

1. What is the percent composition of ammonium carbonate?
2. Determine the percent of iron in ferrous sulfide and ferric sulfide.
3. Calculate the mass of chromium in a 5.00 g sample of chromic nitrate.
4. If a compound only contains lead and oxygen (as oxide ion only) and contains 13.4% oxygen, what is the formula of the compound?
5. A compound contains 29.4% calcium. Is the compound calcium cyanide, calcium sulfate, or calcium iodide?
6. What percentage of water is in cobaltous chloride hexahydrate?
7. Determine the mass in grams of water that would evaporate from 15.0 g of magnesium sulfate heptahydrate.

Answers

1. 29.2% N, 8.41 % H, 12.5% C, 49.9% O
2. 63.5% Fe and 53.7% Fe, respectively
3. 1.09 g Cr
4. PbO_2
5. CaSO_4
6. 45.4% H_2O
7. 7.68 g H_2O