Finding the Percent Composition

Percent Composition - The percentage (by mass) of each element in a compound.

Example 1:

Find the percent composition of red candies in a bag of 200 candies, if there are 26 red, and 174 blue candies.

Total Candies: 200

Red Candies: 26

Blue Candies: 174

26 red	× 100	
200 total	A IUU	

Formula:

Part x 100 Total

Example 2:

Find the percent composition of MgCl₂.

- Total mass MgCl2: 95.21 g
- Mass of Mg: 24.31 g
- 70.91 g Mass of Cl2:

Example 3:

Find the percent composition of H2SO4.

- Total mass H₂SO₄: 98.08 g
- 2.02 g Mass of H₂:
- Mass of S: 32.07 g
- Mass of O4: 64.00 g

$$\frac{2.02 \text{ g}}{98.08 \text{ g}} \times 100$$

$$\frac{2.02 \,\mathrm{g}}{98.08 \,\mathrm{g}} \times 100 = 2.06 \,\% \,\mathrm{H}_2$$

Percent Composition Answers

Richard S. Moog, John J. Farrell

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