

Download File PDF The Mole And Volume Worksheet Answer Key

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so many fake sites. this is the first one which worked! Many thanks

Chemistry: Molar Mass and Percentage Composition

Calculate the molar masses and percentage composition of each of the following compounds. Show your work and always include units.

1. Cu_2P $\frac{2(63.55)}{2(63.55) + 30.97} \times 100 = 66\% \text{ Cu}$ $100 - 66 = 34\% \text{ P}$

2. Cu_2O $\frac{2(63.55)}{2(63.55) + 15.99} \times 100 = 80\% \text{ Cu}$ $\frac{15.99}{2(63.55) + 15.99} \times 100 = 20\% \text{ O}$

3. Na_2SO_4 $\frac{2(22.99)}{2(22.99) + 32.07 + 4(16.00)} \times 100 = 43\% \text{ Na}$ $\frac{32.07}{2(22.99) + 32.07 + 4(16.00)} \times 100 = 23\% \text{ S}$ $\frac{4(16.00)}{2(22.99) + 32.07 + 4(16.00)} \times 100 = 34\% \text{ O}$

4. CaSO_4 $\frac{40.08}{40.08 + 32.07 + 4(16.00)} \times 100 = 29\% \text{ Ca}$ $\frac{32.07}{40.08 + 32.07 + 4(16.00)} \times 100 = 23\% \text{ S}$ $\frac{4(16.00)}{40.08 + 32.07 + 4(16.00)} \times 100 = 48\% \text{ O}$

5. NH_4NO_3 $\frac{14.01}{14.01 + 4(1.01) + 14.01 + 3(16.00)} \times 100 = 35\% \text{ N}$ $\frac{14.01}{14.01 + 4(1.01) + 14.01 + 3(16.00)} \times 100 = 35\% \text{ N}$ $\frac{3(16.00)}{14.01 + 4(1.01) + 14.01 + 3(16.00)} \times 100 = 30\% \text{ O}$

6. ZnPO_4 $\frac{65.38}{65.38 + 30.97 + 4(16.00)} \times 100 = 37\% \text{ Zn}$ $\frac{30.97}{65.38 + 30.97 + 4(16.00)} \times 100 = 16\% \text{ P}$ $\frac{4(16.00)}{65.38 + 30.97 + 4(16.00)} \times 100 = 47\% \text{ O}$

7. MgSO_4 $\frac{24.31}{24.31 + 30.97 + 4(16.00)} \times 100 = 16\% \text{ Mg}$ $\frac{30.97}{24.31 + 30.97 + 4(16.00)} \times 100 = 19\% \text{ S}$ $\frac{4(16.00)}{24.31 + 30.97 + 4(16.00)} \times 100 = 65\% \text{ O}$

8. KCl $\frac{39.10}{39.10 + 35.45} \times 100 = 52\% \text{ K}$ $100 - 52 = 48\% \text{ Cl}$

Answers: 1. 157.07 g/mol, 66% Cu, 34% P 2. 143.09 g/mol, 80% Cu, 20% O 3. 142.04 g/mol, 43% Na, 23% S, 34% O 4. 136.14 g/mol, 29% Ca, 23% S, 48% O 5. 80.04 g/mol, 35% N, 35% N, 30% O 6. 162.04 g/mol, 37% Zn, 16% P, 47% O 7. 146.07 g/mol, 16% Mg, 19% S, 65% O 8. 74.55 g/mol, 52% K, 48% Cl

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