PERCENTAGE COMPOSITION

Percentage composition compares the mass of one part of a substance to the mass of the whole.

Calculating percentage composition:

- Do a formula/molecular mass calculation.
- Divide the total atomic mass for each element by the total formula mass of the compound.

  Example: Calculate the percentage composition of C_2H_5OH

  C = [(2 x 12.01) / 46.08] x 100 =

  H = [(6 x 1.01) / 46.08] x 100 =

  O = [(1 x 16.00) / 46.08] x 100 =

Homework:

Calculate the percentage composition of:

1. CaO
2. H_2S
3. CuS
4. $CaSO_4$
5. NH_4NO_3
6. $HMnO_4$
7. $Ca(HCO_3)_2$
8. BaO_2
9. H_2SO_4
10. $Al_2(CO_3)_3$
11. HNO_3
12. Na_2CO_3
13. $C_6H_8N_2O_2S$
14. $C_6H_{12}O_6$
15. CH_3OH