



**Y A W S**

# THE YAWS HANDBOOK OF VAPOR PRESSURE

ANTOINE COEFFICIENTS

CARL L. YAWS



SECOND EDITION

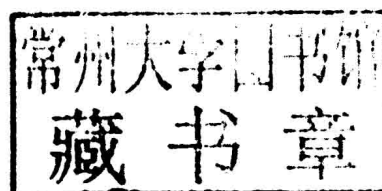


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Antoine Coefficients

Carl L. Yaws

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# The Yaws Handbook of Vapor Pressure



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|                                              |          |                                                |            |
|----------------------------------------------|----------|------------------------------------------------|------------|
| Contributors                                 | vi       |                                                |            |
| Acknowledgments                              | vi       |                                                |            |
| Disclaimer                                   | vi       |                                                |            |
| About the Authors                            | vii      |                                                |            |
| <b>1. Vapor Pressure – Organic Compounds</b> | <b>1</b> |                                                |            |
|                                              |          | <b>2. Vapor Pressure – Inorganic Compounds</b> | <b>315</b> |
|                                              |          | References                                     | 323        |
|                                              |          | Index                                          | 327        |

# Vapor Pressure – Organic Compounds

Carl L. Yaws, Marco A. Satyro

## TABULATION RESULTS

The tabulation is arranged by carbon number (C, C2, C3,....., C100) to provide ease of use in quickly locating the data by using the chemical formula. The compound name, chemical abstracts registry number (CAS No), and Antoine coefficients are provided in the adjacent columns. The range of application is denoted by minimum and maximum temperatures (TMIN and TMAX). Temperatures outside the range of application should not be used. The next column provides the code for the tabulation, which is based on both experimental data and estimated values.

In preparing the tabulation, a literature search was conducted to identify data source publications (1–52). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The estimates are primarily based on literature methods and empirical procedures developed by the author. If initial analysis using the estimates is favorable, follow-up experimental determination is recommended. This is especially true for highly polar and high molecular weight compounds.

A code of 1 in the tabulation is based on experimental data. A code of 2 indicates an estimate. The estimates with a code of 3 should be considered rough approximations. The estimates with a code of 2 are more accurate. For those substances which undergo decomposition (such as nitro compounds with explosive decomposition and very large compounds with thermal decomposition) prior to attaining the boiling point temperature, the boiling point temperature is a hypothetical value.

A comparison of calculated and data values is shown in Figure 1 for a representative compound. The graph discloses favorable agreement of equation and data.

## EXAMPLE

Calculate the vapor pressure of acetone (C<sub>3</sub>H<sub>6</sub>O) at 47.35°C.

Substitution of the Antoine coefficients from the table and temperature into the equation for vapor pressure yields:

$$\log_{10} P = 7.31742 - 1315.6735 / (47.35 + 240.479) = 2.7464$$

$$P = 10^{2.7464} = 557.70 \text{ mmHg}$$

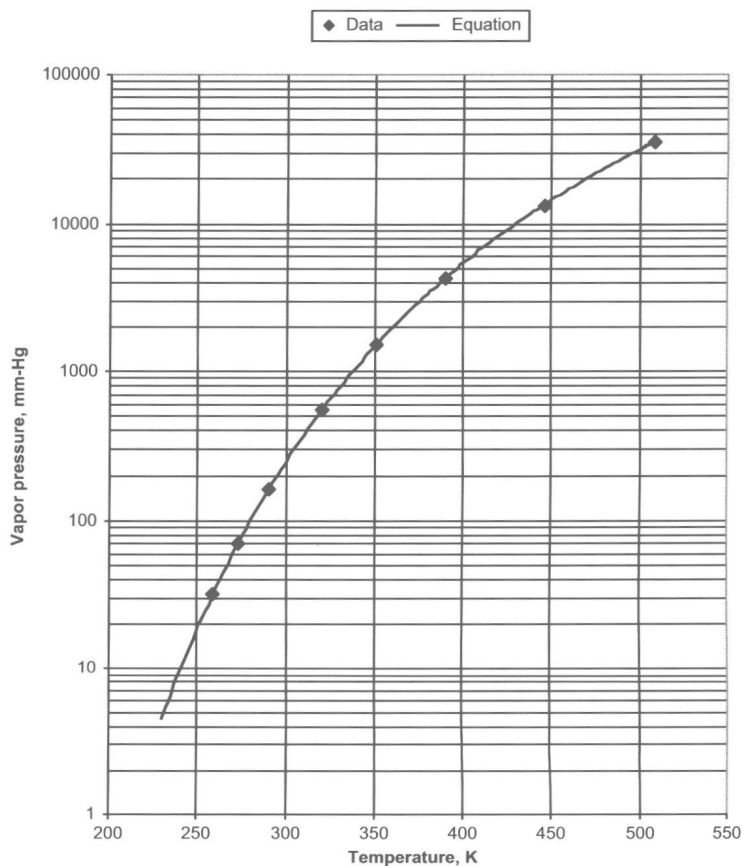


FIGURE 1 Vapor Pressure of Acetone

Table 1 Vapor Pressure – Organic Compounds

| log <sub>10</sub> P = A - B/(T + C) (P - mmHg, T - °C) |           |                                                                  |            |          |           |         |         |        |      |
|--------------------------------------------------------|-----------|------------------------------------------------------------------|------------|----------|-----------|---------|---------|--------|------|
| NO                                                     | FORMULA   | NAME                                                             | CAS No     | A        | B         | C       | TMIN    | TMAX   | code |
| 1                                                      | CAsCl2F3  | dichloro(trifluoro-methyl)arsine                                 | 421-32-9   | 6.44199  | 1078.1800 | 222.610 | -48.15  | 108.11 | 3    |
| 2                                                      | CBrClF2   | bromochlorodifluoromethane                                       | 353-59-3   | 6.96434  | 1008.7093 | 249.569 | -80.45  | 153.00 | 1,2  |
| 3                                                      | CBrCl2F   | bromodichlorofluoromethane                                       | 353-58-2   | 7.53163  | 1515.7000 | 273.150 | -41.09  | 75.30  | 1,2  |
| 4                                                      | CBrCl3    | bromotrichloromethane                                            | 75-62-7    | 7.17536  | 1468.7621 | 238.507 | -21.00  | 131.16 | 1,2  |
| 5                                                      | CBrFO     | carbonic bromide fluoride                                        | 753-56-0   | 7.61850  | 1196.7000 | 273.150 | -92.34  | -3.42  | 3    |
| 6                                                      | CBrF3     | bromotrifluoromethane                                            | 75-63-8    | 6.96895  | 800.4823  | 253.656 | -119.55 | 67.00  | 1,2  |
| 7                                                      | CBrN      | cyanogen bromide                                                 | 506-68-3   | 7.67970  | 1211.2170 | 190.995 | -13.00  | 78.42  | 1,2  |
| 8                                                      | CBr2ClF   | dibromochlorofluoromethane                                       | 353-55-9   | 7.68319  | 1697.4000 | 273.150 | -19.17  | 103.94 | 1,2  |
| 9                                                      | CBr2F2    | dibromodifluoromethane                                           | 75-61-6    | 7.13810  | 1187.3002 | 254.436 | -61.01  | 45.67  | 1,2  |
| 10                                                     | CBr3Cl    | tribromochloromethane                                            | 594-15-0   | 7.88553  | 1889.0287 | 273.150 | 1.20    | 128.49 | 1,2  |
| 11                                                     | CBr3F     | tribromofluoromethane                                            | 353-54-8   | 7.59674  | 1790.4000 | 273.150 | -1.74   | 132.39 | 1,2  |
| 12                                                     | CBr4      | carbon tetrabromide                                              | 558-13-4   | 8.36395  | 2539.1862 | 273.540 | 71.27   | 216.45 | 1,2  |
| 13                                                     | CClFO     | carbonyl chloride fluoride                                       | 353-49-1   | 8.10490  | 1187.2000 | 273.150 | -108.15 | -32.00 | 3    |
| 14                                                     | CClF2NO   | difluorocarbamoyl chloride                                       | 16847-30-6 | 7.91171  | 1347.3400 | 273.150 | -84.15  | 11.71  | 3    |
| 15                                                     | CClF3     | chlorotrifluoromethane                                           | 75-72-9    | 7.05630  | 746.7453  | 260.340 | -137.04 | 28.85  | 1,2  |
| 16                                                     | CClF3O    | trifluoromethyl hypochlorite                                     | 22082-78-6 | 7.41310  | 1025.0000 | 273.150 | -131.15 | -30.90 | 3    |
| 17                                                     | CClF3O2   | chloroperoxytrifluoromethane                                     | 32755-26-3 | 7.74210  | 1221.0000 | 273.150 | -92.05  | -5.40  | 3    |
| 18                                                     | CClF3O3S  | fluorosulphuric acid, chlorodifluoromethyl ester                 | 6069-31-4  | 6.71727  | 965.4680  | 214.792 | -46.15  | 58.29  | 3    |
| 19                                                     | CClF3O4   | perchloric acid, trifluoromethyl ester                           | 52003-45-9 | 7.48280  | 1301.0000 | 273.150 | -72.47  | 29.34  | 3    |
| 20                                                     | CClF3S    | trifluoromethanesulfonyl chloride                                | 421-17-0   | 6.13058  | 639.8900  | 197.500 | -72.78  | 19.51  | 3    |
| 21                                                     | CClF4N    | difluoro(difluoro-chloromethyl)amine                             | 13880-71-2 | 7.71462  | 1388.7700 | 273.150 | -66.32  | 33.23  | 3    |
| 22                                                     | CClF4NO2S | chloro(trifluoro-methyl)sulfamoyl fluoride                       | 19419-95-5 | 7.77610  | 1503.0000 | 273.150 | -51.34  | 54.00  | 3    |
| 23                                                     | CClF7S    | chlorotetrafluoro-(trifluoromethyl)sulfur                        | 42179-04-4 | 7.49010  | 1352.0000 | 273.150 | -64.83  | 40.67  | 3    |
| 24                                                     | CClN      | cyanogen chloride                                                | 506-77-4   | 7.04917  | 913.9610  | 206.412 | -55.32  | 29.92  | 1,2  |
| 25                                                     | CCl2FI    | dichlorofluoroiodo-methane                                       | 420-48-4   | 7.71448  | 1708.8600 | 273.150 | -18.65  | 103.86 | 3    |
| 26                                                     | CCl2F2    | dichlorodifluoromethane                                          | 75-71-8    | 6.92200  | 865.3109  | 243.873 | -97.75  | 111.97 | 1,2  |
| 27                                                     | CCl2F3N   | N,N-dichloro-1,1,1-trifluoromethylamine                          | 13880-73-4 | 7.53148  | 1347.3700 | 273.150 | -66.86  | 36.62  | 3    |
| 28                                                     | CCl2F3NS  | trifluoromethyl-imidosulfurous dichloride                        | 10564-47-3 | 5.95443  | 824.6840  | 173.735 | -7.28   | 123.71 | 3    |
| 29                                                     | CCl2F3PS  | dichloro(trifluoro-methylthio)phosphine                          | 18799-78-5 | 7.34500  | 1655.0000 | 273.150 | -12.31  | 124.39 | 3    |
| 30                                                     | CCl2O     | phosgene                                                         | 75-44-5    | 7.13083  | 1060.0797 | 241.870 | -68.96  | 181.85 | 1,2  |
| 31                                                     | CCl3F     | trichlorofluoromethane                                           | 75-69-4    | 6.99521  | 1081.9840 | 239.265 | -58.79  | 197.96 | 1,2  |
| 32                                                     | CCl3NO    | trichloronitroso-methane                                         | 3711-49-7  | 7.96010  | 1690.0000 | 273.150 | -30.34  | 80.54  | 3    |
| 33                                                     | CCl3NO2   | trichloronitromethane                                            | 76-06-2    | 8.61837  | 2388.4332 | 304.281 | 9.23    | 135.05 | 1,2  |
| 34                                                     | CCl3NSSi  | trichloroisothio-cyanatosilane                                   | 18157-00-1 | 7.99850  | 2060.0000 | 273.150 | 21.20   | 154.53 | 3    |
| 35                                                     | CCl3NSi   | trichlorosilane-carbonitrile                                     | 18157-01-2 | 7.75100  | 1687.0000 | 273.150 | -46.15  | 96.07  | 3    |
| 36                                                     | CCl4      | carbon tetrachloride                                             | 56-23-5    | 7.01101  | 1278.4541 | 232.888 | -22.82  | 128.20 | 1,2  |
| 37                                                     | CFN       | cyanogen fluoride                                                | 1495-50-7  | 7.45379  | 871.7310  | 236.627 | -101.55 | -32.52 | 1,2  |
| 38                                                     | CFNO3S    | sulfuryl fluoride isocyanate                                     | 1495-51-8  | 8.55887  | 1905.3600 | 273.150 | -21.08  | 81.20  | 3    |
| 39                                                     | CFNO6S2   | pyrosulfuryl fluoride isocyanate                                 | 27931-74-4 | 8.13500  | 2134.0000 | 273.150 | 25.94   | 157.69 | 3    |
| 40                                                     | CFN3O6    | fluorotrinitromethane                                            | 1840-42-2  | 7.98686  | 1821.0700 | 273.150 | -12.51  | 105.84 | 1,2  |
| 41                                                     | CF2N2     | difluorocyanamide                                                | 7127-18-6  | 7.97010  | 1075.0000 | 273.150 | -118.92 | -48.64 | 3    |
| 42                                                     | CF2N2OS   | cyanimidodisulfuryl fluoride                                     | 19073-57-5 | 8.36010  | 1945.0000 | 273.150 | -11.15  | 102.46 | 3    |
| 43                                                     | CF2N2O4   | difluorodinitro-methane                                          | 1185-11-1  | 9.87010  | 2163.9000 | 273.150 | -29.20  | 50.39  | 3    |
| 44                                                     | CF2N2S    | cyanimidodisulfurous difluoride                                  | 14453-41-9 | 8.98510  | 2302.0000 | 273.150 | -2.15   | 123.52 | 3    |
| 45                                                     | CF2O      | carbonyl fluoride                                                | 353-50-4   | 7.01535  | 623.7781  | 234.020 | -130.32 | -71.30 | 1,2  |
| 46                                                     | CF2O4S    | fluoroformyl fluorosulfate                                       | 7519-54-2  | 8.15675  | 1898.6650 | 314.573 | -49.28  | 67.08  | 3    |
| 47                                                     | CF2S      | thiocarbonyl fluoride                                            | 420-32-6   | 7.18210  | 908.0000  | 273.150 | -126.27 | -46.16 | 3    |
| 48                                                     | CF3I      | trifluoroiodomethane                                             | 2314-97-8  | 7.55367  | 1174.2900 | 273.150 | -93.97  | 123.29 | 1,2  |
| 49                                                     | CF3NO     | trifluoronitroso-methane                                         | 334-99-6   | 7.67410  | 895.8600  | 273.150 | -138.92 | -73.73 | 3    |
| 50                                                     | CF3NO     | (difluoroamino)-carbonyl fluoride                                | 2368-32-3  | 7.98400  | 1129.0000 | 273.150 | -130.15 | -38.05 | 3    |
| 51                                                     | CF3NOS    | S,S-difluoro-N-(fluoroformyl)-sulfilimine                        | 3855-41-2  | 8.94060  | 1950.0000 | 273.150 | -53.15  | 65.46  | 3    |
| 52                                                     | CF3NOS    | N-sulfinyltrifluoro-methanamine                                  | 10564-49-5 | 7.73310  | 1413.0000 | 273.150 | -63.29  | 37.31  | 3    |
| 53                                                     | CF3NO2    | fluoropicrin                                                     | 335-02-4   | 4.98325  | 217.2670  | 134.456 | -79.91  | -13.85 | 3    |
| 54                                                     | CF3NO4    | trifluoromethyl peroxonitrate                                    | 50311-48-3 | 7.62347  | 1297.3600 | 273.150 | -80.15  | 18.94  | 3    |
| 55                                                     | CF3NO6S2  | N-(fluoroformyl)-N,O-bis-(fluorosulfonyl)-hydroxylamine          | 19252-48-3 | 7.66950  | 1895.0000 | 273.150 | 10.98   | 149.12 | 3    |
| 56                                                     | CF4       | carbon tetrafluoride                                             | 75-73-0    | 6.95095  | 536.0296  | 259.748 | -169.67 | -45.64 | 1,2  |
| 57                                                     | CF4N2O    | fluoro(trifluoro-methyl)diazine                                  | 815-10-1   | 6.57768  | 744.0700  | 208.900 | -75.50  | 10.21  | 3    |
| 58                                                     | CF4N2O3S2 | carbonyl bis(imidosulfonyl fluoride)                             | 25523-80-2 | 8.38200  | 2159.0000 | 273.150 | 19.32   | 142.03 | 3    |
| 59                                                     | CF4O      | trifluoromethylhypofluorite                                      | 373-91-1   | 7.07781  | 689.2300  | 259.370 | -145.97 | -82.33 | 1,2  |
| 60                                                     | CF4OS     | trifluoromethane sulfinyl fluoride                               | 812-12-4   | 8.32352  | 1772.2020 | 328.111 | -86.12  | 16.56  | 3    |
| 61                                                     | CF4O2     | trifluoromethyl peroxyhypochlorite                               | 34511-13-2 | 7.03915  | 749.7100  | 249.850 | -125.71 | -55.49 | 3    |
| 62                                                     | CF4O2S    | trifluoromethane sulfonyl fluoride                               | 335-05-7   | 7.73610  | 1221.0000 | 273.150 | -91.89  | -5.05  | 3    |
| 63                                                     | CF4O5S2   | anhydride fluorosulfonic acid and trifluoromethane sulfonic acid | 21595-44-8 | 7.91810  | 1721.0000 | 273.150 | -24.38  | 90.22  | 3    |
| 64                                                     | CF5NO     | pentafluoro-methoxyamine                                         | 4217-93-0  | 7.37500  | 968.6000  | 273.150 | -121.21 | -42.15 | 3    |
| 65                                                     | CF5OPS    | phosphorothionic difluoride, S-trifluoromethyl ester             | 52752-66-6 | 6.90200  | 1207.4000 | 273.150 | -68.58  | 51.41  | 3    |
| 66                                                     | CF5O3P    | peroxyphosphoro-dichloric acid, trifluoromethyl ester            | 39125-42-3 | 8.67700  | 1672.8000 | 273.150 | -55.25  | 31.26  | 3    |
| 67                                                     | CF6N2S2   | N,N-(difluoromethylene)-bis(S,S-difluorosulfilimine)             | 17686-45-2 | 8.08110  | 1880.0000 | 273.150 | -7.65   | 110.58 | 3    |
| 68                                                     | CF6PS     | difluoro(trifluoro-methylthio)phosphine                          | 52752-65-5 | 7.08600  | 1164.2000 | 273.150 | -81.86  | 25.05  | 3    |
| 69                                                     | CF8OS     | pentafluoro(trifluoro-methoxy)sulfur                             | 1873-23-0  | 7.04054  | 951.5640  | 239.691 | -82.16  | 6.91   | 3    |
| 70                                                     | CF8S      | (trifluoromethyl)sulfur pentafluoride                            | 373-80-8   | 6.87018  | 862.5720  | 236.218 | -89.28  | -2.35  | 1,2  |
| 71                                                     | CF10O5S2  | [mi-[carbonodiper-oxato(2-)]decafluoro disulfur                  | 60672-59-5 | 8.08910  | 1988.4000 | 273.150 | 7.34    | 132.05 | 3    |
| 72                                                     | CHBrClF   | bromochlorofluoromethane                                         | 593-98-6   | 7.50414  | 1429.3000 | 273.150 | -53.40  | 57.53  | 1,2  |
| 73                                                     | CHBrCl2   | bromodichloromethane                                             | 75-27-4    | 7.50709  | 1679.3368 | 273.150 | -15.07  | 115.32 | 1,2  |
| 74                                                     | CHBrFI    | bromofluoroiodo-methane                                          | 1512-27-2  | 7.57428  | 1765.4480 | 273.150 | -4.61   | 128.78 | 3    |
| 75                                                     | CHBrF2    | bromodifluoromethane                                             | 1511-62-2  | 7.17517  | 1001.2154 | 248.627 | -86.49  | 138.83 | 1,2  |
| 76                                                     | CHBrI2    | dibromiodomethane                                                | 593-94-2   | 7.70155  | 2212.9104 | 273.150 | 57.06   | 216.46 | 3    |
| 77                                                     | CHBr2F    | dibromofluoromethane                                             | 1868-53-7  | 10.34916 | 2524.6760 | 273.150 | -3.11   | 79.10  | 1,2  |
| 78                                                     | CHBr3     | bromoform                                                        | 75-25-2    | 7.03871  | 1512.0403 | 214.805 | 8.05    | 177.71 | 1,2  |
| 79                                                     | CHClF2    | chlorodifluoromethane                                            | 75-45-6    | 7.06821  | 848.3508  | 243.376 | -103.57 | 96.15  | 1,2  |
| 80                                                     | CHCl2F    | dichlorofluoromethane                                            | 75-43-4    | 7.04611  | 1020.7998 | 236.222 | -67.39  | 178.43 | 1,2  |

Table 1 Vapor Pressure – Organic Compounds

| log <sub>10</sub> P = A - B/(T + C) (P - mmHg, T - C) |                                                               |                                                      |             |          |           |         |         |         |      |
|-------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|-------------|----------|-----------|---------|---------|---------|------|
| NO                                                    | FORMULA                                                       | NAME                                                 | CAS No      | A        | B         | C       | TMIN    | TMAX    | code |
| 81                                                    | CHCl <sub>2</sub> FO <sub>3</sub> S                           | fluorosulfuric acid, dichloromethyl ester            | 42016-50-2  | 8.00010  | 1890.0000 | 273.150 | -3.15   | 119.11  | 3    |
| 82                                                    | CHCl <sub>2</sub> I                                           | dichloriodomethane                                   | 594-04-7    | 7.61157  | 1916.6640 | 273.150 | 16.75   | 159.53  | 1,2  |
| 83                                                    | CHCl <sub>3</sub>                                             | chloroform                                           | 67-66-3     | 7.11289  | 1233.0732 | 230.213 | -28.50  | 263.25  | 1,2  |
| 84                                                    | CHCl <sub>3</sub> Ge                                          | trichloro(dichloro-methyl)germane                    | 21572-22-5  | 7.02412  | 1568.5700 | 209.020 | 39.85   | 199.22  | 3    |
| 85                                                    | CHF <sub>2</sub> I                                            | fluorodiiodomethane                                  | 1493-01-2   | 6.89756  | 1357.9000 | 238.060 | -7.81   | 156.99  | 1,2  |
| 86                                                    | CHFN <sub>2</sub> O <sub>4</sub>                              | fluorodinitromethane                                 | 7182-87-8   | 8.65010  | 2278.1000 | 273.150 | 24.64   | 143.45  | 3    |
| 87                                                    | CHFO                                                          | formyl fluoride                                      | 1493-02-3   | 8.04359  | 1273.4000 | 273.150 | -95.15  | -11.23  | 1,2  |
| 88                                                    | CHF <sub>2</sub> I                                            | difluoriodomethane                                   | 1493-03-4   | 7.11645  | 1170.9000 | 254.840 | -63.41  | 42.75   | 1,2  |
| 89                                                    | CHF <sub>3</sub>                                              | fluoroform                                           | 75-46-7     | 7.17660  | 724.7979  | 250.743 | -133.40 | 26.14   | 1,2  |
| 90                                                    | CHF <sub>3</sub> O <sub>2</sub>                               | trifluoromethyl hydroperoxide                        | 16156-36-8  | 8.55680  | 1614.5000 | 273.150 | -59.50  | 27.22   | 3    |
| 91                                                    | CHF <sub>3</sub> O <sub>3</sub> S                             | trifluoromethanesulfonic acid                        | 1493-13-6   | 8.58237  | 2492.1520 | 273.150 | 55.53   | 188.31  | 1,2  |
| 92                                                    | CHF <sub>3</sub> S                                            | trifluoromethanethiol                                | 1493-15-8   | 7.13011  | 920.6530  | 254.640 | -105.15 | -21.46  | 3    |
| 93                                                    | CHF <sub>7</sub> S                                            | (difluoromethyl)-sulfur                              | 420-67-7    | 6.89241  | 932.7300  | 227.390 | -69.10  | 23.98   | 3    |
| 94                                                    | CHI <sub>3</sub>                                              | iodoform                                             | 75-47-8     | 6.48485  | 969.2667  | 58.939  | 117.78  | 245.81  | 1,2  |
| 95                                                    | CHN                                                           | hydrogen cyanide                                     | 74-90-8     | 8.00604  | 1602.8822 | 286.893 | -58.11  | 183.50  | 1,2  |
| 96                                                    | CHNO                                                          | cyanic acid                                          | 420-05-3    | 7.54917  | 1247.0196 | 243.792 | -53.38  | 41.74   | 1,2  |
| 97                                                    | CH <sub>2</sub> BrCl                                          | bromochloromethane                                   | 74-97-5     | 7.30547  | 1357.0605 | 238.654 | -23.43  | 90.44   | 1,2  |
| 98                                                    | CH <sub>2</sub> Br <sub>2</sub>                               | dibromomethane                                       | 74-95-3     | 7.24310  | 1424.3958 | 229.675 | -1.52   | 121.19  | 1,2  |
| 99                                                    | CH <sub>2</sub> ClF                                           | chlorofluoromethane                                  | 593-70-4    | 7.19639  | 1029.4612 | 247.695 | -81.56  | 8.82    | 1,2  |
| 100                                                   | CH <sub>2</sub> Cl <sub>2</sub>                               | dichloromethane                                      | 75-09-2     | 7.10959  | 1151.4617 | 232.442 | -43.97  | 236.85  | 1,2  |
| 101                                                   | CH <sub>2</sub> Cl <sub>4</sub> Ge                            | trichloro(chloro-methyl)germane                      | 21572-18-9  | 6.82539  | 1381.5500 | 197.330 | 29.85   | 181.85  | 3    |
| 102                                                   | CH <sub>2</sub> Cl <sub>4</sub> OSi                           | trichloro(chloro-methoxy)silane                      | 18157-08-9  | 8.39500  | 2159.0000 | 273.150 | -0.15   | 140.99  | 3    |
| 103                                                   | CH <sub>2</sub> Cl <sub>6</sub> Si <sub>2</sub>               | bis(trichlorosilyl)methane                           | 4142-85-2   | 8.10986  | 2380.0000 | 273.150 | 54.85   | 209.80  | 3    |
| 104                                                   | CH <sub>2</sub> F <sub>2</sub>                                | difluoromethane                                      | 75-10-5     | 7.29020  | 863.5921  | 247.503 | -110.21 | 78.11   | 1,2  |
| 105                                                   | CH <sub>2</sub> F <sub>3</sub> NS                             | 1,1,1-trifluoromethane-sulfenamide                   | 1512-33-0   | 8.46010  | 1783.0000 | 273.150 | -55.15  | 64.65   | 3    |
| 106                                                   | CH <sub>2</sub> I <sub>2</sub>                                | diiodomethane                                        | 75-11-6     | 6.95585  | 1572.4651 | 204.877 | 59.14   | 213.13  | 1,2  |
| 107                                                   | CH <sub>2</sub> O                                             | formaldehyde                                         | 50-00-0     | 8.15816  | 1194.1401 | 254.377 | -92.00  | -2.56   | 1,2  |
| 108                                                   | CH <sub>2</sub> O <sub>2</sub>                                | formic acid                                          | 64-18-6     | 6.96405  | 1162.8529 | 184.037 | 8.40    | 314.85  | 1,2  |
| 109                                                   | CH <sub>3</sub> AsCl <sub>2</sub>                             | methylchloroarsine                                   | 593-89-5    | 8.19810  | 2142.6000 | 273.150 | 24.51   | 153.98  | 3    |
| 110                                                   | CH <sub>3</sub> AsF <sub>2</sub>                              | methyldifluoroarsine                                 | 420-24-6    | 7.26094  | 1276.0025 | 214.816 | -15.00  | 98.00   | 3    |
| 111                                                   | CH <sub>3</sub> BCl <sub>2</sub> O                            | dichloromethoxy-borane(3)                            | 867-46-9    | 6.80260  | 1067.7000 | 214.270 | -30.27  | 80.61   | 3    |
| 112                                                   | CH <sub>3</sub> BO                                            | borane carbonyl                                      | 13205-44-2  | 7.99762  | 1090.2080 | 277.064 | -124.00 | -50.68  | 3    |
| 113                                                   | CH <sub>3</sub> Br                                            | methyl bromide                                       | 74-83-9     | 7.34706  | 1147.2897 | 253.430 | -93.60  | 153.85  | 1,2  |
| 114                                                   | CH <sub>3</sub> BrHg                                          | bromomethylmercury                                   | 506-83-2    | 9.97310  | 3530.0000 | 273.150 | 120.25  | 246.64  | 3    |
| 115                                                   | CH <sub>3</sub> Cl                                            | methyl chloride                                      | 74-87-3     | 7.12118  | 888.0835  | 235.586 | -97.70  | 103.10  | 1,2  |
| 116                                                   | CH <sub>3</sub> ClHg                                          | chloromethyl mercury                                 | 115-09-3    | 9.42880  | 3371.4000 | 273.150 | 126.84  | 266.54  | 3    |
| 117                                                   | CH <sub>3</sub> Cl <sub>2</sub> FSi                           | dichlorofluoro-methylsilane                          | 420-58-6    | 7.74530  | 1472.3000 | 273.150 | -54.88  | 49.48   | 3    |
| 118                                                   | CH <sub>3</sub> Cl <sub>2</sub> P                             | dichloromethylphosphine                              | 676-83-5    | 8.11696  | 1857.0000 | 273.150 | -12.22  | 103.13  | 3    |
| 119                                                   | CH <sub>3</sub> Cl <sub>3</sub> Ge                            | trichloromethyl-germane                              | 993-10-2    | 7.04305  | 1412.5200 | 227.100 | 6.64    | 138.72  | 3    |
| 120                                                   | CH <sub>3</sub> Cl <sub>3</sub> Si                            | methyl trichlorosilane                               | 75-79-6     | 7.19041  | 1371.1567 | 251.814 | -30.32  | 243.85  | 1,2  |
| 121                                                   | CH <sub>3</sub> Cl <sub>5</sub> Si <sub>2</sub>               | pentachloromethyl-disilane                           | 26980-40-5  | 7.91847  | 2186.1100 | 281.290 | 34.69   | 180.24  | 3    |
| 122                                                   | CH <sub>3</sub> F                                             | methyl fluoride                                      | 593-53-3    | 7.15783  | 754.1698  | 254.481 | -141.80 | 44.13   | 1,2  |
| 123                                                   | CH <sub>3</sub> F <sub>2</sub> N                              | N,N-difluoromethanamine                              | 753-58-2    | 6.85087  | 871.0500  | 235.370 | -86.49  | 2.04    | 3    |
| 124                                                   | CH <sub>3</sub> F <sub>2</sub> NS                             | methylimidodisulfurous difluoride                    | 758-20-3    | 8.05280  | 1498.4600 | 273.150 | -79.15  | 34.48   | 3    |
| 125                                                   | CH <sub>3</sub> F <sub>2</sub> OPS                            | difluorothiophosphoric acid, S-methyl ester          | 25237-37-0  | 6.77589  | 1107.4900 | 229.214 | -37.47  | 78.93   | 3    |
| 126                                                   | CH <sub>3</sub> F <sub>2</sub> OPS                            | phosphorothionyl difluoride, S-trifluoromethyl ester | 900001-60-7 | 6.77589  | 1107.4900 | 229.210 | -37.47  | 78.94   | 3    |
| 127                                                   | CH <sub>3</sub> F <sub>2</sub> P                              | methylphosphorous difluoride                         | 753-59-3    | 7.83010  | 1220.0000 | 273.150 | -99.15  | -10.69  | 3    |
| 128                                                   | CH <sub>3</sub> F <sub>2</sub> PS <sub>2</sub>                | phosphorodithionyl difluoride, methyl ester          | 21348-13-0  | 8.16244  | 1857.0700 | 260.930 | -20.15  | 111.93  | 3    |
| 129                                                   | CH <sub>3</sub> F <sub>3</sub> Si                             | trifluoromethylsilane                                | 373-74-0    | 7.98069  | 1239.2703 | 273.150 | -95.62  | -14.85  | 1,2  |
| 130                                                   | CH <sub>3</sub> F <sub>4</sub> NP <sub>2</sub> S <sub>2</sub> | N,N-bis(difluorothio-phosphoryl)methyl-amine         | 25741-62-2  | 7.99091  | 2092.1200 | 278.040 | -0.15   | 157.00  | 3    |
| 131                                                   | CH <sub>3</sub> HgI                                           | iodomethylmercury                                    | 143-36-2    | 9.50320  | 3393.7000 | 273.150 | 125.96  | 263.71  | 3    |
| 132                                                   | CH <sub>3</sub> I                                             | methyl iodide                                        | 74-88-4     | 7.32759  | 1315.1641 | 253.207 | -66.45  | 64.03   | 1,2  |
| 133                                                   | CH <sub>3</sub> NO                                            | formamide                                            | 75-12-7     | 7.63804  | 2012.7029 | 203.234 | 99.97   | 248.43  | 1,2  |
| 134                                                   | CH <sub>3</sub> NOS                                           | N-sulfinylmethanamine                                | 4291-05-8   | 7.92501  | 1659.9500 | 273.150 | -33.45  | 76.82   | 3    |
| 135                                                   | CH <sub>3</sub> NO <sub>2</sub>                               | nitromethane                                         | 75-52-5     | 7.55040  | 1591.7183 | 239.919 | -28.55  | 315.00  | 1,2  |
| 136                                                   | CH <sub>3</sub> NO <sub>3</sub>                               | methyl nitrate                                       | 598-58-3    | 7.34608  | 1351.0264 | 237.714 | -24.82  | 88.27   | 1,2  |
| 137                                                   | CH <sub>4</sub>                                               | methane                                              | 74-82-8     | 6.84377  | 435.4534  | 271.361 | -196.85 | -82.59  | 1,2  |
| 138                                                   | CH <sub>4</sub> CIFSi                                         | chlorofluoro-methylsilane                            | 373-67-1    | 7.60660  | 1296.6000 | 273.150 | -76.89  | 19.88   | 3    |
| 139                                                   | CH <sub>4</sub> Cl <sub>2</sub> Ge                            | dichloromethyl-germane                               | 1111-82-6   | 6.87108  | 1383.9900 | 233.170 | 2.56    | 141.97  | 3    |
| 140                                                   | CH <sub>4</sub> Cl <sub>2</sub> OSi                           | dichloromethoxy-silane                               | 6485-89-8   | 7.84000  | 1600.0000 | 273.150 | -39.23  | 70.33   | 3    |
| 141                                                   | CH <sub>4</sub> Cl <sub>2</sub> Si                            | methyl dichlorosilane                                | 75-54-7     | 7.26897  | 1279.3211 | 250.690 | -46.62  | 63.26   | 1,2  |
| 142                                                   | CH <sub>4</sub> F <sub>2</sub> NPS                            | N-methylphosphor-amidodithionyl                      | 31411-30-0  | 10.33813 | 3721.2300 | 373.610 | -0.15   | 146.38  | 3    |
| 143                                                   | CH <sub>4</sub> F <sub>2</sub> Si                             | difluoromethylsilane                                 | 420-34-8    | 7.76550  | 1160.4000 | 273.150 | -101.63 | -19.99  | 3    |
| 144                                                   | CH <sub>4</sub> O                                             | methyl alcohol                                       | 67-56-1     | 8.08404  | 1580.4585 | 239.096 | -15.99  | 199.45  | 1,2  |
| 145                                                   | CH <sub>4</sub> S                                             | methyl mercaptan                                     | 74-93-1     | 7.07302  | 1008.9751 | 234.729 | -68.59  | 156.80  | 1,2  |
| 146                                                   | CH <sub>5</sub> ClSi                                          | methyl chlorosilane                                  | 993-00-0    | 7.04725  | 1054.7751 | 244.460 | -70.04  | 28.42   | 3    |
| 147                                                   | CH <sub>5</sub> ClSi                                          | (chloromethyl)silane                                 | 10112-09-1  | 8.09302  | 1719.2800 | 298.600 | -56.21  | 51.48   | 3    |
| 148                                                   | CH <sub>5</sub> FGe                                           | fluoromethyl germane                                 | 30123-02-5  | 8.41300  | 1728.0000 | 273.150 | -47.15  | 57.18   | 3    |
| 149                                                   | CH <sub>5</sub> N                                             | methylamine                                          | 74-89-5     | 7.36511  | 1025.6120 | 235.062 | -93.46  | 116.90  | 1,2  |
| 150                                                   | CH <sub>6</sub> ClN                                           | methylamine hydrochloride                            | 593-51-1    | 7.55103  | 3176.4452 | 273.150 | 211.73  | 453.86  | 1,2  |
| 151                                                   | CH <sub>6</sub> GeS                                           | (methylthio)germane                                  | 16643-16-6  | 7.22735  | 1556.1500 | 273.150 | -50.15  | 111.51  | 3    |
| 152                                                   | CH <sub>6</sub> N <sub>2</sub>                                | methylhydrazine                                      | 60-34-4     | 6.56358  | 997.6946  | 180.059 | -0.73   | 115.76  | 1,2  |
| 153                                                   | CH <sub>6</sub> OSi                                           | methyl silyl ether                                   | 2171-96-2   | 3.98012  | 185.6317  | 149.984 | -90.20  | 82.56   | 3    |
| 154                                                   | CH <sub>6</sub> Si                                            | methyl silane                                        | 992-94-9    | 7.10688  | 873.3901  | 263.567 | -120.55 | -41.05  | 3    |
| 155                                                   | CH <sub>7</sub> ClSi <sub>2</sub>                             | [(chlorosilyl)methyl]-silane                         | 35483-45-5  | 7.83841  | 1674.1300 | 273.150 | -28.34  | 86.37   | 3    |
| 156                                                   | CH <sub>7</sub> ClSi <sub>2</sub>                             | (chloromethyl)-disilane                              | 54713-74-5  | 8.09282  | 1875.0700 | 273.150 | -23.15  | 108.66  | 3    |
| 157                                                   | ClN                                                           | cyanogen iodide                                      | 506-78-5    | 7.77010  | 2090.1000 | 273.150 | 35.58   | 182.38  | 3    |
| 158                                                   | Cl <sub>4</sub>                                               | carbon tetrachloride                                 | 507-25-5    | 7.02508  | 2058.5919 | 167.532 | 174.14  | 368.11  | 3    |
| 159                                                   | CNNa                                                          | sodium cyanide                                       | 143-33-9    | 7.60389  | 8476.9617 | 298.798 | 984.83  | 1618.18 | 3    |
| 160                                                   | CN <sub>4</sub> O <sub>8</sub>                                | tetranitromethane                                    | 509-14-8    | 8.32676  | 2186.3824 | 275.420 | 18.00   | 149.54  | 1,2  |

Table 1 Vapor Pressure – Organic Compounds

| log <sub>10</sub> P = A - B/(T + C) (P - mmHg, T - C) |             |                                                        |             |          |           |         |         |         |      |
|-------------------------------------------------------|-------------|--------------------------------------------------------|-------------|----------|-----------|---------|---------|---------|------|
| NO                                                    | FORMULA     | NAME                                                   | CAS No      | A        | B         | C       | TMIN    | TMAX    | code |
| 161                                                   | CO          | carbon monoxide                                        | 630-08-0    | 6.72828  | 295.2279  | 268.243 | -216.70 | -140.29 | 1,2  |
| 162                                                   | COS         | carbonyl sulfide                                       | 463-58-1    | 7.00732  | 833.1578  | 252.064 | -113.37 | 105.62  | 1,2  |
| 163                                                   | COSe        | carbon oxyselelide                                     | 1603-84-5   | 7.16912  | 1024.3828 | 260.378 | -94.33  | -3.47   | 3    |
| 164                                                   | CO2         | carbon dioxide                                         | 124-38-9    | 9.81367  | 1340.9768 | 271.883 | -119.74 | -8.96   | 1,2  |
| 165                                                   | CSSe        | carbonyl selenide sulfide                              | 5951-19-9   | 6.85564  | 1257.9970 | 230.793 | -15.96  | 111.63  | 3    |
| 166                                                   | CS2         | carbon disulfide                                       | 75-15-0     | 7.22603  | 1305.4917 | 254.394 | -44.71  | 238.85  | 1,2  |
| 167                                                   | CSe2        | carbon diselenide                                      | 506-80-9    | 6.81633  | 1364.5803 | 221.235 | 13.38   | 154.22  | 3    |
| 168                                                   | C2AsClF6    | chlorobis(trifluoromethyl)arsine                       | 359-53-5    | 8.20855  | 1705.6100 | 275.050 | -65.15  | 64.26   | 3    |
| 169                                                   | C2BrClF3O4  | 1,2,2-trifluoro-1-chloro-2-bromoethyl perchlorate      | 900001-86-7 | 8.59682  | 2217.9000 | 273.150 | -0.15   | 136.44  | 3    |
| 170                                                   | C2BrCl3O    | trichloroacetyl bromide                                | 34069-94-8  | 7.18625  | 1612.9888 | 231.640 | 29.10   | 171.16  | 1,2  |
| 171                                                   | C2BrCl5     | bromopentachloroethane                                 | 79504-02-2  | 7.33000  | 2320.0000 | 273.150 | 93.36   | 286.14  | 3    |
| 172                                                   | C2BrF3      | bromotrifluoroethylene                                 | 598-73-2    | 6.94612  | 998.6736  | 246.808 | -78.85  | 18.50   | 1,2  |
| 173                                                   | C2BrF5      | bromopentafluoroethane                                 | 354-55-2    | 7.43006  | 1147.0931 | 273.150 | -94.75  | -3.13   | 1,2  |
| 174                                                   | C2BrF5Se    | pentafluoroethane selenyl bromide                      | 6123-59-7   | 8.26010  | 1800.0000 | 273.150 | -31.15  | 81.30   | 3    |
| 175                                                   | C2BrF9S     | (1-bromo-1,2,2-tetrafluoroethyl)-pentafluoro           | 63011-81-4  | 7.73200  | 1603.0000 | 273.150 | -35.03  | 79.15   | 3    |
| 176                                                   | C2Br2ClF3   | 1,2-dibromo-1-chloro-1,2,2-trifluoroethane             | 354-51-8    | 6.73180  | 1166.3480 | 209.870 | -6.38   | 118.68  | 1,2  |
| 177                                                   | C2Br2Cl2F2  | 1,2-dibromo-1,2-dichlorodifluoroethane                 | 421-69-2    | 7.81510  | 2037.6000 | 273.150 | 25.83   | 166.63  | 3    |
| 178                                                   | C2Br2Cl2F2  | 1,2-dibromo-1,1-dichlorodifluoroethane                 | 558-57-6    | 7.81510  | 2033.1000 | 273.150 | 25.17   | 165.66  | 3    |
| 179                                                   | C2Br2Cl4    | 1,2-dibromo-1,1,2,2-tetrachloroethane                  | 630-25-1    | 8.18010  | 2740.0000 | 273.150 | 108.46  | 275.04  | 3    |
| 180                                                   | C2Br2F4     | 1,2-dibromotetrafluoroethane                           | 124-73-2    | 7.05861  | 1207.6931 | 242.224 | -42.89  | 214.65  | 1,2  |
| 181                                                   | C2Br3F3     | 1,1,1-tribromo-2,2,2-trifluoroethane                   | 354-48-3    | 7.85210  | 1922.3000 | 273.150 | 7.39    | 138.46  | 3    |
| 182                                                   | C2Br4       | tetrabromoethane                                       | 79-28-7     | 3.47164  | 182.6382  | 82.571  | -8.68   | 547.65  | 1,2  |
| 183                                                   | C2ClFN2     | trans-chloro(fluoroimino) acetonitrile                 | 30915-39-0  | 7.41725  | 1278.8100 | 236.492 | -37.21  | 65.44   | 3    |
| 184                                                   | C2ClFN2     | cis-chloro(fluoroimino)acetonitrile                    | 30915-40-3  | 7.50782  | 1358.2600 | 247.698 | -38.99  | 66.28   | 3    |
| 185                                                   | C2ClF3      | chlorotrifluoroethylene                                | 79-38-9     | 7.03729  | 881.5941  | 240.451 | -94.43  | 106.00  | 1,2  |
| 186                                                   | C2ClF3O2    | trifluoromethyl chloroformate                          | 23213-83-4  | 6.50354  | 849.3200  | 227.220 | -78.15  | 28.47   | 3    |
| 187                                                   | C2ClF3O4S   | difluorochloroacetic fluorosulfonic anhydride          | 6069-32-5   | 7.30232  | 1293.4400 | 214.110 | -8.88   | 99.80   | 3    |
| 188                                                   | C2ClF5      | chloropentafluoroethane                                | 76-15-3     | 6.91015  | 854.2785  | 249.665 | -105.12 | 79.95   | 1,2  |
| 189                                                   | C2ClF5O     | hypochlorous acid, pentafluoroethyl ester              | 22675-67-8  | 6.75332  | 855.5000  | 229.110 | -80.41  | 10.43   | 3    |
| 190                                                   | C2ClF5OS    | pentafluoroethane-sulfinyl                             | 39937-08-1  | 7.97400  | 1707.4000 | 273.150 | -28.33  | 83.14   | 3    |
| 191                                                   | C2ClF5O4    | perchloric acid, pentafluoroethyl ester                | 53011-52-2  | 7.63560  | 1430.8000 | 273.150 | -57.53  | 48.11   | 3    |
| 192                                                   | C2ClF5O6S2  | 1-chloro-1,2,2-trifluoro-1,2-ethanediol                | 1957-17-1   | 5.07505  | 473.7380  | 83.873  | 32.38   | 166.36  | 3    |
| 193                                                   | C2ClF5Se    | pentafluoroethane selenyl chloride                     | 6123-50-8   | 7.78010  | 1580.0000 | 273.150 | -58.15  | 70.46   | 3    |
| 194                                                   | C2ClF9S     | (2-chloro-1,1,2,2-tetrafluoroethyl)-pentafluoro        | 646-63-9    | 7.49400  | 1479.0000 | 273.150 | -45.40  | 69.83   | 3    |
| 195                                                   | C2ClF9S     | chlorotetrafluoro-(pentafluoroethyl)-sulfur            | 42769-85-7  | 7.50010  | 1497.0000 | 273.150 | -42.85  | 73.52   | 3    |
| 196                                                   | C2Cl2F2     | 1,1-dichloro-2,2-difluoroethene                        | 79-35-6     | 7.09974  | 1058.3177 | 232.000 | -58.50  | 38.29   | 1,2  |
| 197                                                   | C2Cl2F2     | 1,2-dichloro-1,2-difluoroethene                        | 598-88-9    | 7.05132  | 1053.6527 | 231.294 | -57.17  | 41.00   | 1,2  |
| 198                                                   | C2Cl2F2     | dichlorodifluoroethylene                               | 27156-03-2  | 7.53055  | 1253.2151 | 250.490 | -58.59  | 39.04   | 2    |
| 199                                                   | C2Cl2F2N2   | dichloro(difluoroamino) acetonitrile                   | 30913-21-4  | 9.64628  | 3177.1900 | 401.155 | -35.15  | 90.33   | 3    |
| 200                                                   | C2Cl2F2O    | dichlorodifluoroacetyl fluoride                        | 354-18-7    | 6.79223  | 1297.3700 | 290.610 | -66.63  | 68.73   | 3    |
| 201                                                   | C2Cl2F3NOS  | S,S-dichloro-N-(trifluoroacetyl)-sulfilimine           | 24433-67-8  | 8.53300  | 2309.0000 | 273.150 | 32.85   | 158.35  | 3    |
| 202                                                   | C2Cl2F3NO2S | (trifluoromethyl)-sulfonylcarbonimidic                 | 51587-33-8  | 7.90024  | 1878.7500 | 241.533 | 30.74   | 156.64  | 3    |
| 203                                                   | C2Cl2F4     | 1,2-dichloro-1,1,2,2-tetrafluoroethane                 | 76-14-2     | 6.93818  | 971.7388  | 235.910 | -92.52  | 145.68  | 1,2  |
| 204                                                   | C2Cl2F4     | 1,1-dichloro-1,2,2,2-tetrafluoroethane                 | 374-07-2    | 6.82593  | 910.5268  | 227.948 | -71.66  | 145.40  | 1,2  |
| 205                                                   | C2Cl2F4     | dichlorotetrafluoroethane                              | 1320-37-2   | 7.54440  | 1198.9766 | 255.120 | -71.91  | 19.71   | 3    |
| 206                                                   | C2Cl2F4O4   | 1,1,2,2-tetrafluoro-2-chloroethyl perchlorate          | 38126-28-2  | 6.63039  | 1088.5100 | 217.420 | -24.15  | 98.22   | 3    |
| 207                                                   | C2Cl2F5NS   | S,S-dichloro-N-(pentafluoroethyl)-sulfilimine          | 10564-48-4  | 8.03100  | 1956.0000 | 273.150 | 5.05    | 130.22  | 3    |
| 208                                                   | C2Cl3F3     | 1,1,2-trichloro-1,2,2-trifluoroethane                  | 76-13-1     | 6.95822  | 1139.7442 | 231.677 | -40.39  | 214.06  | 1,2  |
| 209                                                   | C2Cl3F3     | 1,1,1-trichloro-2,2,2-trifluoroethane                  | 354-58-5    | 7.30951  | 1325.3535 | 253.615 | -43.56  | 68.20   | 1,2  |
| 210                                                   | C2Cl3F3O4   | 1,2,2-trifluoro-1,2-dichloroethyl perchlorate          | 38126-27-1  | 6.14455  | 1405.2300 | 273.150 | -0.15   | 201.16  | 3    |
| 211                                                   | C2Cl3N      | trichloroacetonitrile                                  | 545-06-2    | 7.29775  | 1438.4046 | 239.957 | -16.00  | 109.52  | 1,2  |
| 212                                                   | C2Cl4       | tetrachloroethylene                                    | 127-18-4    | 7.07670  | 1460.3201 | 226.986 | 13.33   | 148.22  | 1,2  |
| 213                                                   | C2Cl4F2     | 1,1,2,2-tetrachloro-1,2-difluoroethane                 | 76-12-0     | 6.95599  | 1269.9665 | 218.785 | -5.56   | 117.71  | 1,2  |
| 214                                                   | C2Cl4F2     | 1,1,1,2-tetrachloro-2,2-difluoroethane                 | 76-11-9     | 6.72750  | 1105.5611 | 195.906 | -2.88   | 115.90  | 1,2  |
| 215                                                   | C2Cl4F2O4   | 1,2-difluoro-1,1,2-trichloroethyl perchlorate          | 38126-29-3  | 6.08003  | 1578.5300 | 273.150 | -0.15   | 271.51  | 3    |
| 216                                                   | C2Cl4F6OS   | pentafluoro(1,1,2,2-tetrachloro-2-fluoroethoxy) sulfur | 762-90-3    | 6.58923  | 1229.9370 | 188.427 | 31.63   | 172.54  | 3    |
| 217                                                   | C2Cl4O      | trichloroacetyl chloride                               | 76-02-8     | 7.24512  | 1488.9557 | 223.167 | 15.25   | 143.28  | 1,2  |
| 218                                                   | C2Cl4O      | tetrachloroethylene oxide                              | 16650-10-5  | 6.27325  | 996.8000  | 182.660 | 6.37    | 139.78  | 3    |
| 219                                                   | C2Cl4Si     | trichloro(chloroethynyl)silane                         | 29442-46-4  | 3.91348  | 374.6700  | 113.290 | 15.31   | 398.81  | 3    |
| 220                                                   | C2Cl5F      | pentachlorofluoroethane                                | 354-56-3    | 6.68077  | 1162.7750 | 168.097 | 36.59   | 164.23  | 1,2  |
| 221                                                   | C2Cl6       | hexachloroethane                                       | 67-72-1     | 6.53008  | 1214.2873 | 147.899 | 71.68   | 214.77  | 1,2  |
| 222                                                   | C2FNO2      | fluorocarbonyl isocyanate                              | 15435-14-0  | 8.69510  | 1750.0000 | 273.150 | -45.73  | 44.27   | 3    |
| 223                                                   | C2F2N4O8    | 1,2-difluoro-1,1,2,2-tetranitroethane                  | 20165-39-3  | 11.50010 | 3280.4000 | 273.150 | 23.85   | 121.21  | 3    |
| 224                                                   | C2F3N       | trifluoroacetonitrile                                  | 353-85-5    | 7.65870  | 925.9256  | 262.594 | -126.10 | -55.77  | 1,2  |
| 225                                                   | C2F3NO      | trifluoromethyl isocyanate                             | 460-49-1    | 7.83810  | 1176.0000 | 273.150 | -101.17 | -20.59  | 3    |
| 226                                                   | C2F3NO      | trifluoronitrosoethylene                               | 2713-04-4   | 8.25150  | 1340.0000 | 273.150 | -88.36  | -8.83   | 3    |
| 227                                                   | C2F3NOS     | trifluoromethane-sulfonyl isocyanate                   | 691-03-2    | 7.74100  | 1458.0000 | 273.150 | -56.86  | 46.65   | 3    |
| 228                                                   | C2F3NO2S    | 2,2,2-trifluoro-N-sulfinylacetamide                    | 26454-68-2  | 8.33824  | 1902.7300 | 273.150 | -13.86  | 95.85   | 3    |
| 229                                                   | C2F3NO2S2   | trifluoromethane-sulfonyl isothiocyanate               | 51587-30-5  | 7.64290  | 1655.0700 | 235.544 | 13.60   | 135.46  | 3    |
| 230                                                   | C2F3NO3S    | trifluoromethane-sulfonyl isocyanate                   | 30227-06-6  | 7.71897  | 1511.1200 | 240.146 | -15.24  | 92.91   | 3    |
| 231                                                   | C2F3NS      | trifluoromethyl thiocyanate                            | 690-24-4    | 8.39500  | 1704.0000 | 273.150 | -47.15  | 53.72   | 3    |
| 232                                                   | C2F3N3O6    | 1,1,2-trifluoro-1,2,2-trinitroethane                   | 20165-38-2  | 10.40010 | 3016.3000 | 273.150 | 39.85   | 144.72  | 3    |
| 233                                                   | C2F4        | tetrafluoroethylene                                    | 116-14-3    | 7.04485  | 717.0359  | 248.497 | -132.30 | 33.30   | 1,2  |
| 234                                                   | C2F4N2      | (difluoroamino)difluoroacetonitrile                    | 5131-88-4   | 7.52120  | 1018.9000 | 251.800 | -95.56  | -17.00  | 3    |
| 235                                                   | C2F4N2O3    | 1,1,2,2-tetrafluoro-1-nitro-2-nitrosoethane            | 679-08-3    | 7.93300  | 1503.0000 | 273.150 | -56.36  | 43.19   | 3    |
| 236                                                   | C2F4N2O4    | 1,1,2,2-tetrafluoro-1,2-dinitroethane                  | 356-16-1    | 7.62106  | 1410.9558 | 239.154 | -30.00  | 78.68   | 1,2  |
| 237                                                   | C2F4N2O6S2  | 1,2-bis(fluoroformyl)-1,2-bis(fluorosulfonyl)          | 19252-50-7  | 9.64693  | 2599.0600 | 273.150 | -0.15   | 128.86  | 3    |
| 238                                                   | C2F4O2S     | trifluoroethylene sulfonyl fluoride                    | 684-10-6    | 7.22780  | 1412.0000 | 273.150 | -46.42  | 75.84   | 3    |
| 239                                                   | C2F4O3      | trifluoromethyl fluoroperoxy-methanoate                | 16118-40-4  | 8.40920  | 1423.8000 | 273.150 | -80.98  | -0.78   | 3    |
| 240                                                   | C2F4O4S     | trifluoroacetyl fluorosulfate                          | 5762-53-8   | 8.67673  | 1949.1480 | 290.293 | -36.39  | 64.43   | 3    |

Table 1 Vapor Pressure – Organic Compounds

| log <sub>10</sub> P = A - B/(T + C) (P - mmHg, T - C) |             |                                                                             |             |         |           |         |         |        |      |
|-------------------------------------------------------|-------------|-----------------------------------------------------------------------------|-------------|---------|-----------|---------|---------|--------|------|
| NO                                                    | FORMULA     | NAME                                                                        | CAS No      | A       | B         | C       | TMIN    | TMAX   | code |
| 241                                                   | C2F4S2      | 2,2,4,4-tetrafluoro-1,3-dithietane                                          | 1717-50-6   | 7.64010 | 1524.0000 | 273.150 | -43.64  | 68.69  | 3    |
| 242                                                   | C2F5I       | pentafluoro-iodoethane                                                      | 354-64-3    | 4.16419 | 158.6582  | 111.176 | -61.03  | 50.33  | 1,2  |
| 243                                                   | C2F5NO      | pentafluoronitroso-ethane                                                   | 354-72-3    | 7.69000 | 1094.0000 | 273.150 | -109.62 | -30.48 | 3    |
| 244                                                   | C2F5NOS     | S,S-di fluoro-N-(trifluoroacetyl)-sulfilimine                               | 24433-65-6  | 8.26500 | 1798.0000 | 273.150 | -33.15  | 80.57  | 3    |
| 245                                                   | C2F5NOS     | 1,1,1-trifluoro-N-(fluoroformyl)-methanesulfinimidyl fluoride               | 28103-61-9  | 8.72000 | 2033.0000 | 273.150 | -9.81   | 93.94  | 3    |
| 246                                                   | C2F5NOS     | 1,1,2,2,2-pentafluoro-N-sulfinylethanamine                                  | 10564-50-8  | 7.64300 | 1516.0000 | 273.150 | -44.94  | 66.67  | 3    |
| 247                                                   | C2F5NO4S    | (fluorosulfonyl)-(trifluoromethoxy)-carbamoylefluoride                      | 19252-49-4  | 7.23080 | 1582.3000 | 273.150 | -19.20  | 117.64 | 3    |
| 248                                                   | C2F5N3O3    | fluoro(1,1,2,2-tetrafluoro-2-nitroethyl)-2-oxidediimide                     | 755-68-0    | 6.84935 | 1115.5000 | 205.310 | -16.15  | 98.85  | 3    |
| 249                                                   | C2F6        | hexafluoroethane                                                            | 76-16-4     | 7.16111 | 800.2085  | 265.102 | -135.22 | 19.88  | 1,2  |
| 250                                                   | C2F6HgS2    | bis(trifluoromethyl)-thio)mercury                                           | 900001-62-9 | 8.83101 | 2760.5900 | 283.850 | 68.67   | 204.82 | 3    |
| 251                                                   | C2F6IN      | N-iodo-bis(trifluoromethyl)-amine                                           | 5764-87-4   | 7.40010 | 1490.0000 | 273.150 | -40.34  | 80.08  | 3    |
| 252                                                   | C2F6N2      | bis(trifluoromethyl)diazene                                                 | 372-63-4    | 7.82296 | 1196.0000 | 273.150 | -97.86  | -15.45 | 1,2  |
| 253                                                   | C2F6N2O2    | 1,1,1-trifluoro-N-(nitrosooxy)-N-(trifluoromethyl)-methanamine              | 359-75-1    | 7.71600 | 1399.0000 | 273.150 | -64.84  | 35.40  | 3    |
| 254                                                   | C2F6N2O2    | N-Nitroso-O,N-bis(trifluoromethyl)-hydroxylamine                            | 367-54-4    | 7.57600 | 1329.1000 | 273.150 | -71.04  | 29.32  | 3    |
| 255                                                   | C2F6OS      | pentafluoroethyl sulfinyl fluoride                                          | 20621-31-2  | 7.12778 | 1096.9560 | 237.429 | -58.42  | 40.57  | 3    |
| 256                                                   | C2F6OS      | bis(trifluoromethyl) sulfoxide                                              | 30341-37-8  | 7.60974 | 1458.7720 | 271.935 | -51.23  | 57.52  | 3    |
| 257                                                   | C2F6OS2     | methanesulfinothioic acid, trifluoro, S-(trifluoromethyl)                   | 63548-54-9  | 7.54620 | 1605.9800 | 273.150 | -27.82  | 94.83  | 3    |
| 258                                                   | C2F6OS2     | S-trifluoromethyl-(trifluoromethyl)-thiosulfinate                           | 63548-94-7  | 7.54620 | 1605.9800 | 273.150 | -27.82  | 94.83  | 3    |
| 259                                                   | C2F6O3      | bis(trifluoromethyl)-trioxide                                               | 1718-18-9   | 8.71572 | 1712.4300 | 310.560 | -88.62  | -1.11  | 3    |
| 260                                                   | C2F6O3S     | trifluoromethane sulfonic acid, trifluoromethyl ester                       | 3582-05-6   | 6.62022 | 867.0370  | 210.579 | -56.31  | 41.59  | 3    |
| 261                                                   | C2F6O5S     | peroxysulfuric acid, bis(trifluoromethyl) ester                             | 41765-14-4  | 7.07606 | 1147.0430 | 227.257 | -38.48  | 67.29  | 3    |
| 262                                                   | C2F6O6S2    | tetrafluoroethylene glycol, bis(fluorosulfate)                              | 1479-53-4   | 6.30118 | 893.0940  | 157.959 | 10.51   | 128.35 | 3    |
| 263                                                   | C2F6S       | bis(trifluoromethyl)sulfide                                                 | 371-78-8    | 7.81728 | 1239.3000 | 273.150 | -91.36  | -5.73  | 1,2  |
| 264                                                   | C2F6S2      | bis(trifluoromethyl) disulfide                                              | 372-64-5    | 7.76414 | 1502.8424 | 273.150 | -50.97  | 54.82  | 1,2  |
| 265                                                   | C2F7N       | heptafluoroethanamine                                                       | 354-80-3    | 7.50962 | 1088.0000 | 273.150 | -106.01 | -17.35 | 1,2  |
| 266                                                   | C2F7N       | perfluorodimethylamine                                                      | 359-62-6    | 7.00000 | 972.7000  | 273.150 | -111.03 | -18.39 | 3    |
| 267                                                   | C2F7NO3S    | tetrafluoro-2-(difluoroamino)ethyl fluorosulfonate                          | 4188-34-5   | 7.87510 | 1625.0000 | 273.150 | -36.79  | 73.09  | 3    |
| 268                                                   | C2F8OS      | difluoro-oxo-bis(trifluoromethyl)-sulfur                                    | 33716-15-3  | 7.43124 | 1542.8090 | 312.746 | -72.85  | 50.32  | 3    |
| 269                                                   | C2F8OS      | pentafluoro(trifluoro-acetyl)                                               | 82390-51-0  | 7.69810 | 1391.1000 | 273.150 | -65.46  | 34.87  | 3    |
| 270                                                   | C2F8O3S     | pentafluoro(trifluoro-ethaneperoxoato) sulfur                               | 60672-61-9  | 7.47470 | 1465.3000 | 273.150 | -46.84  | 68.18  | 3    |
| 271                                                   | C2F8S       | pentafluoro(trifluoro-vinyl) sulfur                                         | 1186-51-2   | 7.36010 | 1310.0000 | 273.150 | -74.15  | 40.38  | 3    |
| 272                                                   | C2F8S       | difluorobis(trifluoro-methyl)sulfur                                         | 30341-38-9  | 8.00010 | 1507.0000 | 273.150 | -57.87  | 39.62  | 3    |
| 273                                                   | C2F10OS     | pentafluoro(penta-fluoroethoxy)sulfur                                       | 900001-56-6 | 6.86143 | 938.9100  | 220.880 | -60.70  | 34.29  | 3    |
| 274                                                   | C2F10O2S    | tetrafluorobis(tri-fluoromethoxy)sulfur                                     | 2004-38-8   | 6.94478 | 1030.5340 | 224.382 | -51.03  | 49.48  | 3    |
| 275                                                   | C2F10O3S    | (trifluoromethoxy)-[(trifluoromethyl)-dioxy] sulfur tetrafluoride           | 41938-43-6  | 7.25728 | 1198.2740 | 229.924 | -38.42  | 64.10  | 3    |
| 276                                                   | C2F10O3S2   | pentafluoro[1,2,2,2-tetrafluoro-1-[(fluorosulfonyl)oxy]-ethyl sulfur        | 68010-32-2  | 7.98010 | 1819.0000 | 273.150 | -12.55  | 105.95 | 3    |
| 277                                                   | C2F10S      | trans-tetrafluoro-bis(trifluoromethyl) sulfur                               | 42179-02-2  | 7.02700 | 1217.6000 | 273.150 | -71.13  | 43.51  | 3    |
| 278                                                   | C2F11NS     | [bis(trifluoromethyl)-amino]sulfur pentafluoride                            | 13888-13-6  | 7.87010 | 1530.0000 | 273.150 | -50.45  | 53.20  | 3    |
| 279                                                   | C2F12S2     | 1,1,1,1,2,2,3,3,3,4,4-dodecafluoro-1,1,1,1,3,3,3,3-octahydro-1,3-dithietane | 42060-66-2  | 8.29010 | 1857.0000 | 273.150 | -18.42  | 90.38  | 3    |
| 280                                                   | C2F14S2     | octafluorobis(trifluoromethyl)disulfide                                     | 1580-11-6   | 7.82010 | 1792.0000 | 273.150 | -10.40  | 113.20 | 3    |
| 281                                                   | C2HAsF6     | bis(trifluoromethyl)-arsine                                                 | 371-74-4    | 6.45303 | 852.7400  | 217.880 | -66.15  | 42.80  | 3    |
| 282                                                   | C2HBr       | bromoacetylene                                                              | 593-61-3    | 7.02850 | 1016.5185 | 240.331 | -71.71  | 23.93  | 1,2  |
| 283                                                   | C2HBrClF3   | halothane                                                                   | 151-67-7    | 6.55116 | 951.7304  | 209.103 | -50.00  | 73.37  | 1,2  |
| 284                                                   | C2HBrClF3   | 1-bromo-2-chloro-1,1,2-trifluoroethane                                      | 354-06-3    | 6.72382 | 1017.6702 | 212.311 | -34.52  | 75.01  | 1,2  |
| 285                                                   | C2HBrClF3   | 2-bromo-1-chloro-1,1,2-trifluoroethane                                      | 354-20-1    | 7.55110 | 1516.2000 | 273.150 | -41.71  | 73.87  | 3    |
| 286                                                   | C2HBr2ClF2  | 1,2-dibromo-2-chloro-1,1-difluoroethane                                     | 421-36-3    | 7.64625 | 1864.0000 | 273.150 | 7.31    | 144.37 | 3    |
| 287                                                   | C2HBr2Cl2F  | 1,2-dibromo-1,2-dichlorofluoroethane                                        | 421-33-0    | 7.84910 | 2169.2000 | 273.150 | 43.56   | 191.62 | 3    |
| 288                                                   | C2HBr2FO2   | dibromofluoroacetic acid                                                    | 353-99-1    | 8.09896 | 2029.9000 | 191.160 | 94.78   | 221.66 | 3    |
| 289                                                   | C2HBr2F3    | 1,1-dibromo-2,2,2-trifluoroethane                                           | 354-30-3    | 7.53816 | 1625.5548 | 273.150 | -24.52  | 100.00 | 2    |
| 290                                                   | C2HBr2F3    | 1,2-dibromo-1,1,2-trifluoroethane                                           | 354-04-1    | 7.67574 | 1673.4308 | 273.150 | -22.48  | 99.43  | 1,2  |
| 291                                                   | C2HBr3O     | tribromoacetaldehyde                                                        | 115-17-3    | 7.85566 | 2100.2287 | 248.170 | 58.18   | 201.19 | 2    |
| 292                                                   | C2HCl       | chloroacetylene                                                             | 593-63-5    | 4.62145 | 415.8216  | 227.312 | -112.49 | 61.53  | 2    |
| 293                                                   | C2HClF2     | 2-chloro-1,1-difluoroethylene                                               | 359-10-4    | 7.10734 | 969.9059  | 248.080 | -89.27  | 127.40 | 1,2  |
| 294                                                   | C2HClF4     | 1-chloro-1,1,2,2-tetrafluoroethane                                          | 354-25-6    | 7.16447 | 1020.7868 | 250.037 | -84.45  | 126.85 | 1,2  |
| 295                                                   | C2HClF4     | 2-chloro-1,1,1,2-tetrafluoroethane                                          | 2837-89-0   | 6.80539 | 859.5544  | 230.978 | -82.92  | 122.28 | 1,2  |
| 296                                                   | C2HClF4     | chlorotetrafluoroethane                                                     | 63938-10-3  | 7.58740 | 1154.4338 | 259.358 | -84.11  | 2.68   | 3    |
| 297                                                   | C2HClF8S    | (1,1,2-trifluoro-2-chloroethyl)sulfur pentafluoride                         | 22756-13-4  | 7.67610 | 1580.0000 | 273.150 | -36.48  | 78.41  | 3    |
| 298                                                   | C2HCl2F3    | 1,1-dichloro-1,2,2-trifluoroethane                                          | 812-04-4    | 7.04651 | 1185.4209 | 248.280 | -52.23  | 58.45  | 2    |
| 299                                                   | C2HCl2F3    | 1,2-dichloro-1,1,2-trifluoroethane                                          | 354-23-4    | 7.21220 | 1187.6480 | 246.346 | -55.17  | 188.45 | 1,2  |
| 300                                                   | C2HCl2F3    | 2,2-dichloro-1,1,1-trifluoroethane                                          | 306-83-2    | 7.10698 | 1118.9704 | 236.952 | -53.72  | 183.68 | 1,2  |
| 301                                                   | C2HCl3      | trichloroethylene                                                           | 79-01-6     | 6.87550 | 1156.9806 | 202.580 | -5.66   | 110.65 | 1,2  |
| 302                                                   | C2HCl3F2    | 1,1,1-trichloro-2,2-difluoroethane                                          | 354-12-1    | 7.00964 | 1246.6926 | 227.506 | -20.06  | 98.19  | 3    |
| 303                                                   | C2HCl3F2    | 1,1,2-trichloro-1,2-difluoroethane                                          | 354-15-4    | 6.98456 | 1238.2912 | 227.304 | -20.39  | 98.33  | 3    |
| 304                                                   | C2HCl3F2    | 1,2,2-trichloro-1,1-difluoroethane                                          | 354-21-2    | 7.07338 | 1254.3627 | 227.337 | -20.80  | 95.06  | 1,2  |
| 305                                                   | C2HCl3F2O3S | fluorosulfuric acid, 2-fluoro-1,1,2-trichloroethyl ester                    | 42087-88-7  | 7.43010 | 1911.0000 | 273.150 | 24.05   | 176.68 | 3    |
| 306                                                   | C2HCl3O     | dichloroacetyl chloride                                                     | 79-36-7     | 7.38739 | 1476.0086 | 219.973 | 11.11   | 132.99 | 1,2  |
| 307                                                   | C2HCl3O     | trichloroacetaldehyde                                                       | 75-87-6     | 7.52332 | 1647.7201 | 257.070 | -4.48   | 122.46 | 1,2  |
| 308                                                   | C2HCl3O2    | trichloroacetic acid                                                        | 76-03-9     | 7.49368 | 1707.8546 | 174.187 | 83.80   | 224.00 | 1,2  |
| 309                                                   | C2HCl4F     | 1,1,1,2-tetrachloro-2-fluoroethane                                          | 354-11-0    | 6.77224 | 1129.6939 | 174.559 | 21.15   | 141.82 | 2    |
| 310                                                   | C2HCl4F     | 1,1,2,2-tetrachloro-1-fluoroethane                                          | 354-14-3    | 6.72063 | 1118.6365 | 174.776 | 20.77   | 141.40 | 1,2  |
| 311                                                   | C2HCl4FS    | (dichloromethyl)-(dichlorofluoro-methyl) sulfide                            | 900001-57-2 | 8.82661 | 2507.3350 | 273.150 | 47.21   | 171.04 | 3    |
| 312                                                   | C2HCl4FS    | (dichloromethyl)-(fluorodichloro-methyl)sulfide                             | 900001-57-7 | 8.59377 | 2427.1900 | 273.150 | 46.48   | 175.34 | 3    |
| 313                                                   | C2HCl5      | pentachloroethane                                                           | 76-01-7     | 6.85378 | 1477.3553 | 209.802 | 42.57   | 192.53 | 1,2  |
| 314                                                   | C2HF3       | trifluoroethene                                                             | 359-11-5    | 6.82844 | 1840.7531 | 371.413 | -130.11 | -33.45 | 1,2  |
| 315                                                   | C2HF3O2     | trifluoroacetic acid                                                        | 76-05-1     | 7.50596 | 1399.7554 | 230.840 | -15.69  | 218.10 | 1,2  |
| 316                                                   | C2HF5       | pentafluoroethane                                                           | 354-33-6    | 6.99546 | 810.9068  | 245.168 | -109.91 | 66.02  | 1,2  |
| 317                                                   | C2HF5O      | trifluoromethyl difluoromethyl ether                                        | 3822-68-2   | 6.98021 | 842.1762  | 239.989 | -99.16  | -18.27 | 1,2  |
| 318                                                   | C2HF6N      | bis(trifluoromethyl)-amine                                                  | 371-77-7    | 7.89610 | 1335.0000 | 273.150 | -79.56  | 10.03  | 3    |
| 319                                                   | C2HF6OP     | bis(trifluoromethyl)-phosphinous acid                                       | 359-65-9    | 9.81350 | 1998.3000 | 250.400 | -40.15  | 50.93  | 3    |
| 320                                                   | C2HF6OPS    | bis(trifluoromethyl)-phosphinothioic acid                                   | 35814-49-4  | 8.05330 | 2001.0000 | 273.150 | 9.85    | 137.61 | 3    |

Table 1 Vapor Pressure – Organic Compounds

| log <sub>10</sub> P = A - B/(T + C) (P - mmHg, T - C) |             |                                                     |             |          |           |         |         |        |      |
|-------------------------------------------------------|-------------|-----------------------------------------------------|-------------|----------|-----------|---------|---------|--------|------|
| NO                                                    | FORMULA     | NAME                                                | CAS No      | A        | B         | C       | TMIN    | TMAX   | code |
| 321                                                   | C2HF6PS2    | thiophosphinous acid, bis(trifluoromethyl)-ester    | 1486-19-7   | 7.85546  | 1561.9600 | 260.970 | -56.15  | 73.24  | 3    |
| 322                                                   | C2HF6PS2    | phosphinodithioic acid, bis(trifluoromethyl)-ester  | 18799-75-2  | 8.90300  | 2188.0000 | 273.150 | -0.15   | 109.29 | 3    |
| 323                                                   | C2HF7S      | pentafluoro(difluoro-ethenyl) sulfur                | 58636-78-5  | 7.69010  | 1447.6000 | 273.150 | -56.77  | 47.95  | 3    |
| 324                                                   | C2HF9S      | pentafluoro(1,2,2,2-tetrafluoroethyl) sulfur        | 63011-80-3  | 7.76010  | 1463.0000 | 273.150 | -56.73  | 46.40  | 3    |
| 325                                                   | C2HI        | iodoacetylene                                       | 14545-08-5  | 7.09390  | 1176.2780 | 247.196 | -54.17  | 53.48  | 3    |
| 326                                                   | C2H2        | acetylene                                           | 74-86-2     | 8.53026  | 1011.5834 | 262.859 | -128.52 | -4.85  | 1,2  |
| 327                                                   | C2H2AsCl3   | dichloro-cis-(2-chlorovinyl)arsine                  | 34461-56-8  | 5.48788  | 785.0900  | 115.650 | 59.29   | 224.80 | 3    |
| 328                                                   | C2H2AsCl3   | dichloro-trans-(2-chlorovinyl)arsine                | 50361-05-2  | 8.65300  | 2648.0000 | 273.150 | 72.86   | 210.84 | 3    |
| 329                                                   | C2H2BrClF2  | 2-bromo-1-chloro-1,1-difluoroethane                 | 421-01-2    | 7.50825  | 1580.5000 | 273.150 | -30.30  | 92.16  | 1,2  |
| 330                                                   | C2H2BrCl2F  | 1-bromo-1,2-dichloro-2-fluoroethane                 | 430-88-6    | 7.67110  | 1907.4000 | 273.150 | 12.77   | 151.73 | 3    |
| 331                                                   | C2H2BrF3    | 2-bromo-1,1,1-trifluoroethane                       | 421-06-7    | 7.43137  | 1361.3000 | 273.150 | -61.48  | 47.51  | 1,2  |
| 332                                                   | C2H2Br2     | 1,1-dibromoethene                                   | 593-92-0    | 7.12267  | 1368.1621 | 230.488 | -7.03   | 116.69 | 1,2  |
| 333                                                   | C2H2Br2     | cis-1,2-dibromoethene                               | 590-11-4    | 7.24768  | 1466.5340 | 221.486 | 13.25   | 139.21 | 1,2  |
| 334                                                   | C2H2Br2     | trans-1,2-dibromoethene                             | 590-12-5    | 7.18770  | 1696.5839 | 273.168 | -4.00   | 150.36 | 2    |
| 335                                                   | C2H2Br2     | 1,2-dibromoethylene; (cis+trans)                    | 540-49-8    | 7.11164  | 1426.0862 | 225.220 | 8.12    | 137.67 | 1,2  |
| 336                                                   | C2H2Br2Cl2  | 1,2-dibromo-1,1-dichloroethane                      | 75-81-0     | 6.00415  | 1261.2479 | 201.854 | 50.19   | 245.03 | 1,2  |
| 337                                                   | C2H2Br2Cl2  | 1,2-dibromo-1,2-dichloroethane                      | 683-68-1    | 8.44170  | 2729.0938 | 295.766 | 70.96   | 223.09 | 1,2  |
| 338                                                   | C2H2Br2F2   | 1,2-dibromo-1,1-difluoroethane                      | 75-82-1     | 7.07059  | 1352.0368 | 230.349 | -7.63   | 117.53 | 1,2  |
| 339                                                   | C2H2Br4     | 1,1,2,2-tetrabromoethane                            | 79-27-6     | 7.58424  | 2031.5098 | 188.371 | 120.17  | 273.08 | 1,2  |
| 340                                                   | C2H2Br4     | 1,1,1,2-tetrabromoethane                            | 630-16-0    | 8.38512  | 2303.6713 | 186.564 | 125.37  | 256.17 | 3    |
| 341                                                   | C2H2ClFO    | fluoroacetyl chloride                               | 359-06-8    | 8.49540  | 1916.6000 | 273.150 | -17.45  | 87.55  | 3    |
| 342                                                   | C2H2ClFO    | chloroacetyl fluoride                               | 359-14-8    | 8.60300  | 1982.5000 | 273.150 | -12.40  | 92.55  | 3    |
| 343                                                   | C2H2ClF3    | 1-chloro-1,1,2-trifluoroethane                      | 421-04-5    | 7.13323  | 1075.3095 | 238.240 | -62.92  | 33.89  | 2    |
| 344                                                   | C2H2ClF3    | 1-chloro-1,2,2-trifluoroethane                      | 431-07-2    | 7.16866  | 1274.7465 | 248.963 | -59.18  | 35.26  | 2    |
| 345                                                   | C2H2ClF3    | 2-chloro-1,1,1-trifluoroethane                      | 75-88-7     | 7.29037  | 1221.1962 | 269.993 | -75.86  | 27.24  | 1,2  |
| 346                                                   | C2H2ClF3O2S | 2,2,2-trifluoroethanesulfonyl chloride              | 1648-99-3   | 7.92010  | 1881.0000 | 273.150 | -1.33   | 123.83 | 3    |
| 347                                                   | C2H2ClF7S   | pentafluoro(2-chloro-2,2-difluoroethyl) sulfur      | 68010-35-5  | 7.88010  | 1719.9000 | 273.150 | -23.17  | 92.92  | 3    |
| 348                                                   | C2H2Cl2     | 1,1-dichloroethylene                                | 75-35-4     | 7.42876  | 1265.8783 | 247.291 | -50.38  | 51.46  | 1,2  |
| 349                                                   | C2H2Cl2     | cis-1,2-dichloroethylene                            | 156-59-2    | 7.43392  | 1364.0900 | 239.245 | -27.23  | 230.85 | 1,2  |
| 350                                                   | C2H2Cl2     | trans-1,2-dichloroethylene                          | 156-60-5    | 7.40724  | 1315.6216 | 242.804 | -49.80  | 243.35 | 1,2  |
| 351                                                   | C2H2Cl2     | 1,2-dichloroethylene, cis and trans                 | 540-59-0    | 7.57331  | 1391.1237 | 240.774 | -29.14  | 76.00  | 3    |
| 352                                                   | C2H2Cl2     | dichloroethylene                                    | 25323-30-2  | 7.46616  | 1352.9841 | 239.384 | -57.00  | 76.41  | 3    |
| 353                                                   | C2H2Cl2F2   | 1,1-dichloro-1,2-difluoroethane                     | 1842-05-3   | 9.14022  | 1462.8208 | 215.741 | -36.04  | 29.77  | 3    |
| 354                                                   | C2H2Cl2F2   | 1,1-dichloro-2,2-difluoroethane                     | 471-43-2    | 10.71955 | 2027.8056 | 240.732 | -32.10  | 28.29  | 3    |
| 355                                                   | C2H2Cl2F2   | 1,2-dichloro-1,1-difluoroethane                     | 1649-08-7   | 7.10334  | 1142.7349 | 224.278 | -37.05  | 67.51  | 1,2  |
| 356                                                   | C2H2Cl2F2   | 1,2-dichloro-1,2-difluoroethane                     | 431-06-1    | 6.91184  | 1016.9190 | 205.473 | -33.46  | 67.16  | 1,2  |
| 357                                                   | C2H2Cl2F2   | dichlorodifluoroethane                              | 25915-78-0  | 9.90175  | 1832.5481 | 243.054 | -37.19  | 29.65  | 3    |
| 358                                                   | C2H2Cl2O    | chloroacetyl chloride                               | 79-04-9     | 7.30233  | 1420.7980 | 215.487 | 9.95    | 129.53 | 1,2  |
| 359                                                   | C2H2Cl2O    | dichloroacetaldehyde                                | 79-02-7     | 7.24047  | 1377.4803 | 225.411 | -4.68   | 113.98 | 1,2  |
| 360                                                   | C2H2Cl2O2   | dichloroacetic acid                                 | 79-43-6     | 7.64586  | 1868.4350 | 198.063 | 83.08   | 220.49 | 1,2  |
| 361                                                   | C2H2Cl3F    | 1,1,1-trichloro-2-fluoroethane                      | 2366-36-1   | 7.09722  | 1396.9319 | 237.758 | -8.65   | 119.02 | 2    |
| 362                                                   | C2H2Cl3F    | 1,1,2-trichloro-1-fluoroethane                      | 811-95-0    | 6.88577  | 1172.9403 | 205.022 | -5.74   | 111.86 | 1,2  |
| 363                                                   | C2H2Cl3F    | 1,1,2-trichloro-2-fluoroethane                      | 359-28-4    | 7.58810  | 1619.1502 | 241.516 | 4.25    | 125.95 | 1,2  |
| 364                                                   | C2H2Cl4     | 1,1,1,2-tetrachloroethane                           | 630-20-6    | 6.77165  | 1402.2168 | 222.340 | 20.61   | 168.27 | 1,2  |
| 365                                                   | C2H2Cl4     | 1,1,2,2-tetrachloroethane                           | 79-34-5     | 6.87194  | 1369.9004 | 197.086 | 36.21   | 174.15 | 1,2  |
| 366                                                   | C2H2Cl4S    | bis(dichloromethyl) sulfide                         | 51174-93-7  | 10.14900 | 4255.9670 | 396.563 | 68.62   | 214.30 | 3    |
| 367                                                   | C2H2FN      | fluoroacetonitrile                                  | 503-20-8    | 8.53174  | 1992.8000 | 273.150 | -8.56   | 99.34  | 1,2  |
| 368                                                   | C2H2F2      | 1,1-difluoroethylene                                | 75-38-7     | 6.89769  | 695.5101  | 256.297 | -144.00 | 29.65  | 1,2  |
| 369                                                   | C2H2F4      | 1,1,1,2-tetrafluoroethane                           | 811-97-2    | 7.04073  | 906.7124  | 244.514 | -101.15 | 101.06 | 1,2  |
| 370                                                   | C2H2F4      | 1,1,2,2-tetrafluoroethane                           | 359-35-3    | 7.27202  | 1020.1046 | 255.456 | -92.81  | 118.65 | 1,2  |
| 371                                                   | C2H2F4O     | tetrafluorodimethyl ether                           | 1691-17-4   | 7.93422  | 1308.8268 | 254.299 | -65.55  | 23.27  | 1,2  |
| 372                                                   | C2H2F4O2S   | fluorosulfuric acid, 2,2,2-trifluoroethyl ester     | 75988-14-6  | 8.18010  | 1755.0000 | 273.150 | -28.72  | 77.97  | 3    |
| 373                                                   | C2H2F6P2    | 1,2-bis(trifluoromethyl)-diphosphine                | 462-57-7    | 7.15120  | 1285.0300 | 232.770 | -40.15  | 90.97  | 3    |
| 374                                                   | C2H2F8S     | tetrafluoro(fluoro-methyl)(trifluoro-methyl) sulfur | 56919-36-9  | 7.20010  | 1425.0000 | 273.150 | -43.31  | 81.48  | 3    |
| 375                                                   | C2H2F8S     | pentafluoro(2,2,2-trifluoroethyl)sulfur             | 65227-29-4  | 7.77010  | 1530.8000 | 273.150 | -47.04  | 60.48  | 3    |
| 376                                                   | C2H2I2      | cis-1,2-diiodoethene                                | 590-26-1    | 7.48298  | 1791.5709 | 208.247 | 60.85   | 208.29 | 3    |
| 377                                                   | C2H2I2      | trans-1,2-diiodoethene                              | 590-27-2    | 7.41224  | 1743.5390 | 203.724 | 68.18   | 208.42 | 3    |
| 378                                                   | C2H2I4      | 1,1,1,2-tetraiodoethane                             | ---         | 6.20184  | 1839.4417 | 161.172 | 192.44  | 447.92 | 3    |
| 379                                                   | C2H2I4      | 1,1,2,2-tetraiodoethane                             | ---         | 6.28755  | 1882.5285 | 159.885 | 196.15  | 446.27 | 3    |
| 380                                                   | C2H2O       | ketene                                              | 463-51-4    | 7.14290  | 893.7123  | 259.188 | -113.70 | -33.56 | 1,2  |
| 381                                                   | C2H2O4      | oxalic acid                                         | 144-62-7    | 6.10678  | 1659.1509 | 149.212 | 175.68  | 418.03 | 1,2  |
| 382                                                   | C2H3Br      | vinyl bromide                                       | 593-60-2    | 7.40485  | 1204.6473 | 250.427 | -62.34  | 34.83  | 1,2  |
| 383                                                   | C2H3BrClF   | 2-bromo-2-chloro-1-fluoroethane                     | 430-54-6    | 7.58510  | 1672.5000 | 273.150 | -19.17  | 106.68 | 3    |
| 384                                                   | C2H3BrO     | acetyl bromide                                      | 506-96-7    | 5.58620  | 641.7985  | 161.230 | -21.29  | 105.70 | 1,2  |
| 385                                                   | C2H3BrSi    | (bromoethynyl)silane                                | 68196-78-1  | 8.19400  | 1763.0000 | 273.150 | -28.08  | 78.60  | 3    |
| 386                                                   | C2H3Br2F    | 1,2-dibromo-1-fluoroethane                          | 358-97-4    | 7.42882  | 1561.8952 | 219.574 | 23.38   | 158.10 | 1,2  |
| 387                                                   | C2H3Br3     | 1,1,1-tribromoethane                                | 2311-14-0   | 6.95466  | 1603.2336 | 207.970 | 61.27   | 216.97 | 2    |
| 388                                                   | C2H3Br3     | 1,1,2-tribromoethane                                | 78-74-0     | 7.42274  | 1782.6680 | 203.542 | 74.01   | 216.81 | 1,2  |
| 389                                                   | C2H3Cl      | vinyl chloride                                      | 75-01-4     | 6.90863  | 910.2860  | 239.800 | -85.74  | 4.46   | 1,2  |
| 390                                                   | C2H3ClF2    | 1-chloro-1,1-difluoroethane                         | 75-68-3     | 7.07437  | 968.4959  | 240.899 | -81.46  | 137.11 | 1,2  |
| 391                                                   | C2H3ClF2    | 1-chloro-1,2-difluoroethane                         | 338-64-7    | 6.24457  | 972.1871  | 253.968 | -68.60  | 63.46  | 1,2  |
| 392                                                   | C2H3ClF2    | 2-chloro-1,1-difluoroethane                         | 338-65-8    | 7.29712  | 1286.5162 | 256.210 | -51.91  | 56.41  | 1,2  |
| 393                                                   | C2H3ClF2    | chlorodifluoroethane                                | 25497-29-4  | 7.08932  | 1128.7775 | 253.968 | -68.60  | 34.91  | 3    |
| 394                                                   | C2H3ClF6OS  | pentafluoro(2-fluoro-2-chloroethoxy) sulfur         | 900001-58-3 | 6.76698  | 1114.5920 | 197.264 | -3.99   | 113.63 | 3    |
| 395                                                   | C2H3ClGe    | (chloroethynyl)-germane                             | 68196-76-9  | 8.23200  | 1761.0000 | 273.150 | -29.65  | 75.55  | 3    |
| 396                                                   | C2H3ClO     | acetyl chloride                                     | 75-36-5     | 7.28361  | 1259.9327 | 234.317 | -33.81  | 72.85  | 1,2  |
| 397                                                   | C2H3ClO     | chloroacetaldehyde                                  | 107-20-0    | 7.26359  | 1338.8586 | 220.432 | -6.68   | 107.58 | 1,2  |
| 398                                                   | C2H3ClO2    | chloroacetic acid                                   | 79-11-8     | 7.54242  | 1714.4498 | 178.731 | 78.40   | 214.84 | 1,2  |
| 399                                                   | C2H3ClO2    | methyl chloroformate                                | 79-22-1     | 7.46446  | 1367.8815 | 227.876 | -16.28  | 91.93  | 1,2  |
| 400                                                   | C2H3ClSi    | (chloroethynyl)silane                               | 58468-21-6  | 8.26300  | 1645.0000 | 273.150 | -46.66  | 50.60  | 3    |

Table 1 Vapor Pressure – Organic Compounds

| log <sub>10</sub> P = A - B/(T + C) (P - mmHg, T - °C) |            |                                                   |             |          |           |         |         |        |      |
|--------------------------------------------------------|------------|---------------------------------------------------|-------------|----------|-----------|---------|---------|--------|------|
| NO                                                     | FORMULA    | NAME                                              | CAS No      | A        | B         | C       | TMIN    | TMAX   | code |
| 401                                                    | C2H3Cl2F   | 1,1-dichloro-1-fluoroethane                       | 1717-00-6   | 7.09864  | 1149.7160 | 240.735 | -52.21  | 204.35 | 1,2  |
| 402                                                    | C2H3Cl2F   | 1,1-dichloro-2-fluoroethane                       | 430-53-5    | 7.58024  | 1375.5860 | 241.358 | -32.31  | 73.44  | 2    |
| 403                                                    | C2H3Cl2F   | 1,2-dichloro-1-fluoroethane                       | 430-57-9    | 7.01625  | 1271.8248 | 231.693 | -20.29  | 99.99  | 1,2  |
| 404                                                    | C2H3Cl3    | 1,1,1-trichloroethane                             | 71-55-6     | 7.00849  | 1253.4670 | 229.624 | -30.05  | 271.85 | 1,2  |
| 405                                                    | C2H3Cl3    | 1,1,2-trichloroethane                             | 79-00-5     | 7.15173  | 1459.5820 | 228.099 | 9.16    | 139.83 | 1,2  |
| 406                                                    | C2H3Cl3Si  | trichlorovinylsilane                              | 75-94-5     | 7.06319  | 1402.9767 | 242.600 | -11.21  | 118.87 | 1,2  |
| 407                                                    | C2H3Cl5Si  | (1,2-dichloroethyl)-trichlorosilane               | 684-00-4    | 7.93559  | 2227.0000 | 260.000 | 60.85   | 208.47 | 3    |
| 408                                                    | C2H3F      | vinyl fluoride                                    | 75-02-5     | 7.24384  | 857.1623  | 268.611 | -131.33 | 54.65  | 1,2  |
| 409                                                    | C2H3FO     | acetyl fluoride                                   | 557-99-3    | 5.08638  | 597.8901  | 250.282 | -103.97 | 63.65  | 1,2  |
| 410                                                    | C2H3FO2    | fluoroacetic acid                                 | 144-49-0    | 9.13653  | 2775.1000 | 275.610 | 65.46   | 190.43 | 1,2  |
| 411                                                    | C2H3F3     | 1,1,1-trifluoroethane                             | 420-46-2    | 7.11963  | 867.8636  | 251.982 | -111.33 | 72.71  | 1,2  |
| 412                                                    | C2H3F3     | 1,1,2-trifluoroethane                             | 430-66-0    | 6.75947  | 842.3240  | 212.319 | -84.00  | 23.33  | 1,2  |
| 413                                                    | C2H3F3N2   | 1,1,1-trifluoroazomethane                         | 690-21-1    | 7.87600  | 1377.0000 | 273.150 | -72.89  | 20.19  | 3    |
| 414                                                    | C2H3F3O    | methyl trifluoromethyl ether                      | 421-14-7    | 7.78956  | 1173.9579 | 262.736 | -89.83  | -7.96  | 1,2  |
| 415                                                    | C2H3F3O    | 2,2,2-trifluoroethanol                            | 75-89-8     | 7.66460  | 1328.0818 | 203.622 | -4.35   | 92.64  | 1,2  |
| 416                                                    | C2H3F3O2Si | silyl(trifluoroacetate)                           | 6876-44-4   | 8.16800  | 1604.0000 | 273.150 | -49.38  | 48.54  | 3    |
| 417                                                    | C2H3F3Se   | methyl(trifluoro-methyl) selenide                 | 1544-45-2   | 7.66010  | 1448.0000 | 273.150 | -64.15  | 50.19  | 3    |
| 418                                                    | C2H3F5O3S  | pentafluorosulfur peroxyacetate                   | 60672-60-8  | 7.90540  | 1895.0000 | 273.150 | 1.27    | 128.03 | 3    |
| 419                                                    | C2H3I      | vinyl iodide                                      | 593-66-8    | 7.03683  | 1239.1024 | 242.097 | -36.84  | 79.33  | 1,2  |
| 420                                                    | C2H3IO     | acetyl iodide                                     | 507-02-8    | 10.19619 | 3691.9656 | 396.686 | -0.60   | 129.66 | 1,2  |
| 421                                                    | C2H3I3     | 1,1,1-triiodoethane                               | 594-21-8    | 10.61802 | 3154.6606 | 187.065 | 140.93  | 272.24 | 2    |
| 422                                                    | C2H3I3     | 1,1,2-triiodoethane                               | ---         | 10.87620 | 3253.7253 | 186.289 | 143.16  | 275.16 | 2    |
| 423                                                    | C2H3N      | acetonitrile                                      | 75-05-8     | 7.54423  | 1583.4004 | 257.887 | -43.83  | 272.35 | 1,2  |
| 424                                                    | C2H3N      | methyl isocyanide                                 | 593-75-9    | 5.97357  | 847.8977  | 192.506 | -45.00  | 111.21 | 2    |
| 425                                                    | C2H3NO     | methyl isocyanate                                 | 624-83-9    | 6.69617  | 915.4883  | 200.848 | -40.13  | 59.65  | 1,2  |
| 426                                                    | C2H3NS     | methyl isothiocyanate                             | 556-61-6    | 7.46672  | 1696.4200 | 250.920 | 11.41   | 144.99 | 1,2  |
| 427                                                    | C2H3NS     | methyl thiocyanate                                | 556-64-9    | 7.25578  | 1625.7275 | 238.698 | 21.18   | 160.36 | 1,2  |
| 428                                                    | C2H4       | ethylene                                          | 74-85-1     | 6.96867  | 649.8057  | 262.730 | -169.15 | 9.20   | 1,2  |
| 429                                                    | C2H4BrCl   | 1-bromo-1-chloroethane                            | 593-96-4    | 6.00037  | 770.1900  | 163.891 | -9.86   | 109.37 | 1,2  |
| 430                                                    | C2H4BrCl   | 1-bromo-2-chloroethane                            | 107-04-0    | 6.58011  | 1130.0726 | 198.483 | -0.40   | 134.06 | 1,2  |
| 431                                                    | C2H4BrF    | 1-bromo-2-fluoroethane                            | 762-49-2    | 7.39003  | 1554.1000 | 273.150 | -29.94  | 96.15  | 1,2  |
| 432                                                    | C2H4BrF    | 1-bromo-1-fluoroethane                            | 2311-13-9   | 7.42302  | 1565.9000 | 273.150 | -29.35  | 96.06  | 3    |
| 433                                                    | C2H4Br2    | 1,1-dibromoethane                                 | 557-91-5    | 6.98331  | 1329.8026 | 216.095 | 6.16    | 133.72 | 1,2  |
| 434                                                    | C2H4Br2    | 1,2-dibromoethane                                 | 106-93-4    | 7.24196  | 1610.3596 | 238.402 | 9.79    | 377.00 | 1,2  |
| 435                                                    | C2H4ClF    | 1-chloro-1-fluoroethane                           | 1615-75-4   | 7.20144  | 1178.5829 | 256.631 | -66.58  | 36.58  | 1,2  |
| 436                                                    | C2H4ClF    | 1-chloro-2-fluoroethane                           | 762-50-5    | 6.71862  | 947.7790  | 193.809 | -28.07  | 74.17  | 1,2  |
| 437                                                    | C2H4ClF    | chlorofluoroethane                                | 110587-14-9 | 7.54750  | 1306.1113 | 246.452 | -46.97  | 54.25  | 2    |
| 438                                                    | C2H4ClN3   | 1-chloro-2-azidoethane                            | 53422-48-3  | 7.08983  | 1806.3690 | 273.150 | -0.15   | 189.08 | 3    |
| 439                                                    | C2H4Cl2    | 1,1-dichloroethane                                | 75-34-3     | 7.18076  | 1268.9377 | 237.755 | -32.45  | 249.85 | 1,2  |
| 440                                                    | C2H4Cl2    | 1,2-dichloroethane                                | 107-06-2    | 7.29016  | 1406.7116 | 235.480 | -35.66  | 288.45 | 1,2  |
| 441                                                    | C2H4Cl2O   | bis(chloromethyl) ether                           | 542-88-1    | 7.28725  | 1449.7134 | 224.949 | 5.63    | 129.24 | 1,2  |
| 442                                                    | C2H4Cl2S   | bis(chloromethyl) sulfide                         | 3592-44-7   | 8.42601  | 2383.4550 | 273.150 | 46.85   | 181.35 | 3    |
| 443                                                    | C2H4Cl6Si2 | 1,2-bis(trichlorosilyl)ethane                     | 2504-64-5   | 7.83551  | 2242.0000 | 251.000 | 76.99   | 230.77 | 3    |
| 444                                                    | C2H4Cl6Si2 | 1,1,1,3,3,3-hexachloro-2-methyl-1,3-disilapropane | 18076-92-1  | 8.10890  | 2425.0000 | 273.150 | 54.85   | 219.03 | 3    |
| 445                                                    | C2H4FNO2   | 2-fluoroethyl nitrate                             | 4528-33-0   | 8.83010  | 2000.0000 | 273.150 | -17.73  | 80.94  | 3    |
| 446                                                    | C2H4F2     | 1,1-difluoroethane                                | 75-37-6     | 7.14682  | 937.8957  | 244.854 | -92.27  | 113.26 | 1,2  |
| 447                                                    | C2H4F2     | 1,2-difluoroethane                                | 624-72-6    | 7.39569  | 1124.5264 | 238.572 | -62.75  | 28.29  | 1,2  |
| 448                                                    | C2H4F3OP   | methyl(trifluoro-methyl)phosphinite               | 6395-71-7   | 7.17177  | 1174.8000 | 236.910 | -46.56  | 57.53  | 3    |
| 449                                                    | C2H4F6OS   | pentafluoro(2-fluoroethoxy)sulfur                 | 900001-59-4 | 6.63058  | 1023.8700 | 183.760 | -1.92   | 113.12 | 3    |
| 450                                                    | C2H4I2     | 1,1-diiodoethane                                  | 594-02-5    | 5.13339  | 736.5900  | 103.620 | 63.01   | 273.82 | 2    |
| 451                                                    | C2H4I2     | 1,2-diiodoethane                                  | 624-73-7    | 6.17867  | 1068.7721 | 124.031 | 82.35   | 232.60 | 1,2  |
| 452                                                    | C2H4N2O4   | 1,1-dinitroethane                                 | 600-40-8    | 7.93517  | 1971.4288 | 204.495 | 79.77   | 210.25 | 1,2  |
| 453                                                    | C2H4N2O4   | 1,2-dinitroethane                                 | 7570-26-5   | 8.55452  | 2147.4868 | 204.495 | 79.77   | 195.21 | 3    |
| 454                                                    | C2H4N2O6   | ethylene glycol dinitrate                         | 628-96-6    | 5.83284  | 1378.9295 | 192.638 | 92.69   | 327.52 | 3    |
| 455                                                    | C2H4N2S2   | ethanedithioamide                                 | 79-40-3     | 12.71300 | 5515.0000 | 273.150 | 197.69  | 305.48 | 3    |
| 456                                                    | C2H4O      | acetaldehyde                                      | 75-07-0     | 7.31939  | 1176.3175 | 244.272 | -58.13  | 192.85 | 1,2  |
| 457                                                    | C2H4O      | ethylene oxide                                    | 75-21-8     | 7.19462  | 1100.6722 | 243.301 | -65.62  | 196.00 | 1,2  |
| 458                                                    | C2H4O      | ethanol                                           | 557-75-5    | 8.84622  | 1551.2083 | 249.531 | -51.83  | 24.32  | 3    |
| 459                                                    | C2H4O2     | acetic acid                                       | 64-19-7     | 7.27594  | 1327.1634 | 183.913 | 16.66   | 318.80 | 1,2  |
| 460                                                    | C2H4O2     | methyl formate                                    | 107-31-3    | 7.05336  | 1138.3109 | 236.959 | -48.91  | 214.05 | 1,2  |
| 461                                                    | C2H4O3     | peroxyacetic acid                                 | 79-21-0     | 12.02234 | 3061.7732 | 258.895 | 14.40   | 87.44  | 3    |
| 462                                                    | C2H4S      | ethylene sulfide                                  | 420-12-2    | 7.11139  | 1238.6882 | 237.244 | -34.56  | 77.98  | 1,2  |
| 463                                                    | C2H5AsBr2  | dibromoethylarsine                                | 683-43-2    | 8.49558  | 2608.7000 | 273.150 | 74.88   | 217.79 | 3    |
| 464                                                    | C2H5AsCl2  | ethyldichloroarsine                               | 598-14-1    | 6.21139  | 1035.2000 | 155.450 | 43.19   | 186.25 | 3    |
| 465                                                    | C2H5AsF2   | ethyldifluoroarsine                               | 430-40-0    | 7.57623  | 1563.9941 | 238.790 | -0.96   | 117.12 | 3    |
| 466                                                    | C2H5BCl2O  | dichloroethoxyborane                              | 16339-28-9  | 6.76300  | 1101.1000 | 205.750 | -14.69  | 101.72 | 3    |
| 467                                                    | C2H5Br     | bromoethane                                       | 74-96-4     | 7.31438  | 1260.4164 | 245.939 | -46.33  | 230.65 | 1,2  |
| 468                                                    | C2H5BrHg   | bromoethylmercury                                 | 107-26-6    | 10.44600 | 3994.0000 | 273.150 | 149.67  | 276.67 | 3    |
| 469                                                    | C2H5Cl     | ethyl chloride                                    | 75-00-3     | 6.94677  | 1064.7090 | 246.009 | -66.97  | 187.20 | 1,2  |
| 470                                                    | C2H5ClO    | 2-chloroethanol                                   | 107-07-3    | 8.52842  | 2283.2820 | 275.442 | 27.85   | 151.61 | 1,2  |
| 471                                                    | C2H5ClO    | chloromethyl methyl ether                         | 107-30-2    | 7.35419  | 1277.4295 | 229.513 | -28.48  | 81.27  | 1,2  |
| 472                                                    | C2H5ClO2S  | ethanesulfonyl chloride                           | 594-44-5    | 8.02158  | 2187.4700 | 250.174 | 61.36   | 201.81 | 3    |
| 473                                                    | C2H5Cl2FSi | dichloroethylfluoro-silane                        | 421-22-7    | 7.68110  | 1609.5000 | 273.150 | -32.25  | 84.58  | 3    |
| 474                                                    | C2H5Cl2P   | dichloroethylphosphine                            | 1498-40-4   | 6.34080  | 1029.0000 | 185.400 | 7.27    | 140.34 | 3    |
| 475                                                    | C2H5Cl3OSi | trichloroethoxysilane                             | 1825-82-7   | 7.15854  | 1427.2045 | 231.736 | 0.01    | 127.16 | 3    |
| 476                                                    | C2H5Cl3Si  | dichloro(chloromethyl)methylsilane                | 1558-33-4   | 5.77755  | 916.8893  | 195.025 | -3.11   | 158.21 | 3    |
| 477                                                    | C2H5F      | ethyl fluoride                                    | 353-36-6    | 7.21141  | 953.9420  | 257.429 | -103.85 | 102.15 | 1,2  |
| 478                                                    | C2H5FO     | 2-fluoroethanol                                   | 371-62-0    | 9.03031  | 2315.4694 | 273.030 | 15.31   | 122.88 | 1,2  |
| 479                                                    | C2H5FO3S   | ethyl fluorosulfonate                             | 371-69-7    | 8.08800  | 2010.7000 | 273.150 | -0.15   | 136.68 | 3    |
| 480                                                    | C2H5F2N    | N,N-difluoroethanamine                            | 758-18-9    | 6.91589  | 1009.5300 | 233.370 | -62.72  | 36.99  | 3    |

Table 1 Vapor Pressure – Organic Compounds

| log <sub>10</sub> P = A - B/(T + C) (P - mmHg, T - °C) |            |                                                                  |            |          |           |         |         |        |      |
|--------------------------------------------------------|------------|------------------------------------------------------------------|------------|----------|-----------|---------|---------|--------|------|
| NO                                                     | FORMULA    | NAME                                                             | CAS No     | A        | B         | C       | TMIN    | TMAX   | code |
| 481                                                    | C2H5F3NP   | amide methyl(trifluoro-methyl)phosphinite                        | 4669-74-3  | 7.23614  | 1311.9100 | 224.680 | -35.15  | 98.91  | 3    |
| 482                                                    | C2H5F3OSi  | ethoxytrifluorosilane                                            | 460-55-9   | 5.25420  | 358.5000  | 158.050 | -73.78  | 14.94  | 3    |
| 483                                                    | C2H5F3Si   | ethyltrifluorosilane                                             | 353-89-9   | 7.49669  | 1165.1400 | 256.820 | -77.48  | 13.21  | 3    |
| 484                                                    | C2H5HgI    | ethylmercuriodide                                                | 2440-42-8  | 11.15210 | 4163.0000 | 273.150 | 136.91  | 249.17 | 3    |
| 485                                                    | C2H5I      | ethyl iodide                                                     | 75-03-6    | 7.19600  | 1336.7770 | 237.434 | -21.69  | 95.58  | 1,2  |
| 486                                                    | C2H5N      | ethyleneimine                                                    | 151-56-4   | 7.15959  | 1176.4863 | 219.609 | -28.61  | 76.83  | 1,2  |
| 487                                                    | C2H5NO     | acetamide                                                        | 60-35-5    | 7.40606  | 1807.1500 | 178.098 | 81.00   | 249.71 | 1,2  |
| 488                                                    | C2H5NO     | N-methylformamide                                                | 123-39-7   | 7.49425  | 1885.0045 | 209.081 | 81.18   | 228.03 | 1,2  |
| 489                                                    | C2H5NO2    | nitroethane                                                      | 79-24-3    | 7.50847  | 1640.8054 | 240.115 | 11.99   | 139.12 | 1,2  |
| 490                                                    | C2H5NO3    | ethyl nitrate                                                    | 625-58-1   | 7.30952  | 1413.0669 | 231.820 | -7.86   | 110.52 | 1,2  |
| 491                                                    | C2H6       | ethane                                                           | 74-84-0    | 6.95185  | 698.9298  | 260.264 | -142.83 | 32.17  | 1,2  |
| 492                                                    | C2H6AlCl   | dimethylaluminum chloride                                        | 1184-58-3  | 6.83350  | 1342.7861 | 213.714 | 16.47   | 154.00 | 3    |
| 493                                                    | C2H6BCl2N  | dichloro(dimethyl-amino)borane                                   | 1113-31-1  | 6.97855  | 1392.6000 | 225.330 | 7.60    | 141.46 | 3    |
| 494                                                    | C2H6BF3S   | dimethyl sulfide-boron trifluoride(1:1)-complex                  | 353-43-5   | 9.80600  | 2227.0000 | 273.150 | -20.25  | 63.04  | 3    |
| 495                                                    | C2H6Cl2Ge  | dimethylgermanium dichloride                                     | 1529-48-2  | 7.10756  | 1454.9300 | 221.220 | 17.00   | 149.40 | 3    |
| 496                                                    | C2H6Cl2OSi | dichloroethoxysilane                                             | 6485-90-1  | 7.90040  | 1744.5000 | 273.150 | -20.34  | 96.56  | 3    |
| 497                                                    | C2H6Cl2Si  | dichlorodimethylsilane                                           | 75-78-5    | 7.12722  | 1292.1504 | 234.923 | -24.04  | 247.20 | 1,2  |
| 498                                                    | C2H6Cl2Si  | ethyldichlorosilane                                              | 1789-58-8  | 7.62493  | 1664.0000 | 276.000 | -24.83  | 98.51  | 1,2  |
| 499                                                    | C2H6Cl4Si2 | 1,2,2,2-tetrachloro-1,1-dimethyldisilane                         | 26980-43-8 | 7.14487  | 1680.7900 | 236.840 | 26.85   | 187.28 | 3    |
| 500                                                    | C2H6FO3P   | dimethyl fluorophosphate                                         | 5954-50-7  | 8.42510  | 2319.5000 | 274.150 | 38.24   | 168.23 | 3    |
| 501                                                    | C2H6F3NS   | dimethylaminosulfur trifluoride                                  | 3880-03-3  | 8.29564  | 2115.3000 | 273.150 | 16.79   | 140.50 | 1,2  |
| 502                                                    | C2H6Hg     | dimethyl mercury                                                 | 593-74-8   | 6.91434  | 1293.4307 | 227.670 | -13.50  | 118.86 | 3    |
| 503                                                    | C2H6N2O    | N-nitrosodimethylamine                                           | 62-75-9    | 7.53813  | 1890.2752 | 253.022 | 30.70   | 180.90 | 1,2  |
| 504                                                    | C2H6N2S    | dimethyl sulfur diimide                                          | 13849-02-0 | 8.07884  | 1941.7000 | 273.150 | -25.15  | 123.36 | 3    |
| 505                                                    | C2H6O      | ethyl alcohol                                                    | 64-17-5    | 8.12875  | 1660.8713 | 238.131 | -5.15   | 240.75 | 1,2  |
| 506                                                    | C2H6O      | dimethyl ether                                                   | 115-10-6   | 7.15400  | 977.8136  | 252.976 | -94.08  | 127.23 | 1,2  |
| 507                                                    | C2H6OS     | 2-mercaptoethanol                                                | 60-24-2    | 7.45119  | 1624.2221 | 198.330 | 53.44   | 183.04 | 1,2  |
| 508                                                    | C2H6O2     | ethylene glycol                                                  | 107-21-1   | 9.69599  | 3145.8596 | 264.246 | 97.51   | 350.00 | 1,2  |
| 509                                                    | C2H6O2S    | dimethyl sulfone                                                 | 67-71-0    | 7.33080  | 1903.4848 | 189.900 | 108.90  | 269.09 | 1,2  |
| 510                                                    | C2H6O3S    | dimethyl sulfite                                                 | 616-42-2   | 6.40627  | 1222.9320 | 221.036 | 5.17    | 158.44 | 1,2  |
| 511                                                    | C2H6O4S    | dimethyl sulfate                                                 | 77-78-1    | 6.55929  | 1436.9444 | 193.786 | 64.69   | 231.67 | 1,2  |
| 512                                                    | C2H6S      | ethyl mercaptan                                                  | 75-08-1    | 7.12083  | 1193.8233 | 245.711 | -50.67  | 226.00 | 1,2  |
| 513                                                    | C2H6S      | dimethyl sulfide                                                 | 75-18-3    | 7.07585  | 1150.8686 | 236.491 | -47.07  | 229.89 | 1,2  |
| 514                                                    | C2H6S2     | 1,2-ethanedithiol                                                | 540-63-6   | 7.13440  | 1537.7260 | 215.462 | 35.21   | 173.58 | 1,2  |
| 515                                                    | C2H6S2     | dimethyl disulfide                                               | 624-92-0   | 7.25695  | 1502.7256 | 233.641 | 6.53    | 341.85 | 1,2  |
| 516                                                    | C2H6Se     | dimethyl selenide                                                | 593-79-3   | 7.20612  | 1315.9800 | 247.251 | -35.21  | 79.76  | 3    |
| 517                                                    | C2H6Te     | dimethyl telluride                                               | 593-80-6   | 7.59028  | 1688.8200 | 263.460 | -7.20   | 119.63 | 3    |
| 518                                                    | C2H7BO2    | dimethoxyborane                                                  | 4542-61-4  | 6.91474  | 1033.6979 | 230.351 | -55.58  | 46.56  | 3    |
| 519                                                    | C2H7ClO2Si | chlorodimethoxy-silane                                           | 4861-14-7  | 8.06160  | 1774.0000 | 273.150 | -21.93  | 90.39  | 3    |
| 520                                                    | C2H7ClSi   | chlorodimethylsilane                                             | 1066-35-9  | 7.60461  | 1458.0000 | 273.150 | -52.40  | 56.51  | 3    |
| 521                                                    | C2H7FGe    | fluorodimethyl-germane                                           | 34117-35-6 | 8.41000  | 1822.0000 | 273.150 | -31.15  | 75.35  | 3    |
| 522                                                    | C2H7N      | ethylamine                                                       | 75-04-7    | 6.65765  | 759.2548  | 183.179 | -48.98  | 183.00 | 1,2  |
| 523                                                    | C2H7N      | dimethylamine                                                    | 124-40-3   | 7.10456  | 996.0027  | 227.960 | -64.80  | 164.05 | 1,2  |
| 524                                                    | C2H7NO     | monoethanolamine                                                 | 141-43-5   | 7.44237  | 1560.9667 | 171.200 | 71.10   | 365.05 | 1,2  |
| 525                                                    | C2H8N2     | ethylenediamine                                                  | 107-15-3   | 7.61655  | 1593.2458 | 118.580 | 11.14   | 140.69 | 1,2  |
| 526                                                    | C2H8N2     | 1,1-dimethylhydrazine                                            | 57-14-7    | 7.27607  | 1252.9463 | 221.118 | -21.48  | 84.91  | 1,2  |
| 527                                                    | C2H8N2     | 1,2-dimethylhydrazine                                            | 540-73-8   | 5.59067  | 629.2035  | 145.140 | -8.90   | 116.07 | 1,2  |
| 528                                                    | C2H8Si     | dimethyl silane                                                  | 1111-74-6  | 7.33941  | 943.6066  | 241.120 | -92.27  | -0.82  | 2    |
| 529                                                    | C2H9BS     | borane-methyl sulfide complex                                    | 13292-87-0 | 10.27794 | 2346.0000 | 273.150 | -20.29  | 57.45  | 3    |
| 530                                                    | C2H9FOSi2  | 1-fluoro-1,3-dimethyldisiloxane                                  | 35192-38-2 | 6.32253  | 1162.7400 | 274.470 | -78.15  | 95.75  | 3    |
| 531                                                    | C2N2       | cyanogen                                                         | 460-19-5   | 6.94416  | 779.2370  | 212.922 | -81.83  | 127.00 | 1,2  |
| 532                                                    | C3AsF9     | tris(trifluoromethyl)-arsine                                     | 432-02-0   | 7.86600  | 1528.0000 | 273.150 | -50.60  | 53.06  | 3    |
| 533                                                    | C3BF9S3    | tris(trifluoromethyl-thio)borane(3)                              | 36884-78-3 | 7.32315  | 1772.5400 | 273.150 | 7.18    | 154.87 | 3    |
| 534                                                    | C3BrClF6O4 | 1,1,2,3,3,3-hexafluoro-2-bromopropyl perchlorate                 | 38126-26-0 | 8.13464  | 1991.1400 | 273.150 | -0.15   | 128.87 | 3    |
| 535                                                    | C3BrF5O    | 2,3,3,3-tetrafluoro-2-bromopropionyl fluoride                    | 6129-62-0  | 6.77572  | 943.9700  | 213.040 | -49.60  | 49.62  | 3    |
| 536                                                    | C3BrF7Se   | heptafluoro-1-propane selenyl bromide                            | 662-44-2   | 7.85210  | 1829.0000 | 273.150 | -22.15  | 118.48 | 3    |
| 537                                                    | C3Br2F6O   | (trifluoromethyl)-(1,2,2-trifluoro-1,2-dibromoethyl)ether        | 2356-57-2  | 8.18410  | 1806.0000 | 273.150 | -21.76  | 87.89  | 3    |
| 538                                                    | C3Br3F6NO  | 1,1,1,1',1'',1''-hexafluoro-N-(tribromomethoxy)-dimethylamine    | 29528-78-7 | 5.72010  | 1510.0000 | 273.150 | 23.85   | 321.75 | 3    |
| 539                                                    | C3ClF5O    | chloropentafluoroacetone                                         | 79-53-8    | 6.68208  | 869.4219  | 220.719 | -67.71  | 27.67  | 1,2  |
| 540                                                    | C3ClF5O    | propanoyl fluoride, 2-chloro-2,3,3,3-tetrafluoro-                | 28627-00-1 | 7.28100  | 1248.0000 | 273.150 | -78.15  | 31.30  | 3    |
| 541                                                    | C3ClF6NO2  | O-(chloroformyl)-N,N-bis(trifluoromethyl)-hydroxylamine          | 15496-01-2 | 8.69630  | 1804.5000 | 273.150 | -46.15  | 54.08  | 3    |
| 542                                                    | C3ClF7     | 1-chloro-1,1,2,2,3,3,3-heptafluoropropane                        | 422-86-6   | 7.41303  | 1156.8487 | 256.620 | -76.23  | 16.79  | 3    |
| 543                                                    | C3ClF7     | 2-chloro-1,1,1,2,2,3,3,3-heptafluoropropane                      | 76-18-6    | 7.46073  | 1165.4538 | 256.620 | -76.23  | 15.95  | 1,2  |
| 544                                                    | C3ClF7O    | heptafluoroisopropyl hypochlorite                                | 22675-68-9 | 6.47146  | 966.2040  | 248.237 | -79.15  | 45.48  | 3    |
| 545                                                    | C3ClF8N    | N-chloro-N,1,2,2,2-pentafluoro-1-(trifluoromethyl)ethylamine     | 33757-13-0 | 7.70881  | 1503.0000 | 273.150 | -49.12  | 58.86  | 3    |
| 546                                                    | C3ClF11S   | chlorotetrafluoro-(heptafluoropropyl) sulfur                     | 42769-86-8 | 7.93010  | 1768.0000 | 273.150 | -18.03  | 99.20  | 3    |
| 547                                                    | C3Cl2F6    | 1,2-dichlorohexafluoropropane                                    | 661-97-2   | 7.48297  | 1298.3996 | 246.029 | -45.75  | 55.85  | 1,2  |
| 548                                                    | C3Cl2F6    | 1,3-dichloro-1,1,2,2,3,3-hexafluoropropane                       | 662-01-1   | 7.44318  | 1290.4308 | 246.029 | -45.75  | 56.79  | 2    |
| 549                                                    | C3Cl2F6O   | 1,1,2,3,3,3-hexafluoro-2-chloropropyl                            | 22675-69-0 | 6.91865  | 1546.9500 | 273.150 | -11.78  | 140.83 | 3    |
| 550                                                    | C3Cl2F7N   | N,N-dichloro-1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethylamine   | 32751-04-5 | 7.84704  | 1706.1000 | 273.150 | -23.98  | 92.56  | 3    |
| 551                                                    | C3Cl2F7NS  | S,S-dichloro-N-(tetrafluoro-1-(trifluoromethyl)-ethylsulfonimide | 26454-66-0 | 8.13703  | 2055.2700 | 273.150 | 14.82   | 141.62 | 3    |
| 552                                                    | C3Cl3F5    | 1,1,1-trichloro-2,2,3,3,3-pentafluoropropane                     | 4259-43-2  | 7.30658  | 1368.9204 | 235.492 | -18.43  | 96.39  | 3    |
| 553                                                    | C3Cl3F5    | 1,2,2-trichloro-1,1,3,3,3-pentafluoropropane                     | 1599-41-3  | 7.19017  | 1335.3113 | 236.048 | -20.33  | 97.09  | 3    |
| 554                                                    | C3Cl3F5    | 1,2,3-trichloro-1,1,2,3,3-pentafluoropropane                     | 76-17-5    | 7.29978  | 1366.4587 | 235.576 | -18.67  | 96.32  | 1,2  |
| 555                                                    | C3Cl3F5O   | chlorodifluoromethyl 2,2-dichloro-1,1,2-trifluoroethyl ether     | 37136-24-6 | 6.87986  | 1174.8000 | 216.240 | -16.44  | 101.44 | 3    |
| 556                                                    | C3Cl4F4    | 1,1,1,3-tetrachloro-2,2,3,3-tetrafluoropropane                   | 2268-46-4  | 7.95789  | 2093.5160 | 298.497 | 2.39    | 139.84 | 1,2  |
| 557                                                    | C3Cl5F3    | 1,1,1,3,3-pentachloro-2,2,3-trifluoropropane                     | 2354-06-5  | 7.30364  | 1638.6494 | 214.248 | 45.70   | 183.31 | 1,2  |
| 558                                                    | C3Cl5F3O   | trichloromethyl 2,2-dichloro-1,1,2-trifluoroethyl ether          | 428-73-9   | 6.89569  | 1421.2500 | 203.240 | 37.83   | 179.45 | 3    |
| 559                                                    | C3Cl6      | hexachloropropene                                                | 1888-71-7  | 7.25117  | 1813.7477 | 205.462 | 84.68   | 240.25 | 1,2  |
| 560                                                    | C3Cl6F2    | hexachlorodifluoropropane                                        | 661-96-1   | 7.48104  | 1841.6775 | 201.354 | 82.81   | 227.02 | 2    |