

82. Additional Questions

1. The percent by mass composition of a salt was found to be 76.58% potassium, 6.48% sulfur, and 16.94% oxygen. What is the empirical formula of this salt?

$$56.58g \text{ of K} \left(\frac{\text{molar K}}{39.098 \text{ g K}} \right) = 1.447 \text{ molar K} \qquad \frac{1.447 \text{ molar K}}{0.723 \text{ molar S}} = 2$$

$$6.48g \text{ of S} \left(\frac{\text{molar S}}{32.065 \text{ g S}} \right) = 0.202 \text{ molar S} \qquad \frac{0.202 \text{ molar S}}{0.202 \text{ molar S}} = 1$$

$$16.94g \text{ of O} \left(\frac{\text{molar O}}{16.000 \text{ g O}} \right) = 1.059 \text{ molar O} \qquad \frac{1.059 \text{ molar O}}{0.202 \text{ molar S}} = 5$$

$$\text{empirical formula} = \text{K}_2\text{S}_2\text{O}_{10}$$

2. A compound consisting iron and sulfur was formed by combining 3.233 g of iron with 1.426 g of sulfur. What is the empirical formula of the compound?

$$3.233g \text{ of Fe} \left(\frac{\text{molar Fe}}{55.845 \text{ g Fe}} \right) = 0.05790 \text{ molar Fe} \qquad \frac{0.05790 \text{ molar Fe}}{0.05790 \text{ molar Fe}} = 1 + 2 = 2$$

$$1.426g \text{ of S} \left(\frac{\text{molar S}}{32.067 \text{ g S}} \right) = 0.04447 \text{ molar S} \qquad \frac{0.04447 \text{ molar S}}{0.05790 \text{ molar Fe}} = 1.5 + 2 = 3$$

$$\text{empirical formula} = \text{Fe}_2\text{S}_3$$

3. Propylene has a molar mass of 42.08 g/mole and is composed of 84.3% hydrogen and 15.7% carbon. What is the molecular formula of propylene?

$$14.3g \text{ of H} \left(\frac{\text{molar H}}{1.008 \text{ g H}} \right) = 14.15 \text{ molar H} \qquad \frac{14.15 \text{ molar H}}{7.15 \text{ molar C}} = 2$$

$$15.7g \text{ of C} \left(\frac{\text{molar C}}{12.011 \text{ g C}} \right) = 1.307 \text{ molar C} \qquad \frac{1.307 \text{ molar C}}{1.307 \text{ molar C}} = 1$$

$$\text{empirical formula} = \text{CH}_2$$

$$\text{CH}_2 = 12.011 + 2(1.008) = 14.027 \qquad \frac{42.08}{14.027} = 3$$

$$\text{molecular formula} = \text{C}_3\text{H}_6$$

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