

Molar Mass/% Composition

Name _____

Calculate the formula mass for each of the following formulas:

1) NaCl - sodium chloride

2) CuCl₂ - Copper(II) chloride

3) KMnO₃ - potassium permanganate

4) H₂SO₄ - sulfuric acid

Calculate the formula mass and % composition for each of the following:

5) NaHCO₃ - sodium bicarbonate

6) Ca(OH)₂ - calcium hydroxide

7) Al(NO₃)₃ - aluminum nitrate

8) (NH₄)₂SO₄ - ammonium sulfate

Answers: Molar Mass

% composition:

- | | | |
|-----------------|-----------------|--|
| 1) 58.44 g/mol | 2) 134.45 g/mol | 5) %Na = 27.37; %H = 1.200; %C = 14.30; %O = 57.14 |
| 3) 142.04 g/mol | 4) 98.09 g/mol | 6) %Ca = 54.09; %O = 43.19; %H = 2.721 |
| 5) 84.01 g/mol | 6) 74.10 g/mol | 7) %Al = 12.67; %N = 19.73; %O = 67.60 |
| 7) 213.01 g/mol | 8) 132.15 g/mol | 8) %N = 21.20; %H = 6.102; %S = 24.27; %O = 48.43 |