

## SURFACE TENSION OF COMMON LIQUIDS

The surface tension  $\gamma$  of about 200 liquids is tabulated here as a function of temperature. Values of  $\gamma$  are given in units of millinewtons per meter (mN/m), which is equivalent to dyn/cm in cgs units. The values refer to a nominal pressure of one atmosphere (about 100 kPa) except in cases where the indicated temperature is above the normal boiling point of the substance; in those cases, the applicable pressure is the saturation vapor pressure at the temperature in question.

The uncertainty of the values is 0.1 to 0.2 mN/m or less in most cases. Values at temperatures between the points tabulated can be obtained by linear interpolation to a good approximation.

Substances are listed by molecular formula in the modified Hill order, with substances not containing carbon appearing before those that do contain carbon. A more extensive compilation of surface tension may be found in the Reference.

### REFERENCE

Jasper, J. J., *J. Phys. Chem. Ref. Data*, 1, 841, 1972.

| Mol. form.                                    | Name                      | $\gamma$ in mN/m |        |        |        |        |
|---|---------------------------|------------------|--------|--------|--------|--------|
|   |                           | 10°C             | 25°C   | 50°C   | 75°C   | 100°C  |
| Br <sub>2</sub>                               | Bromine                   | 43.68            | 40.95  | 36.40  |        |        |
| Cl <sub>2</sub> O <sub>2</sub> S              | Sulfuryl chloride         |                  | 28.78  |        |        |        |
| Cl <sub>3</sub> OP                            | Phosphoryl chloride       |                  | 32.03  | 28.85  | 25.66  |        |
| Cl <sub>3</sub> P                             | Phosphorus trichloride    |                  | 27.98  | 24.81  |        |        |
| Cl <sub>4</sub> Si                            | Silicon tetrachloride     | 19.78            | 18.29  | 15.80  |        |        |
| H <sub>2</sub> O                              | Water                     | 74.23            | 71.99  | 67.94  | 63.57  | 58.91  |
| H <sub>4</sub> N <sub>2</sub>                 | Hydrazine                 |                  | 66.39  |        |        |        |
| Hg  | Mercury                   | 488.55           | 485.48 | 480.36 | 475.23 | 470.11 |
| CCl <sub>4</sub>                              | Tetrachloromethane        |                  | 26.43  | 23.37  | 20.31  | 17.25  |
| CS <sub>2</sub>                               | Carbon disulfide          | 33.81            | 31.58  | 27.87  |        |        |
| CHBr <sub>3</sub>                             | Tribromomethane           |                  | 44.87  | 41.60  | 38.33  |        |
| CHCl <sub>3</sub>                             | Trichloromethane          |                  | 26.67  | 23.44  | 20.20  |        |
| CH <sub>2</sub> Br <sub>2</sub>               | Dibromomethane            |                  | 39.05  | 35.33  | 31.61  |        |
| CH <sub>2</sub> Cl <sub>2</sub>               | Dichloromethane           |                  | 27.20  |        |        |        |
| CH <sub>2</sub> O <sub>2</sub>                | Formic acid               |                  | 37.13  | 34.38  | 31.64  |        |
| CH <sub>3</sub> I                             | Iodomethane               | 32.19            | 30.34  |        |        |        |
| CH <sub>3</sub> NO                            | Formamide                 |                  | 57.03  | 54.92  | 52.82  | 50.71  |
| CH <sub>3</sub> NO <sub>2</sub>               | Nitromethane              | 39.04            | 36.53  | 32.33  |        |        |
| CH <sub>4</sub> O                             | Methanol                  | 23.23            | 22.07  | 20.14  |        |        |
| CH <sub>5</sub> N                             | Methylamine               |                  | 19.15  |        |        |        |
| C <sub>2</sub> HCl <sub>5</sub>               | Pentachloroethane         |                  | 34.15  | 31.20  | 28.26  |        |
| C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub> | Trifluoroacetic acid      |                  | 13.53  | 11.42  |        |        |
| C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub> | 1,1,2,2-Tetrachloroethane |                  | 35.58  | 32.41  | 29.24  | 26.07  |
| C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> | 1,1,1-Trichloroethane     |                  | 25.18  | 22.07  |        |        |
| C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> | 1,1,2-Trichloroethane     |                  | 34.02  | 30.65  | 27.27  | 23.89  |
| C <sub>2</sub> H <sub>3</sub> N               | Acetonitrile              |                  | 28.66  | 25.51  |        |        |
| C <sub>2</sub> H <sub>4</sub> Br <sub>2</sub> | 1,2-Dibromoethane         |                  | 39.55  | 36.25  | 32.95  |        |
| C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub> | 1,1-Dichloroethane        |                  | 24.07  |        |        |        |
| C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub> | 1,2-Dichloroethane        |                  | 31.86  | 28.29  | 24.72  |        |
| C <sub>2</sub> H <sub>4</sub> O               | Acetaldehyde              | 22.54            | 20.50  | 17.10  |        |        |
| C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>  | Acetic acid               |                  | 27.10  | 24.61  | 22.13  |        |
| C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>  | Methyl formate            | 26.72            | 24.36  | 20.43  | 16.50  | 12.57  |
| C <sub>2</sub> H <sub>5</sub> Br              | Bromoethane               | 25.36            | 23.62  |        |        |        |
| C <sub>2</sub> H <sub>5</sub> I               | Iodoethane                | 30.38            | 28.46  | 25.24  |        |        |
| C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> | Nitroethane               | 34.02            | 32.13  | 29.00  |        |        |
| C <sub>2</sub> H <sub>6</sub> O               | Ethanol                   | 23.22            | 21.97  | 19.89  |        |        |
| C <sub>2</sub> H <sub>6</sub> OS              | Dimethyl sulfoxide        |                  | 42.92  | 40.06  |        |        |
| C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>  | Ethylene glycol           |                  | 47.99  | 45.76  | 43.54  | 41.31  |
| C <sub>2</sub> H <sub>6</sub> S               | Dimethyl sulfide          | 25.27            | 24.06  |        |        |        |
| C <sub>2</sub> H <sub>6</sub> S               | Ethanethiol               |                  | 23.08  |        |        |        |
| C <sub>2</sub> H <sub>6</sub> S <sub>2</sub>  | Dimethyl disulfide        |                  | 33.39  | 30.04  |        |        |
| C <sub>2</sub> H <sub>7</sub> N               | Dimethylamine             |                  | 26.34  |        |        |        |
| C <sub>2</sub> H <sub>7</sub> N               | Ethylamine                |                  | 19.20  |        |        |        |

**SURFACE TENSION OF COMMON LIQUIDS (continued)**

| Mol. form.                                    | Name                    | $\gamma$ in mN/m |       |       |       |       |
|---|-------------------------|------------------|-------|-------|-------|-------|
|   |                         | 10°C             | 25°C  | 50°C  | 75°C  | 100°C |
| C <sub>2</sub> H <sub>7</sub> NO              | Ethanolamine            |                  | 48.32 | 45.53 | 42.73 |       |
| C <sub>3</sub> H <sub>5</sub> Br              | 3-Bromopropene          |                  | 26.31 | 23.17 |       |       |
| C <sub>3</sub> H <sub>5</sub> Cl              | 3-Chloropropene         |                  | 23.14 |       |       |       |
| C <sub>3</sub> H <sub>5</sub> ClO             | Epichlorohydrin         | 38.40            | 36.36 | 32.96 | 29.56 | 26.16 |
| C <sub>3</sub> H <sub>5</sub> N               | Propanenitrile          |                  | 26.75 | 23.87 |       |       |
| C <sub>3</sub> H <sub>6</sub> Cl <sub>2</sub> | 1,2-Dichloropropane     |                  | 28.32 | 25.22 | 22.12 |       |
| C <sub>3</sub> H <sub>6</sub> O               | Acetone                 |                  | 23.46 | 20.66 |       |       |
| C <sub>3</sub> H <sub>6</sub> O               | Allyl alcohol           | 26.63            | 25.28 | 23.02 | 20.77 |       |
| C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>  | Ethyl formate           | 25.16            | 23.18 |       |       |       |
| C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>  | Methyl acetate          | 26.66            | 24.73 | 21.51 |       |       |
| C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>  | Propanoic acid          |                  | 26.20 | 23.72 | 21.23 |       |
| C <sub>3</sub> H <sub>7</sub> Br              | 1-Bromopropane          | 27.08            | 25.26 | 22.21 |       |       |
| C <sub>3</sub> H <sub>7</sub> Br              | 2-Bromopropane          | 25.03            | 23.25 | 20.30 |       |       |
| C <sub>3</sub> H <sub>7</sub> Cl              | 1-Chloropropane         | 23.16            | 21.30 |       |       |       |
| C <sub>3</sub> H <sub>7</sub> Cl              | 2-Chloropropane         | 20.49            | 19.16 |       |       |       |
| C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> | 2-Nitropropane          | 31.02            | 29.29 | 26.39 |       |       |
| C <sub>3</sub> H <sub>8</sub> O               | 1-Propanol              | 24.48            | 23.32 | 21.38 | 19.43 |       |
| C <sub>3</sub> H <sub>8</sub> O               | 2-Propanol              | 22.11            | 20.93 | 18.96 | 16.98 |       |
| C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>  | 2-Methoxyethanol        | 32.32            | 30.84 | 28.38 | 25.92 | 23.46 |
| C <sub>3</sub> H <sub>8</sub> S               | 1-Propanethiol          |                  | 24.20 | 21.02 |       |       |
| C <sub>3</sub> H <sub>8</sub> S               | 2-Propanethiol          |                  | 21.33 | 18.39 |       |       |
| C <sub>3</sub> H <sub>9</sub> N               | Propylamine             |                  | 21.75 |       |       |       |
| C <sub>3</sub> H <sub>9</sub> N               | Trimethylamine          |                  | 13.41 |       |       |       |
| C <sub>4</sub> H <sub>4</sub> N <sub>2</sub>  | Pyridazine              | 49.51            | 47.96 | 45.37 | 42.78 | 40.19 |
| C <sub>4</sub> H <sub>4</sub> N <sub>2</sub>  | Pyrimidine              |                  | 30.33 | 27.80 | 25.28 | 22.75 |
| C <sub>4</sub> H <sub>4</sub> S               | Thiophene               |                  | 30.68 | 27.36 |       |       |
| C <sub>4</sub> H <sub>5</sub> N               | Pyrrole                 | 38.71            | 37.06 | 34.31 |       |       |
| C <sub>4</sub> H <sub>6</sub> O <sub>3</sub>  | Acetic anhydride        | 34.08            | 31.93 | 28.34 | 24.75 | 21.16 |
| C <sub>4</sub> H <sub>7</sub> N               | Butanenitrile           |                  | 26.92 | 24.33 | 21.73 |       |
| C <sub>4</sub> H <sub>8</sub> O               | 2-Butanone              |                  | 23.97 | 21.16 |       |       |
| C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>  | 1,4-Dioxane             |                  | 32.75 | 29.28 | 25.80 | 22.32 |
| C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>  | Ethyl acetate           | 25.13            | 23.39 | 20.49 | 17.58 | 14.68 |
| C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>  | Methyl propanoate       | 26.32            | 24.44 | 21.29 |       |       |
| C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>  | Butanoic acid           |                  | 26.05 | 23.75 | 21.45 |       |
| C <sub>4</sub> H <sub>9</sub> Br              | 1-Bromobutane           | 27.58            | 25.90 | 23.08 | 20.27 | 17.45 |
| C <sub>4</sub> H <sub>9</sub> Cl              | 1-Chlorobutane          | 24.85            | 23.18 | 20.39 |       |       |
| C <sub>4</sub> H <sub>9</sub> I               | 1-Iodobutane            | 29.79            | 28.24 | 25.67 | 23.09 | 20.51 |
| C <sub>4</sub> H <sub>9</sub> N               | Pyrrolidine             | 30.58            | 29.23 | 26.98 |       |       |
| C <sub>4</sub> H <sub>10</sub> O              | 1-Butanol               | 26.28            | 24.93 | 22.69 | 20.44 | 18.20 |
| C <sub>4</sub> H <sub>10</sub> O              | 2-Butanol               | 23.74            | 22.54 | 20.56 | 18.57 | 16.58 |
| C <sub>4</sub> H <sub>10</sub> O              | 2-Methyl-2-propanol     |                  | 19.96 | 17.71 |       |       |
| C <sub>4</sub> H <sub>10</sub> O              | Diethyl ether           |                  | 16.65 |       |       |       |
| C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> | 2-Ethoxyethanol         |                  | 28.35 | 26.11 | 23.86 | 21.62 |
| C <sub>4</sub> H <sub>10</sub> O <sub>3</sub> | Diethylene glycol       |                  | 44.77 | 42.57 | 40.37 | 38.17 |
| C <sub>4</sub> H <sub>10</sub> S              | Diethyl sulfide         | 26.22            | 24.57 | 21.80 |       |       |
| C <sub>4</sub> H <sub>11</sub> N              | Butylamine              |                  | 23.44 | 20.63 |       |       |
| C <sub>4</sub> H <sub>11</sub> N              | Isobutylamine           |                  | 21.75 | 19.02 |       |       |
| C <sub>4</sub> H <sub>11</sub> N              | <i>tert</i> -Butylamine |                  | 16.87 |       |       |       |
| C <sub>4</sub> H <sub>11</sub> N              | Diethylamine            |                  | 19.85 |       |       |       |
| C <sub>5</sub> H <sub>4</sub> O <sub>2</sub>  | Furfural                | 45.08            | 43.09 | 39.78 | 36.46 | 33.14 |
| C <sub>5</sub> H <sub>5</sub> N               | Pyridine                |                  | 36.56 | 33.29 | 30.03 |       |
| C <sub>5</sub> H <sub>8</sub>                 | Cyclopentene            | 24.45            | 22.20 |       |       |       |
| C <sub>5</sub> H <sub>8</sub> O               | Cyclopentanone          | 34.45            | 32.80 | 30.05 | 27.30 | 24.55 |
| C <sub>5</sub> H <sub>10</sub>                | 1-Pentene               | 17.10            | 15.45 |       |       |       |
| C <sub>5</sub> H <sub>10</sub>                | 2-Methyl-2-butene       | 18.61            | 17.15 |       |       |       |
| C <sub>5</sub> H <sub>10</sub>                | Cyclopentane            | 24.07            | 21.88 | 18.22 |       |       |
| C <sub>5</sub> H <sub>10</sub> O              | 2-Pentanone             |                  | 23.25 | 21.62 |       |       |

**SURFACE TENSION OF COMMON LIQUIDS (continued)**

| Mol. form.                                    | Name                      | $\gamma$ in mN/m |       |       |       |       |
|---|---------------------------|------------------|-------|-------|-------|-------|
|   |                           | 10°C             | 25°C  | 50°C  | 75°C  | 100°C |
| C <sub>5</sub> H <sub>10</sub> O              | 3-Pentanone               |                  | 24.74 | 22.13 |       |       |
| C <sub>5</sub> H <sub>10</sub> O              | Pentanal                  | 26.95            | 25.44 | 22.91 |       |       |
| C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> | Butyl formate             | 26.05            | 24.52 | 21.95 | 19.39 | 16.82 |
| C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> | Propyl acetate            | 25.48            | 23.80 | 21.00 | 18.20 | 15.40 |
| C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> | Isopropyl acetate         | 23.37            | 21.76 | 19.08 | 16.40 |       |
| C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> | Ethyl propanoate          | 25.55            | 23.80 | 20.88 | 17.96 |       |
| C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> | Methyl butanoate          | 26.34            | 24.62 | 21.76 | 18.89 | 16.03 |
| C <sub>5</sub> H <sub>11</sub> Cl             | 1-Chloropentane           | 26.01            | 24.40 | 21.71 | 19.02 | 16.33 |
| C <sub>5</sub> H <sub>11</sub> N              | Piperidine                | 30.64            | 28.91 | 26.03 | 23.14 | 20.26 |
| C <sub>5</sub> H <sub>12</sub>                | Pentane                   | 17.15            | 15.49 |       |       |       |
| C <sub>5</sub> H <sub>12</sub> O              | 1-Pentanol                | 26.67            | 25.36 | 23.17 | 20.99 | 18.80 |
| C <sub>5</sub> H <sub>12</sub> O              | 2-Pentanol                | 24.96            | 23.45 | 20.94 | 18.43 | 15.92 |
| C <sub>5</sub> H <sub>12</sub> O              | 3-Methyl-1-butanol        | 24.94            | 23.71 | 21.66 | 19.61 | 17.56 |
| C <sub>5</sub> H <sub>13</sub> N              | Pentylamine               |                  | 24.69 | 22.14 | 19.58 |       |
| C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub> | <i>m</i> -Dichlorobenzene | 37.15            | 35.43 | 32.57 | 29.70 | 26.83 |
| C <sub>6</sub> H <sub>5</sub> Br              | Bromobenzene              | 36.98            | 35.24 | 32.34 | 29.44 | 26.54 |
| C <sub>6</sub> H <sub>5</sub> Cl              | Chlorobenzene             | 34.78            | 32.99 | 30.02 | 27.04 | 24.06 |
| C <sub>6</sub> H <sub>5</sub> ClO             | <i>o</i> -Chlorophenol    |                  | 39.70 | 36.89 | 34.09 | 31.28 |
| C <sub>6</sub> H <sub>5</sub> ClO             | <i>m</i> -Chlorophenol    |                  | 41.18 | 38.66 | 36.13 | 33.61 |
| C <sub>6</sub> H <sub>5</sub> F               | Fluorobenzene             | 28.47            | 26.66 | 23.65 | 20.64 |       |
| C <sub>6</sub> H <sub>5</sub> I               | Iodobenzene               | 40.40            | 38.71 | 35.91 | 33.10 | 30.29 |
| C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub> | Nitrobenzene              |                  |       | 40.56 | 37.66 | 34.77 |
| C <sub>6</sub> H <sub>6</sub>                 | Benzene                   |                  | 28.22 | 25.00 | 21.77 |       |
| C <sub>6</sub> H <sub>6</sub> O               | Phenol                    |                  |       | 38.20 | 35.53 | 32.86 |
| C <sub>6</sub> H <sub>7</sub> N               | Aniline                   |                  | 42.12 | 39.41 | 36.69 |       |
| C <sub>6</sub> H <sub>7</sub> N               | 2-Methylpyridine          |                  | 33.00 | 29.90 | 26.79 |       |
| C <sub>6</sub> H <sub>8</sub> N <sub>2</sub>  | Adiponitrile              |                  | 45.45 | 43.02 | 40.58 |       |
| C <sub>6</sub> H <sub>10</sub>                | Cyclohexene               | 28.01            | 26.17 | 23.12 |       |       |
| C <sub>6</sub> H <sub>10</sub> O              | Cyclohexanone             | 36.43            | 34.57 | 31.46 | 28.36 | 25.25 |
| C <sub>6</sub> H <sub>11</sub> N              | Hexanenitrile             |                  | 27.37 | 25.11 | 22.84 |       |
| C <sub>6</sub> H <sub>12</sub>                | Cyclohexane               | 26.43            | 24.65 | 21.68 |       |       |
| C <sub>6</sub> H <sub>12</sub>                | Methylcyclopentane        | 23.47            | 21.72 | 18.82 |       |       |
| C <sub>6</sub> H <sub>12</sub>                | 1-Hexene                  | 19.44            | 17.90 | 15.33 |       |       |
| C <sub>6</sub> H <sub>12</sub> O              | Cyclohexanol              |                  | 32.92 | 30.50 | 28.09 | 25.67 |
| C <sub>6</sub> H <sub>12</sub> O              | 2-Hexanone                |                  | 25.45 | 22.72 |       |       |
| C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> | Butyl acetate             | 26.48            | 24.88 | 22.21 | 19.54 | 16.87 |
| C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> | Isobutyl acetate          | 24.58            | 23.06 | 20.53 | 17.99 | 15.46 |
| C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> | Ethyl butanoate           | 25.51            | 23.94 | 21.33 | 18.71 | 16.10 |
| C <sub>6</sub> H <sub>12</sub> O <sub>3</sub> | Paraldehyde               | 27.22            | 25.63 | 22.97 | 20.32 | 17.66 |
| C <sub>6</sub> H <sub>13</sub> Cl             | 1-Chlorohexane            | 27.28            | 25.73 | 23.13 | 20.54 | 17.94 |
| C <sub>6</sub> H <sub>13</sub> N              | Cyclohexylamine           |                  | 31.22 | 28.25 | 25.28 |       |
| C <sub>6</sub> H <sub>14</sub>                | Hexane                    | 19.42            | 17.89 | 15.33 |       |       |
| C <sub>6</sub> H <sub>14</sub>                | 2-Methylpentane           | 18.37            | 16.88 | 14.39 |       |       |
| C <sub>6</sub> H <sub>14</sub>                | 3-Methylpentane           | 19.20            | 17.61 | 14.96 |       |       |
| C <sub>6</sub> H <sub>14</sub> O              | Diisopropyl ether         |                  | 17.27 | 14.65 |       |       |
| C <sub>6</sub> H <sub>14</sub> O              | 1-Hexanol                 |                  | 25.81 | 23.81 | 21.80 | 19.80 |
| C <sub>6</sub> H <sub>14</sub> O <sub>2</sub> | 1,1-Diethoxyethane        |                  | 20.89 | 18.31 | 15.74 |       |
| C <sub>6</sub> H <sub>14</sub> O <sub>2</sub> | 2-Butoxyethanol           | 27.36            | 26.14 | 24.10 | 22.06 | 20.02 |
| C <sub>6</sub> H <sub>15</sub> N              | Triethylamine             |                  | 20.22 | 17.74 |       |       |
| C <sub>6</sub> H <sub>15</sub> N              | Dipropylamine             |                  | 22.31 | 19.75 | 17.20 |       |
| C <sub>6</sub> H <sub>15</sub> N              | Diisopropylamine          |                  | 19.14 | 16.45 |       |       |
| C <sub>7</sub> H <sub>5</sub> N               | Benzonitrile              |                  | 38.79 | 35.90 | 33.00 |       |
| C <sub>7</sub> H <sub>6</sub> O               | Benzaldehyde              | 39.63            | 38.00 | 35.27 | 32.55 | 29.82 |
| C <sub>7</sub> H <sub>8</sub>                 | Toluene                   | 29.71            | 27.93 | 24.96 | 21.98 | 19.01 |
| C <sub>7</sub> H <sub>8</sub> O               | <i>o</i> -Cresol          |                  | 36.90 | 34.38 | 31.85 | 29.32 |
| C <sub>7</sub> H <sub>8</sub> O               | <i>m</i> -Cresol          |                  | 35.69 | 33.38 | 31.07 | 28.76 |
| C <sub>7</sub> H <sub>8</sub> O               | Benzyl alcohol            |                  |       |       | 27.89 | 24.44 |

**SURFACE TENSION OF COMMON LIQUIDS (continued)**

| Mol. form.                                     | Name                          | $\gamma$ in mN/m |       |       |       |       |
|--|-------------------------------|------------------|-------|-------|-------|-------|
|  |                               | 10°C             | 25°C  | 50°C  | 75°C  | 100°C |
| C <sub>7</sub> H <sub>8</sub> O                | Anisole                       |                  | 35.10 | 32.09 | 29.08 |       |
| C <sub>7</sub> H <sub>9</sub> N                | <i>N</i> -Methylaniline       |                  | 36.90 | 34.47 | 32.05 |       |
| C <sub>7</sub> H <sub>9</sub> N                | 2,3-Dimethylpyridine          |                  | 32.71 | 30.04 | 27.36 |       |
| C <sub>7</sub> H <sub>9</sub> N                | Benzylamine                   |                  | 39.30 | 36.27 | 33.23 |       |
| C <sub>7</sub> H <sub>14</sub>                 | Methylcyclohexane             | 24.98            | 23.29 | 20.46 |       |       |
| C <sub>7</sub> H <sub>14</sub>                 | 1-Heptene                     | 21.29            | 19.80 | 17.33 | 14.85 |       |
| C <sub>7</sub> H <sub>14</sub> O               | 2-Heptanone                   |                  | 26.12 | 23.48 |       |       |
| C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>  | Pentyl acetate                | 26.67            | 25.17 | 22.69 | 20.20 | 17.72 |
| C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>  | Heptanoic acid                |                  | 27.76 | 25.64 |       |       |
| C <sub>7</sub> H <sub>16</sub>                 | Heptane                       | 21.12            | 19.65 | 17.20 | 14.75 |       |
| C <sub>7</sub> H <sub>16</sub>                 | 3-Methylhexane                | 20.76            | 19.31 | 16.88 | 14.46 |       |
| C <sub>8</sub> H <sub>8</sub> O                | Acetophenone                  |                  | 39.04 | 36.15 | 33.27 |       |
| C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>   | Methyl benzoate               |                  | 37.17 | 34.25 | 31.32 |       |
| C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>   | Methyl salicylate             | 40.98            | 39.22 | 36.28 | 33.35 | 30.41 |
| C <sub>8</sub> H <sub>10</sub>                 | Ethylbenzene                  | 30.39            | 28.75 | 26.01 | 23.28 | 20.54 |
| C <sub>8</sub> H <sub>10</sub>                 | <i>o</i> -Xylene              | 31.41            | 29.76 | 27.01 | 24.25 | 21.50 |
| C <sub>8</sub> H <sub>10</sub>                 | <i>m</i> -Xylene              | 30.13            | 28.47 | 25.71 | 22.95 | 20.19 |
| C <sub>8</sub> H <sub>10</sub>                 | <i>p</i> -Xylene              |                  | 28.01 | 25.32 | 22.64 | 19.95 |
| C <sub>8</sub> H <sub>10</sub> O               | Phenetole                     |                  | 32.41 | 29.65 | 26.89 |       |
| C <sub>8</sub> H <sub>11</sub> N               | <i>N,N</i> -Dimethylaniline   |                  | 35.52 | 32.90 | 30.27 |       |
| C <sub>8</sub> H <sub>11</sub> N               | <i>N</i> -Ethylaniline        |                  | 36.33 | 33.65 | 30.98 |       |
| C <sub>8</sub> H <sub>16</sub>                 | Ethylcyclohexane              | 26.73            | 25.15 | 22.51 |       |       |
| C <sub>8</sub> H <sub>18</sub>                 | Octane                        | 22.57            | 21.14 | 18.77 | 16.39 | 14.01 |
| C <sub>8</sub> H <sub>18</sub>                 | 2,5-Dimethylhexane            | 20.77            | 19.40 | 17.12 | 14.84 | 12.56 |
| C <sub>8</sub> H <sub>18</sub> O               | 1-Octanol                     | 28.30            | 27.10 | 25.12 |       |       |
| C <sub>8</sub> H <sub>19</sub> N               | Dibutylamine                  |                  | 24.12 | 21.74 | 19.36 |       |
| C <sub>8</sub> H <sub>19</sub> N               | Diisobutylamine               |                  | 21.72 | 19.44 | 17.16 |       |
| C <sub>9</sub> H <sub>7</sub> N                | Quinoline                     | 44.19            | 42.59 | 39.94 | 37.28 | 34.62 |
| C <sub>9</sub> H <sub>12</sub>                 | Cumene                        | 29.27            | 27.69 | 25.05 | 22.42 | 19.78 |
| C <sub>9</sub> H <sub>12</sub>                 | 1,2,4-Trimethylbenzene        | 30.74            | 29.20 | 26.64 | 24.07 | 21.51 |
| C <sub>9</sub> H <sub>12</sub>                 | Mesitylene                    | 28.89            | 27.55 | 25.31 | 23.07 | 20.82 |
| C <sub>9</sub> H <sub>18</sub> O               | 5-Nonanone                    |                  | 26.28 | 23.85 |       |       |
| C <sub>9</sub> H <sub>20</sub>                 | Nonane                        | 23.79            | 22.38 | 20.05 | 17.71 | 15.37 |
| C <sub>9</sub> H <sub>20</sub> O               | 1-Nonanol                     | 29.03            | 27.89 | 26.00 | 24.10 | 22.20 |
| C <sub>10</sub> H <sub>12</sub>                | 1,2,3,4-Tetrahydronaphthalene |                  | 33.17 | 30.78 | 28.40 |       |
| C <sub>10</sub> H <sub>22</sub>                | Decane                        | 24.75            | 23.37 | 21.07 | 18.77 | 16.47 |
| C <sub>10</sub> H <sub>22</sub> O              | 1-Decanol                     | 29.61            | 28.51 | 26.68 | 24.85 | 23.02 |
| C <sub>11</sub> H <sub>24</sub>                | Undecane                      | 25.56            | 24.21 | 21.96 | 19.70 | 17.45 |
| C <sub>12</sub> H <sub>10</sub> O              | Diphenyl ether                |                  | 26.75 | 24.80 |       |       |
| C <sub>12</sub> H <sub>27</sub> N              | Tributylamine                 |                  | 24.39 | 22.32 | 20.24 |       |
| C <sub>13</sub> H <sub>28</sub>                | Tridecane                     | 26.86            | 25.55 | 23.37 | 21.19 | 19.01 |
| C <sub>14</sub> H <sub>12</sub> O <sub>2</sub> | Benzyl benzoate               | 44.47            | 42.82 | 40.06 | 37.31 | 34.55 |
| C <sub>14</sub> H <sub>30</sub>                | Tetradecane                   | 27.43            | 26.13 | 23.96 | 21.78 | 19.61 |
| C <sub>16</sub> H <sub>34</sub>                | Hexadecane                    |                  | 27.05 | 24.91 | 22.78 | 20.64 |
| C <sub>18</sub> H <sub>38</sub>                | Octadecane                    |                  | 27.87 | 25.77 | 23.66 | 21.55 |