

## 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?

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

$$6.48g \text{ of S} \left( \frac{\text{molar S}}{32.065 \text{ g S}} \right) = 0.202 \text{molar S} \qquad \frac{0.202 \text{molar S}}{0.723 \text{molar S}} = 1$$

$$16.94g \text{ of O} \left( \frac{\text{molar O}}{16.000 \text{ g O}} \right) = 1.059 \text{molar O} \qquad \frac{1.059 \text{molar O}}{0.723 \text{molar S}} = 2$$

empirical formula =  $K_2S_2O_4$

2. A compound consisting iron and sulfur was formed by combining 3.235 g of iron with 1.426 g of sulfur. What is the empirical formula of the compound?

$$3.235g \text{ of Fe} \left( \frac{\text{molar Fe}}{55.845 \text{ g Fe}} \right) = 0.05793 \text{molar Fe} \qquad \frac{0.05793 \text{molar Fe}}{0.03996 \text{molar S}} = 1 + 2 = 3$$

$$1.426g \text{ of S} \left( \frac{\text{molar S}}{32.065 \text{ g S}} \right) = 0.04447 \text{molar S} \qquad \frac{0.04447 \text{molar S}}{0.03996 \text{molar Fe}} = 1.1 + 2 = 3$$

empirical formula =  $Fe_3S_3$

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?

$$14.3g \text{ of H} \left( \frac{\text{molar H}}{1.008 \text{ g H}} \right) = 14.15 \text{molar H} \qquad \frac{14.15 \text{molar H}}{7.125 \text{molar C}} = 2$$

$$15.7g \text{ of C} \left( \frac{\text{molar C}}{12.011 \text{ g C}} \right) = 1.307 \text{molar C} \qquad \frac{1.307 \text{molar C}}{7.125 \text{molar C}} = 1$$

empirical formula =  $CH_2$

$$CH_2 = 12.011 + 2(1.008) = 14.027 \qquad \frac{42.08}{14.027} = 3$$

molecular formula =  $C_3H_6$

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**L Manion**

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