

BEST CHEMISTRY CALCULATORS FOR HOMEWORK

PERCENT COMPOSITION WORKSHEET

Calculate the percent composition of each element in the following compounds:

1. H₂O (Water)
2. NaCl (Table Salt)
3. C₆H₁₂O₆ (Glucose)
4. CaCO₃ (Calcium Carbonate)
5. HCl (Hydrochloric Acid)
6. KNO₃ (Potassium Nitrate)
7. Fe₂O₃ (Iron(III) Oxide)
8. CO₂ (Carbon Dioxide)
9. NH₃ (Ammonia)
10. C₂H₅OH (Ethanol)
11. Mg(OH)₂ (Magnesium Hydroxide)
12. NaHCO₃ (Sodium Bicarbonate)
13. CH₄ (Methane)
14. CuSO₄ (Copper(II) Sulfate)
15. Al₂(SO₄)₃ (Aluminum Sulfate)

Answers:

1. H₂O: H: 11.19%, O: 88.81%
2. NaCl: Na: 39.34%, Cl: 60.66%
3. C₆H₁₂O₆: C: 40.00%, H: 6.71%, O: 53.29%
4. CaCO₃: Ca: 40.04%, C: 12.00%, O: 47.96%
5. HCl: H: 2.76%, Cl: 97.24%
6. KNO₃: K: 38.67%, N: 13.85%, O: 47.48%
7. Fe₂O₃: Fe: 69.94%, O: 30.06%
8. CO₂: C: 27.29%, O: 72.71%
9. NH₃: N: 82.24%, H: 17.76%
10. C₂H₅OH: C: 52.14%, H: 13.13%, O: 34.73%
11. Mg(OH)₂: Mg: 41.67%, O: 47.74%, H: 10.59%
12. NaHCO₃: Na: 27.37%, H: 1.20%, C: 14.30%, O: 57.13%
13. CH₄: C: 74.87%, H: 25.13%
14. CuSO₄: Cu: 39.81%, S: 20.09%, O: 40.10%
15. Al₂(SO₄)₃: Al: 15.77%, S: 28.12%, O: 56.11%