

1.13 Li, lithium; F, fluorine; P, phosphorus; Cu, copper; As, arsenic; Zn, zinc; Cl, chlorine; Pt, platinum; Mg, magnesium; U, uranium; Al, aluminum; Si, silicon; Ne, neon.

1.14 (a) K (b) Sn (c) Cr (d) B (e) Ba
(f) Pu (g) S (h) Ar (i) Hg

1.15 (a) element (b) compound (c) element (d) compound

1.16 (a) homogeneous mixture (b) element (c) compound
(d) homogeneous mixture (e) heterogeneous mixture (f) homogeneous mixture
(g) heterogeneous mixture

1.21
$$\text{density} = \frac{\text{mass}}{\text{volume}} = \frac{586 \text{ g}}{188 \text{ mL}} = 3.12 \text{ g/mL}$$

1.22 **Strategy:** We are given the density and volume of a liquid and asked to calculate the mass of the liquid. Rearrange the density equation, Equation (1.1) of the text, to solve for mass.

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

Solution:

$$\text{mass} = \text{density} \times \text{volume}$$

$$\text{mass of ethanol} = \frac{0.798 \text{ g}}{1 \text{ mL}} \times 17.4 \text{ mL} = 13.9 \text{ g}$$

1.23
$$^{\circ}\text{C} = (^{\circ}\text{F} - 32^{\circ}\text{F}) \times \frac{5^{\circ}\text{C}}{9^{\circ}\text{F}}$$

(a)
$$^{\circ}\text{C} = (95 - 32)^{\circ}\text{F} \times \frac{5^{\circ}\text{C}}{9^{\circ}\text{F}} = 35^{\circ}\text{C}$$

(b)
$$^{\circ}\text{C} = (12 - 32)^{\circ}\text{F} \times \frac{5^{\circ}\text{C}}{9^{\circ}\text{F}} = -11^{\circ}\text{C}$$

(c)
$$^{\circ}\text{C} = (102 - 32)^{\circ}\text{F} \times \frac{5^{\circ}\text{C}}{9^{\circ}\text{F}} = 39^{\circ}\text{C}$$

(d)
$$^{\circ}\text{C} = (1852 - 32)^{\circ}\text{F} \times \frac{5^{\circ}\text{C}}{9^{\circ}\text{F}} = 1011^{\circ}\text{C}$$

(e)
$$^{\circ}\text{F} = \left(^{\circ}\text{C} \times \frac{9^{\circ}\text{F}}{5^{\circ}\text{C}}\right) + 32^{\circ}\text{F}$$

$$^{\circ}\text{F} = \left(-273.15^{\circ}\text{C} \times \frac{9^{\circ}\text{F}}{5^{\circ}\text{C}}\right) + 32^{\circ}\text{F} = -459.67^{\circ}\text{F}$$

1.24 **Strategy:** Find the appropriate equations for converting between Fahrenheit and Celsius and between Celsius and Fahrenheit given in Section 1.7 of the text. Substitute the temperature values given in the problem into the appropriate equation.

(a) Conversion from Fahrenheit to Celsius.

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32^{\circ}\text{F}) \times \frac{5^{\circ}\text{C}}{9^{\circ}\text{F}}$$

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