

**Table 3**  
**Flash Points, Boiling Points, Ignition Temperatures, and Flammable**  
**Limits of Some Common Flammable Laboratory Chemicals**

| Chemical            | Class | Flash Point | Boiling Point | Ignition Temperature | Flammable Limit (Percent by volume air) |       |
|---------------------|-------|-------------|---------------|----------------------|---|-------|
|                     |       | (°C)        | (°C)          | (°C)                 | Lower                                   | Upper |
| Acetaldehyde        | IA    | -37.8       | 21.1          | 175.0                | 4.0                                     | 60.0  |
| Acetone             | IB    | -17.8       | 56.7          | 465.0                | 2.6                                     | 12.8  |
| Benzene             | IB    | -11.1       | 80.0          | 560.0                | 1.3                                     | 7.1   |
| Carbon disulfide    | IB    | -30.0       | 46.1          | 80.0                 | 1.3                                     | 50.0  |
| Cyclohexane         | IB    | -20.0       | 81.7          | 245.0                | 1.3                                     | 8.0   |
| Diethyl ether       | IA    | -45.0       | 35.0          | 160.0                | 1.9                                     | 36.0  |
| Ethyl alcohol       | IB    | 12.8        | 78.3          | 365.0                | 3.3                                     | 19.0  |
| <i>n</i> -Heptane   | IB    | -3.9        | 98.3          | 215.0                | 1.05                                    | 6.7   |
| <i>n</i> -Hexane    | IB    | -21.7       | 68.9          | 225.0                | 1.1                                     | 7.5   |
| Isopropyl alcohol   | IB    | 11.7        | 82.8          | 398.9                | 2.0                                     | 12.0  |
| Methyl alcohol      | IB    | 11.1        | 64.9          | 385.0                | 6.7                                     | 36.0  |
| Methyl ethyl ketone | IB    | -6.1        | 80.0          | 515.6                | 1.8                                     | 10.0  |
| Pentane             | IA    | -40.0       | 36.1          | 260.0                | 1.5                                     | 7.8   |
| Styrene             | IB    | 32.2        | 146.1         | 490.0                | 1.1                                     | 6.1   |
| Toluene             | IB    | 4.4         | 110.6         | 480.0                | 1.2                                     | 7.1   |
| <i>p</i> -Xylene    | IC    | 27.2        | 138.3         | 530.0                | 1.1                                     | 7.0   |

Class II is any liquid that has a flash point at or above 37.8°C and below 60°C

Class IIIA is any liquid that has a flash point at or above 60°C but below 93°C

Class IIIB is any liquid that has a flash point at or above 93°C