4O_2$ | Acetic acid | 16.64 | 11.73 |
| $C_2H_5Br$ | Bromoethane | -118.6 | 7.47 |
| $C_2H_5Cl$ | Chloroethane | -138.4 | 4.45 |
| $C_2H_5NO$ | Acetamide | 80.16 | 15.59 |
| $C_2H_5NO_2$ | Nitroethane | -89.5 | 9.85 |
| $C_2H_6$ | Ethane | -182.79 | 2.72* |
| $C_2H_6N_2O$ | *N*-Methylurea | 104.9 | 14.0 |
| $C_2H_6O$ | Ethanol | -114.14 | 4.931 |
| $C_2H_6O$ | Dimethyl ether | -141.5 | 4.94 |
| $C_2H_6OS$ | Dimethyl sulfoxide | 17.89 | 14.37 |
| $C_2H_6O_2$ | Ethylene glycol | -12.69 | 9.96 |
| $C_2H_6O_2S$ | Dimethyl sulfone | 108.9 | 18.30 |
| $C_2H_6S$ | Ethanethiol | -147.88 | 4.98 |
| $C_2H_6S$ | Dimethyl sulfide | -98.24 | 7.99 |
| $C_2H_6S_2$ | Dimethyl disulfide | -84.67 | 9.19 |
| $C_2H_6Zn$ | Dimethyl zinc | -43.0 | 6.83 |
| $C_2H_7N$ | Dimethylamine | -92.18 | 5.94 |
| $C_2H_8N_2$ | 1,2-Ethanediamine | 11.14 | 22.58 |
| $C_2H_8N_2$ | 1,1-Dimethylhydrazine | -57.20 | 10.07 |
| $C_2H_8N_2$ | 1,2-Dimethylhydrazine | -8.9 | 13.64 |
| $C_2N_2$ | Cyanogen | -27.83 | 8.11 |
| $C_3F_6O$ | Perfluoroacetone | -125.45 | 8.38 |
| $C_3F_8$ | Perfluoropropane | -147.70 | 0.477 |
| $C_3H_3N$ | Acrylonitrile | -83.48 | 6.23 |
| $C_3H_3NS$ | Thiazole | -33.62 | 9.57 |
| $C_3H_3N_3$ | 1,3,5-Triazine | 80.3 | 14.56 |
| $C_3H_4$ | Allene | -136.6 | 4.40 |
| $C_3H_4N_2$ | 1*H*-Pyrazole | 70.7 | 14.0 |
| $C_3H_4N_2$ | Imidazole | 89.5 | 12.82 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_3H_4O_2$ | Acrylic acid | 12.5 | 9.51 |
| $C_3H_5N$ | Propanenitrile | -92.78 | 5.03 |
| $C_3H_5N_3O_9$ | Trinitroglycerol | 13.5 | 21.87 |
| $C_3H_6$ | Propene | -185.24 | 3.003 |
| $C_3H_6$ | Cyclopropane | -127.58 | 5.44 |
| $C_3H_6Br_2$ | 1,2-Dibromopropane | -55.49 | 8.94 |
| $C_3H_6Br_2$ | 1,3-Dibromopropane | -34.5 | 14.6 |
| $C_3H_6Cl_2$ | 1,2-Dichloropropane, (±) | -100.53 | 6.40 |
| $C_3H_6Cl_2$ | 2,2-Dichloropropane | -33.9 | 2.30 |
| $C_3H_6O$ | Acetone | -94.7 | 5.77 |
| $C_3H_6O$ | Methyloxirane | -111.9 | 6.53 |
| $C_3H_6O$ | Oxetane | -97 | 6.5 |
| $C_3H_6O_2$ | Propanoic acid | -20.5 | 10.66 |
| $C_3H_6O_2$ | Methyl acetate | -98.25 | 7.49 |
| $C_3H_6O_2$ | 1,3-Dioxolane | -97.22 | 6.57 |
| $C_3H_6O_3$ | 1,3,5-Trioxane | 60.29 | 15.11 |
| $C_3H_6S$ | Thietane | -73.24 | 8.25 |
| $C_3H_7Br$ | 1-Bromopropane | -110.3 | 6.44 |
| $C_3H_7Br$ | 2-Bromopropane | -89.0 | 6.53 |
| $C_3H_7Cl$ | 1-Chloropropane | -122.9 | 5.54 |
| $C_3H_7Cl$ | 2-Chloropropane | -117.18 | 7.39 |
| $C_3H_7N$ | Cyclopropylamine | -35.39 | 13.18 |
| $C_3H_7NO$ | *N,N*-Dimethylformamide | -60.48 | 7.90 |
| $C_3H_8$ | Propane | -187.63 | 3.50 |
| $C_3H_8N_2O$ | *N,N*-Dimethylurea | 182.1 | 23.0 |
| $C_3H_8N_2O$ | N,N'-Dimethylurea | 106.6 | 13.0 |
| $C_3H_8O$ | 1-Propanol | -124.39 | 5.37 |
| $C_3H_8O$ | 2-Propanol | -87.9 | 5.41 |
| $C_3H_8O_2$ | 1,3-Propylene glycol | -27.7 | 7.1 |
| $C_3H_8O_2$ | Dimethoxymethane | -105.1 | 8.33 |
| $C_3H_8O_3$ | Glycerol | 18.1 | 18.3 |
| $C_3H_8S$ | 1-Propanethiol | -113.13 | 5.48 |
| $C_3H_8S$ | 2-Propanethiol | -130.5 | 5.74 |
| $C_3H_8S$ | Ethyl methyl sulfide | -105.93 | 9.76 |
| $C_3H_9N$ | Propylamine | -84.75 | 10.97 |
| $C_3H_9N$ | Isopropylamine | -95.13 | 7.33 |
| $C_3H_9N$ | Trimethylamine | -117.1 | 7 |
| $C_3H_9NO$ | 3-Amino-1-propanol | 12.4 | 19.7 |
| $C_4F_8$ | Perfluorocyclobutane | -40.19 | 2.77 |
| $C_4F_{10}$ | Perfluorobutane | -129.1 | 7.66 |
| $C_4H_2O_3$ | Maleic anhydride | 52.56 | 13.60 |
| $C_4H_4N_2$ | Succinonitrile | 57.98 | 3.70 |
| $C_4H_4N_2$ | Pyrazine | 51.0 | 12.9 |
| $C_4H_4O$ | Furan | -85.61 | 3.80 |
| $C_4H_4O_3$ | Succinic anhydride | 119 | 20.4 |
| $C_4H_4S$ | Thiophene | -38.21 | 5.07 |
| $C_4H_5N$ | Pyrrole | -23.39 | 7.91 |
| $C_4H_6$ | 1,2-Butadiene | -136.2 | 6.96 |
| $C_4H_6$ | 1,3-Butadiene | -108.91 | 7.98 |
| $C_4H_6$ | 1-Butyne | -125.7 | 6.03 |
| $C_4H_6$ | 2-Butyne | -32.2 | 9.23 |
| $C_4H_6O$ | Divinyl ether | -100.6 | 7.9 |
| $C_4H_6O_2$ | *cis*-Crotonic acid | 15 | 12.6 |
| $C_4H_6O_2$ | *trans*-Crotonic acid | 71.5 | 13.0 |
| $C_4H_6O_2$ | γ-Butyrolactone | -43.61 | 9.57 |
| $C_4H_6O_3$ | Acetic anhydride | -74.1 | 10.5 |
| $C_4H_6O_4$ | Succinic acid | 187.9 | 32.4 |
| $C_4H_6O_4$ | Dimethyl oxalate | 54.8 | 21.1 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_4H_8$ | 1-Butene | -185.34 | 3.96 |
| $C_4H_8$ | *cis*-2-Butene | -138.88 | 7.31 |
| $C_4H_8$ | *trans*-2-Butene | -105.52 | 9.76 |
| $C_4H_8$ | Isobutene | -140.7 | 5.92 |
| $C_4H_8$ | Cyclobutane | -90.7 | 1.09 |
| $C_4H_8$ | Methylcyclopropane | -177.6 | 2.8 |
| $C_4H_8O$ | Butanal | -96.86 | 10.77 |
| $C_4H_8O$ | 2-Butanone | -86.64 | 8.39 |
| $C_4H_8O$ | Tetrahydrofuran | -108.44 | 8.54 |
| $C_4H_8O_2$ | Butanoic acid | -5.1 | 11.59 |
| $C_4H_8O_2$ | Ethyl acetate | -83.8 | 10.48 |
| $C_4H_8O_2$ | 1,4-Dioxane | 11.85 | 12.84 |
| $C_4H_8S$ | Tetrahydrothiophene | -96.2 | 7.35 |
| $C_4H_9Br$ | 1-Bromobutane | -112.6 | 9.23 |
| $C_4H_9Br$ | 2-Bromobutane, (±) | -112.65 | 6.89 |
| $C_4H_9Cl$ | 2-Chloro-2-methylpropane | -25.60 | 2.07 |
| $C_4H_9N$ | Pyrrolidine | -57.79 | 8.58 |
| $C_4H_9NO$ | Morpholine | -4.8 | 14.5 |
| $C_4H_{10}$ | Butane | -138.3 | 4.66 |
| $C_4H_{10}$ | Isobutane | -159.4 | 4.54 |
| $C_4H_{10}O$ | 1-Butanol | -88.6 | 9.37 |
| $C_4H_{10}O$ | 2-Butanol | -88.5 | 5.97 |
| $C_4H_{10}O$ | 2-Methyl-1-propanol | -101.9 | 6.32 |
| $C_4H_{10}O$ | 2-Methyl-2-propanol | 25.69 | 6.70 |
| $C_4H_{10}O$ | Diethyl ether | -116.2 | 7.19 |
| $C_4H_{10}O_2$ | 1,4-Butanediol | 20.4 | 18.70 |
| $C_4H_{10}O_2$ | Ethylene glycol dimethyl ether | -69.20 | 12.6 |
| $C_4H_{10}S$ | 1-Butanethiol | -115.7 | 10.46 |
| $C_4H_{10}S$ | Diethyl sulfide | -103.91 | 10.90 |
| $C_4H_{11}N$ | *tert*-Butylamine | -66.94 | 0.882 |
| $C_4H_{12}Pb$ | Tetramethyl lead | -30.2 | 10.80 |
| $C_4H_{12}Si$ | Tetramethylsilane | -99.06 | 6.87 |
| $C_4H_{12}Sn$ | Tetramethylstannane | -55.1 | 9.30 |
| $C_5H_4O_2$ | Furfural | -38.1 | 14.37 |
| $C_5H_5N$ | Pyridine | -41.70 | 8.28 |
| $C_5H_6O$ | 2-Methylfuran | -91.3 | 8.55 |
| $C_5H_6O_2$ | Furfuryl alcohol | -14.6 | 13.13 |
| $C_5H_8$ | *cis*-1,3-Pentadiene | -140.8 | 5.64 |
| $C_5H_8$ | *trans*-1,3-Pentadiene | -87.4 | 7.14 |
| $C_5H_8$ | 1,4-Pentadiene | -148.2 | 6.12 |
| $C_5H_8$ | 2-Methyl-1,3-butadiene | -145.9 | 4.93 |
| $C_5H_8$ | Cyclopentene | -135.0 | 3.36 |
| $C_5H_8$ | Spiropentane | -107.0 | 6.43 |
| $C_5H_8O_2$ | Methyl methacrylate | -47.55 | 14.4 |
| $C_5H_8O_3$ | 4-Oxopentanoic acid | 33 | 9.22 |
| $C_5H_8O_4$ | Glutaric acid | 97.8 | 20.3 |
| $C_5H_9N$ | Pentanenitrile | -96.2 | 9 |
| $C_5H_{10}$ | 1-Pentene | -165.12 | 5.94 |
| $C_5H_{10}$ | *cis*-2-Pentene | -151.36 | 7.11 |
| $C_5H_{10}$ | *trans*-2-Pentene | -140.21 | 8.35 |
| $C_5H_{10}$ | 2-Methyl-1-butene | -137.53 | 7.91 |
| $C_5H_{10}$ | 3-Methyl-1-butene | -168.43 | 5.36 |
| $C_5H_{10}$ | 2-Methyl-2-butene | -133.72 | 7.60 |
| $C_5H_{10}$ | Cyclopentane | -93.4 | 0.61 |
| $C_5H_{10}O$ | Cyclopentanol | -17.5 | 1.535 |
| $C_5H_{10}O$ | 2-Pentanone | -76.8 | 10.63 |
| $C_5H_{10}O$ | 3-Pentanone | -39 | 11.59 |
| $C_5H_{10}O$ | 3-Methyl-2-butanone | -93.1 | 9.34 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_5H_{10}O$ | Tetrahydropyran | -49.1 | 1.8 |
| $C_5H_{10}O_2$ | Pentanoic acid | -33.6 | 14.16 |
| $C_5H_{11}Br$ | 1-Bromopentane | -88.0 | 14.37 |
| $C_5H_{11}N$ | Cyclopentylamine | -82.7 | 8.31 |
| $C_5H_{11}N$ | Piperidine | -11.02 | 14.85 |
| $C_5H_{12}$ | Pentane | -129.67 | 8.40 |
| $C_5H_{12}$ | Isopentane | -159.77 | 5.15 |
| $C_5H_{12}$ | Neopentane | -16.4 | 3.10 |
| $C_5H_{12}O$ | 1-Pentanol | -77.6 | 10.50 |
| $C_5H_{12}O$ | 2-Methyl-2-butanol | -9.1 | 4.46 |
| $C_5H_{12}O$ | Butyl methyl ether | -115.7 | 10.85 |
| $C_5H_{12}O$ | Methyl *tert*-butyl ether | -108.6 | 7.60 |
| $C_5H_{12}O_4$ | Pentaerythritol | 258 | 4.8 |
| $C_5H_{12}S$ | 1-Pentanethiol | -75.65 | 17.53 |
| $C_6Cl_6$ | Hexachlorobenzene | 228.83 | 25.2 |
| $C_6F_6$ | Hexafluorobenzene | 5.03 | 11.59 |
| $C_6F_{14}$ | Perfluorohexane | -88.2 | 6.84 |
| $C_6HF_5$ | Pentafluorobenzene | -47.4 | 10.87 |
| $C_6HF_5O$ | Pentafluorophenol | 37.5 | 16.41 |
| $C_6H_2F_4$ | 1,2,3,5-Tetrafluorobenzene | -46.25 | 6.36 |
| $C_6H_2F_4$ | 1,2,4,5-Tetrafluorobenzene | 3.88 | 15.05 |
| $C_6H_3Cl_3$ | 1,2,3-Trichlorobenzene | 51.3 | 17.9 |
| $C_6H_3Cl_3$ | 1,2,4-Trichlorobenzene | 16.92 | 16.4 |
| $C_6H_3Cl_3$ | 1,3,5-Trichlorobenzene | 62.8 | 18.1 |
| $C_6H_3N_3O_6$ | 1,3,5-Trinitrobenzene | 122.9 | 15.4 |
| $C_6H_4ClNO_2$ | 1-Chloro-2-nitrobenzene | 32.1 | 17.9 |
| $C_6H_4ClNO_2$ | 1-Chloro-3-nitrobenzene | 44.4 | 19.4 |
| $C_6H_4ClNO_2$ | 1-Chloro-4-nitrobenzene | 82 | 14.1 |
| $C_6H_4Cl_2$ | *o*-Dichlorobenzene | -17.0 | 12.4 |
| $C_6H_4Cl_2$ | *m*-Dichlorobenzene | -24.8 | 12.6 |
| $C_6H_4Cl_2$ | *p*-Dichlorobenzene | 53.09 | 18.19 |
| $C_6H_4F_2$ | *o*-Difluorobenzene | -47.1 | 11.05 |
| $C_6H_4F_2$ | *m*-Difluorobenzene | -69.12 | 8.58 |
| $C_6H_4O_2$ | *p*-Benzoquinone | 115 | 18.5 |
| $C_6H_5Br$ | Bromobenzene | -30.72 | 10.70 |
| $C_6H_5Cl$ | Chlorobenzene | -45.31 | 9.6 |
| $C_6H_5ClO$ | *o*-Chlorophenol | 9.4 | 13.0 |
| $C_6H_5ClO$ | *m*-Chlorophenol | 32.6 | 14.9 |
| $C_6H_5ClO$ | *p*-Chlorophenol | 42.8 | 14.1 |
| $C_6H_5F$ | Fluorobenzene | -42.18 | 11.31 |
| $C_6H_5I$ | Iodobenzene | -31.3 | 9.75 |
| $C_6H_5NO$ | Nitrosobenzene | 67 | 31.0 |
| $C_6H_5NO_2$ | Nitrobenzene | 5.7 | 12.12 |
| $C_6H_5NO_3$ | *o*-Nitrophenol | 44.8 | 17.7 |
| $C_6H_5NO_3$ | *m*-Nitrophenol | 96.8 | 20.6 |
| $C_6H_5NO_3$ | *p*-Nitrophenol | 113.6 | 18.8 |
| $C_6H_6$ | Benzene | 5.49 | 9.87 |
| $C_6H_6ClN$ | *o*-Chloroaniline | -1.9 | 11.9 |
| $C_6H_6ClN$ | *m*-Chloroaniline | -10.28 | 10.15 |
| $C_6H_6ClN$ | *p*-Chloroaniline | 70.5 | 20.0 |
| $C_6H_6N_2O_2$ | *o*-Nitroaniline | 71.0 | 16.1 |
| $C_6H_6N_2O_2$ | *m*-Nitroaniline | 113.4 | 23.6 |
| $C_6H_6N_2O_2$ | *p*-Nitroaniline | 147.5 | 21.2 |
| $C_6H_6O$ | Phenol | 40.89 | 11.51 |
| $C_6H_6O_2$ | *p*-Hydroquinone | 172.4 | 26.8 |
| $C_6H_6O_2$ | Pyrocatechol | 104.6 | 22.8 |
| $C_6H_6O_2$ | Resorcinol | 109.4 | 20.4 |
| $C_6H_6S$ | Benzenethiol | -14.93 | 11.48 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_6H_7N$ | Aniline | -6.02 | 10.54 |
| $C_6H_7N$ | 2-Methylpyridine | -66.68 | 9.72 |
| $C_6H_7N$ | 3-Methylpyridine | -18.14 | 14.18 |
| $C_6H_7N$ | 4-Methylpyridine | 3.67 | 12.58 |
| $C_6H_8N_2$ | *o*-Phenylenediamine | 102.1 | 23.1 |
| $C_6H_8N_2$ | *m*-Phenylenediamine | 66.0 | 15.57 |
| $C_6H_8N_2$ | *p*-Phenylenediamine | 141.1 | 23.8 |
| $C_6H_8N_2$ | Phenylhydrazine | 20.6 | 14.05 |
| $C_6H_{10}$ | Cyclohexene | -103.5 | 3.29 |
| $C_6H_{10}O$ | Cyclohexanone | -27.9 | 1.328 |
| $C_6H_{10}O_2$ | 2-Oxepanone | -1.0 | 13.83 |
| $C_6H_{10}O_4$ | Adipic acid | 152.5 | 36.3 |
| $C_6H_{11}Cl$ | Chlorocyclohexane | -43.81 | 2.043 |
| $C_6H_{12}$ | 1-Hexene | -139.76 | 9.35 |
| $C_6H_{12}$ | *cis*-2-Hexene | -141.11 | 8.88 |
| $C_6H_{12}$ | 2,3-Dimethyl-2-butene | -74.19 | 6.45 |
| $C_6H_{12}$ | Cyclohexane | 6.59 | 2.68 |
| $C_6H_{12}$ | Methylcyclopentane | -142.42 | 6.93 |
| $C_6H_{12}O$ | Hexanal | -56 | 13.3 |
| $C_6H_{12}O$ | 2-Hexanone | -55.5 | 14.9 |
| $C_6H_{12}O$ | 3-Hexanone | -55.4 | 13.49 |
| $C_6H_{12}O$ | Cyclohexanol | 25.93 | 1.78 |
| $C_6H_{12}O_3$ | Paraldehyde | 12.6 | 13.5 |
| $C_6H_{13}Br$ | 1-Bromohexane | -83.7 | 18.1 |
| $C_6H_{13}N$ | Cyclohexylamine | -17.8 | 17.5 |
| $C_6H_{14}$ | Hexane | -95.35 | 13.08 |
| $C_6H_{14}$ | 2-Methylpentane | -153.6 | 6.27 |
| $C_6H_{14}$ | 3-Methylpentane | -162.90 | 5.30 |
| $C_6H_{14}$ | 2,2-Dimethylbutane | -98.8 | 0.58 |
| $C_6H_{14}$ | 2,3-Dimethylbutane | -128.10 | 0.79 |
| $C_6H_{14}O$ | 1-Hexanol | -47.4 | 15.38 |
| $C_6H_{14}O$ | Dipropyl ether | -114.8 | 10.8 |
| $C_6H_{14}O$ | Diisopropyl ether | -85.4 | 12.04 |
| $C_6H_{14}O_2$ | 1,6-Hexanediol | 41.5 | 22.2 |
| $C_7F_8$ | Perfluorotoluene | -65.49 | 11.54 |
| $C_7F_{16}$ | Perfluoroheptane | -51.2 | 6.95 |
| $C_7H_3F_5$ | 2,3,4,5,6-Pentafluorotoluene | -29.78 | 13.1 |
| $C_7H_5ClO$ | Benzoyl chloride | -0.4 | 19.2 |
| $C_7H_5ClO_2$ | *o*-Chlorobenzoic acid | 140.2 | 25.6 |
| $C_7H_5N$ | Benzonitrile | -13.99 | 9.1 |
| $C_7H_5N_3O_6$ | 2,4,6-Trinitrotoluene | 80.5 | 22.9 |
| $C_7H_6O_2$ | Benzoic acid | 122.35 | 18.02 |
| $C_7H_6O_3$ | *o*-Hydroxybenzoic acid | 159.0 | 14.2 |
| $C_7H_7Cl$ | *o*-Chlorotoluene | -35.8 | 9.6 |
| $C_7H_7NO$ | Benzamide | 127.3 | 19.5 |
| $C_7H_7NO_2$ | *p*-Nitrotoluene | 51.63 | 16.81 |
| $C_7H_8$ | Toluene | -94.95 | 6.64 |
| $C_7H_8O$ | *o*-Cresol | 31.03 | 15.82 |
| $C_7H_8O$ | *m*-Cresol | 12.24 | 10.71 |
| $C_7H_8O$ | *p*-Cresol | 34.77 | 12.71 |
| $C_7H_8O$ | Benzyl alcohol | -15.4 | 8.97 |
| $C_7H_8O$ | Anisole | -37.13 | 12.9 |
| $C_7H_9N$ | *o*-Methylaniline | -14.41 | 11.66 |
| $C_7H_9N$ | *m*-Methylaniline | -31.3 | 7.9 |
| $C_7H_9N$ | *p*-Methylaniline | 43.6 | 18.9 |
| $C_7H_{14}$ | 1-Heptene | -118.9 | 12.41 |
| $C_7H_{14}$ | Cycloheptane | -8.46 | 1.88 |
| $C_7H_{14}$ | Methylcyclohexane | -126.6 | 6.75 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_7H_{14}O$ | 1-Heptanal | -43.4 | 23.2 |
| $C_7H_{14}O$ | Cycloheptanol | 7.2 | 1.60 |
| $C_7H_{14}O_2$ | Heptanoic acid | -7.17 | 15.13 |
| $C_7H_{15}Br$ | 1-Bromoheptane | -56.1 | 21.8 |
| $C_7H_{16}$ | Heptane | -90.55 | 14.03 |
| $C_7H_{16}$ | 2-Methylhexane | -118.2 | 9.19 |
| $C_7H_{16}$ | 3-Ethylpentane | -118.55 | 9.55 |
| $C_7H_{16}$ | 2,2-Dimethylpentane | -123.7 | 5.82 |
| $C_7H_{16}$ | 2,4-Dimethylpentane | -119.2 | 6.85 |
| $C_7H_{16}$ | 3,3-Dimethylpentane | -134.4 | 6.85 |
| $C_7H_{16}$ | 2,2,3-Trimethylbutane | -24.6 | 2.26 |
| $C_7H_{16}O$ | 1-Heptanol | -33.2 | 18.17 |
| $C_8H_8$ | Styrene | -30.65 | 10.9 |
| $C_8H_8O_2$ | *o*-Toluic acid | 103.5 | 19.5 |
| $C_8H_8O_2$ | *m*-Toluic acid | 109.9 | 15.7 |
| $C_8H_8O_2$ | *p*-Toluic acid | 179.6 | 22.7 |
| $C_8H_8O_2$ | Benzeneacetic acid | 76.5 | 16.3 |
| $C_8H_8O_2$ | Methyl benzoate | -12.4 | 9.74 |
| $C_8H_{10}$ | Ethylbenzene | -94.96 | 9.18 |
| $C_8H_{10}$ | *o*-Xylene | -25.2 | 13.6 |
| $C_8H_{10}$ | *m*-Xylene | -47.8 | 11.6 |
| $C_8H_{10}$ | *p*-Xylene | 13.25 | 17.12 |
| $C_8H_{10}O$ | 2,3-Xylenol | 72.5 | 21.0 |
| $C_8H_{10}O$ | 2,5-Xylenol | 74.8 | 23.4 |
| $C_8H_{10}O$ | 2,6-Xylenol | 45.8 | 18.9 |
| $C_8H_{10}O$ | 3,4-Xylenol | 65.1 | 18.1 |
| $C_8H_{10}O$ | 3,5-Xylenol | 63.4 | 17.4 |
| $C_8H_{16}$ | 1-Octene | -101.7 | 15.31 |
| $C_8H_{16}$ | Cyclooctane | 14.59 | 2.41 |
| $C_8H_{16}$ | Ethylcyclohexane | -111.3 | 8.33 |
| $C_8H_{16}$ | 1,1-Dimethylcyclohexane | -33.3 | 2.07 |
| $C_8H_{16}$ | *cis*-1,2-Dimethylcyclohexane | -49.8 | 1.64 |
| $C_8H_{16}$ | *trans*-1,2-Dimethylcyclohexane | -88.15 | 10.49 |
| $C_8H_{16}$ | *cis*-1,3-Dimethylcyclohexane | -75.53 | 10.82 |
| $C_8H_{16}$ | *trans*-1,3-Dimethylcyclohexane | -90.07 | 9.87 |
| $C_8H_{16}$ | *cis*-1,4-Dimethylcyclohexane | -87.39 | 9.31 |
| $C_8H_{16}$ | *trans*-1,4-Dimethylcyclohexane | -36.93 | 12.33 |
| $C_8H_{16}O_2$ | Octanoic acid | 16.5 | 21.35 |
| $C_8H_{17}Br$ | 1-Bromooctane | -55.0 | 24.7 |
| $C_8H_{18}$ | Octane | -56.82 | 20.73 |
| $C_8H_{18}$ | 2-Methylheptane | -109.02 | 11.92 |
| $C_8H_{18}$ | 3-Methylheptane | -120.48 | 11.69 |
| $C_8H_{18}$ | 4-Methylheptane | -121.0 | 10.8 |
| $C_8H_{18}$ | 2,2,4-Trimethylpentane | -107.3 | 9.20 |
| $C_8H_{18}O$ | 1-Octanol | -14.8 | 23.7 |
| $C_9H_7N$ | Quinoline | -14.78 | 10.66 |
| $C_9H_7N$ | Isoquinoline | 26.47 | 13.54 |
| $C_9H_8$ | Indene | -1.5 | 10.20 |
| $C_9H_{10}$ | Indan | -51.38 | 8.60 |
| $C_9H_{12}$ | Propylbenzene | -99.6 | 9.27 |
| $C_9H_{12}$ | Isopropylbenzene | -96.02 | 7.33 |
| $C_9H_{12}$ | *o*-Ethyltoluene | -79.83 | 9.96 |
| $C_9H_{12}$ | *m*-Ethyltoluene | -95.6 | 7.6 |
| $C_9H_{12}$ | *p*-Ethyltoluene | -62.35 | 12.7 |
| $C_9H_{12}$ | 1,2,3-Trimethylbenzene | -25.4 | 8.18 |
| $C_9H_{12}$ | 1,2,4-Trimethylbenzene | -43.77 | 13.19 |
| $C_9H_{12}$ | 1,3,5-Trimethylbenzene | -44.72 | 9.51 |
| $C_9H_{18}$ | Propylcyclohexane | -94.9 | 10.37 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_9H_{18}O$ | Nonanal | -19.3 | 30.5 |
| $C_9H_{18}O$ | 5-Nonanone | -3.8 | 24.93 |
| $C_9H_{18}O_2$ | Nonanoic acid | 12.4 | 19.82 |
| $C_9H_{20}$ | Nonane | -53.46 | 15.47 |
| $C_9H_{20}$ | 3,3-Diethylpentane | -33.1 | 10.09 |
| $C_9H_{20}$ | 2,2,3,3-Tetramethylpentane | -9.75 | 2.33 |
| $C_9H_{20}$ | 2,2,4,4-Tetramethylpentane | -66.54 | 9.74 |
| $C_{10}H_7Br$ | 1-Bromonaphthalene | 6.1 | 15.2 |
| $C_{10}H_7Br$ | 2-Bromonaphthalene | 55.9 | 14.4 |
| $C_{10}H_7Cl$ | 1-Chloronaphthalene | -2.5 | 12.9 |
| $C_{10}H_7Cl$ | 2-Chloronaphthalene | 58.0 | 14.0 |
| $C_{10}H_8$ | Naphthalene | 80.26 | 19.01 |
| $C_{10}H_8O$ | 1-Naphthol | 95.0 | 23.1 |
| $C_{10}H_8O$ | 2-Naphthol | 121.5 | 18.1 |
| $C_{10}H_{14}$ | Butylbenzene | -87.85 | 11.22 |
| $C_{10}H_{14}$ | 1-Isopropyl-4-methylbenzene | -67.94 | 9.66 |
| $C_{10}H_{14}$ | 1,2,4,5-Tetramethylbenzene | 79.3 | 21 |
| $C_{10}H_{14}O$ | Thymol | 49.5 | 21.3 |
| $C_{10}H_{18}$ | *cis*-Decahydronaphthalene | -42.9 | 9.49 |
| $C_{10}H_{18}$ | *trans*-Decahydronaphthalene | -30.4 | 14.41 |
| $C_{10}H_{18}O_4$ | Sebacic acid | 130.9 | 40.8 |
| $C_{10}H_{20}$ | 1-Decene | -66.3 | 13.81 |
| $C_{10}H_{20}$ | Butylcyclohexane | -74.73 | 14.16 |
| $C_{10}H_{20}O$ | Decanal | -4.0 | 34.5 |
| $C_{10}H_{20}O_2$ | Decanoic acid | 31.4 | 27.8 |
| $C_{10}H_{22}$ | Decane | -29.6 | 28.72 |
| $C_{10}H_{22}O$ | 1-Decanol | 6.9 | 43 |
| $C_{11}H_{10}$ | 1-Methylnaphthalene | -30.43 | 6.95 |
| $C_{11}H_{10}$ | 2-Methylnaphthalene | 34.6 | 12.13 |
| $C_{11}H_{24}$ | Undecane | -25.5 | 22.2 |
| $C_{12}H_8$ | Acenaphthylene | 91.8 | 6.9 |
| $C_{12}H_9N$ | Carbazole | 246.3 | 24.1 |
| $C_{12}H_{10}$ | Acenaphthene | 93.4 | 21.49 |
| $C_{12}H_{10}$ | Biphenyl | 68.93 | 18.57 |
| $C_{12}H_{10}N_2$ | Azobenzene | 67.88 | 22.52 |
| $C_{12}H_{10}N_2O$ | *trans*-Azoxybenzene | 34.6 | 17.9 |
| $C_{12}H_{10}O$ | Diphenyl ether | 26.87 | 17.22 |
| $C_{12}H_{11}N$ | Diphenylamine | 53.2 | 18.5 |
| $C_{12}H_{16}$ | Cyclohexylbenzene | 7.07 | 15.6 |
| $C_{12}H_{18}$ | Hexamethylbenzene | 165.5 | 20.6 |
| $C_{12}H_{24}$ | 1-Dodecene | -35.2 | 19.9 |
| $C_{12}H_{24}O_2$ | Dodecanoic acid | 43.8 | 36.3 |
| $C_{12}H_{26}$ | Dodecane | -9.57 | 36.8 |
| $C_{12}H_{26}O$ | 1-Dodecanol | 23.9 | 40.2 |
| $C_{13}H_{10}$ | 9*H*-Fluorene | 114.77 | 19.58 |
| $C_{13}H_{10}O$ | Benzophenone | 47.9 | 18.19 |
| $C_{13}H_{12}$ | Diphenylmethane | 25.4 | 18.6 |
| $C_{13}H_{28}$ | Tridecane | -5.4 | 28.50 |
| $C_{13}H_{28}O$ | 1-Tridecanol | 31.7 | 41.4 |
| $C_{14}H_{10}$ | Anthracene | 215.76 | 29.4 |
| $C_{14}H_{10}$ | Phenanthrene | 99.24 | 16.46 |
| $C_{14}H_{10}O_2$ | Benzil | 94.87 | 23.5 |
| $C_{14}H_{12}$ | *trans*-Stilbene | 124.2 | 27.7 |
| $C_{14}H_{12}O_2$ | α-Phenylbenzeneacetic acid | 147.29 | 31.3 |
| $C_{14}H_{28}O_2$ | Tetradecanoic acid | 54.2 | 45.1 |
| $C_{14}H_{30}$ | Tetradecane | 5.82 | 45.07 |
| $C_{14}H_{30}O$ | 1-Tetradecanol | 38.2 | 25.1* |
| $C_{15}H_{32}$ | Pentadecane | 9.95 | 34.6 |

| Molecular formula | Name | $t_m$/°C | $\Delta_{fus}H$/kJ mol$^{-1}$ |
|---|---|---|---|
| $C_{16}H_{10}$ | Fluoranthene | 110.19 | 18.69 |
| $C_{16}H_{10}$ | Pyrene | 150.62 | 17.36 |
| $C_{16}H_{32}O_2$ | Hexadecanoic acid | 62.5 | 53.7 |
| $C_{16}H_{34}$ | Hexadecane | 18.12 | 53.36 |
| $C_{16}H_{34}O$ | 1-Hexadecanol | 49.2 | 33.6 |
| $C_{17}H_{36}$ | Heptadecane | 22.0 | 40.16 |
| $C_{18}H_{12}$ | Benz[a]anthracene | 160.5 | 21.4 |
| $C_{18}H_{12}$ | Benzo[c]phenanthrene | 68 | 16.3 |
| $C_{18}H_{12}$ | Chrysene | 255.5 | 26.2 |
| $C_{18}H_{12}$ | Triphenylene | 197.8 | 24.74 |
| $C_{18}H_{14}$ | *o*-Terphenyl | 56.20 | 17.19 |
| $C_{18}H_{14}$ | *p*-Terphenyl | 213.9 | 35.3 |
| $C_{18}H_{15}N$ | Triphenylamine | 126.5 | 24.9 |
| $C_{18}H_{36}O_2$ | Stearic acid | 69.3 | 61.2 |
| $C_{18}H_{38}$ | Octadecane | 28.2 | 61.7 |
| $C_{18}H_{38}O$ | 1-Octadecanol | 57.9 | 45 |
| $C_{19}H_{40}$ | Nonadecane | 32.0 | 45.8 |
| $C_{20}H_{12}$ | Perylene | 277.76 | 31.9 |
| $C_{20}H_{12}$ | Benzo[a]pyrene | 181.1 | 17.3 |
| $C_{20}H_{12}$ | Benzo[e]pyrene | 181.4 | 16.6 |
| $C_{20}H_{14}$ | 2,2'-Binaphthalene | 187.9 | 38.9 |
| $C_{20}H_{42}$ | Eicosane | 36.6 | 69.9 |
| $C_{20}H_{42}O$ | 1-Eicosanol | 65.4 | 42 |
| $C_{24}H_{12}$ | Coronene | 437.4 | 19.2 |