Chapter 10 Chemical Quantities 107

Calculate the percent composition of these compounds.
 a. ethane (C₂H_e)
 b. sodium bisulfate (NaHSO₄)

a. ethane (C₂H₆)

Analyze

Step 1. List the knowns and the unknowns.
Knowns

mass of C in one mole ethane = 2 × 12.0 g = 24.0 g

mass of H in one mole ethane - 6 × 1.0 g - 6.0g

molar mass of C₂H₆ = 24.0 g + 6.0 g = 30.0 g

Unknowns

percent C = ? %

percent H = ? %

Because no masses are given, the percent composition can be determined based on the molar mass of the substance. The percent of an element in a compound is the mass of the element in the compound divided by the mass of the compound. To express the ratio as a percent, the ratio is multiplied by 100%.

Calculate

Step 2. Solve for the unknown.

percent C = $\frac{24.0 \text{ g C}}{30.0 \text{ g compound}} \times 100\% = \frac{80.0\% \text{ C}}{}$

percent H = $\frac{6.0 \text{ g H}}{30.0 \text{ g compound}} \times 100\% = _____ 20.0\% \text{ H}$

30.0 g compound

Evaluate

Step 3. Does the result make sense?

The percents of the elements of the compound add up to 100%.

80.0% + 20.0% = 100%

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E Durkheim

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