

| The Freezing and Boiling Points of Some Substances |                        |      |               |       |
|----------------------------------------------------|------------------------|------|---------------|-------|
| Substance                                          | Freezing/Melting Point |      | Boiling Point |       |
|                                                    | °F                     | °C   | °F            | °C    |
| water                                              | 32                     | 0    | 212           | 100   |
| aluminum                                           | 1,220                  | 660  | 4,473         | 2,467 |
| iron                                               | 1,762                  | 961  | 4,014         | 2,212 |
| alcohol                                            | -202                   | -130 | 173           | 78    |

### Melting Points and Boiling Points of Molecular and Ionic Compounds

| Substance          | Formula                         | Melting Point (°C) | Boiling Point (°C) |
|--------------------|---------------------------------|--------------------|--------------------|
| Methane            | CH <sub>4</sub>                 | -182.4             | -161.5             |
| Rubbing alcohol    | C <sub>3</sub> H <sub>8</sub> O | -89.5              | 82.4               |
| Water              | H <sub>2</sub> O                | 0                  | 100                |
| Zinc chloride      | ZnCl <sub>2</sub>               | 290                | 732                |
| Magnesium chloride | MgCl <sub>2</sub>               | 714                | 1,412              |
| Sodium chloride    | NaCl                            | 800.7              | 1,465              |

Molecular compound
  Ionic compound

| Element   | Melting point (°C) | Boiling point (°C) |
|-----------|--------------------|--------------------|
| Copper    | 1083               | 2567               |
| Magnesium | 650                | 1107               |
| Oxygen    | -218.4             | -183               |
| Carbon    | 3500               | 4827               |
| Helium    | -272               | -268.6             |
| Sulphur   | 112.8              | 444.6              |