

Name Key Period _____

Worksheet: Calculating Empirical & Molecular Formulas

1. The empirical formula for the compound having the formula $H_4C_2O_4$ is:

- [A] C_2H_2 [B] CO_2H [C] COH [D] $C_2O_4H_4$ [E] COH_2

2. Calculate the empirical formula of a compound that is 85.6% C and 14.4% H (by mass).

- [A] CH_2 [B] CH [C] C_2H_4 [D] C_2H_6 [E] C_3H_8

$$C: \frac{85.6}{12.01} = 7.12 \quad H: \frac{14.4}{1.01} = 14.25 = \frac{14.25}{7.12} = 2$$

3. A compound is analyzed and found to contain 12.1% carbon, 16.2% oxygen, and 71.7% chlorine (by mass). Calculate the empirical formula of this compound.

- [A] $COCl_2$ [B] CO_2Cl_2 [C] CO_2Cl [D] $COCH$ [E] $COCl$

$$C: \frac{12.1}{12.01} = 1 \quad O: \frac{16.2}{16.00} = 1 \quad Cl: \frac{71.7}{35.45} = 2$$

4. A compound contains 40.0% carbon, 6.7% hydrogen, and 53.3% oxygen (by mass). Calculate the empirical formula.

- [A] C_2H_2O [B] CH_2O [C] CH_4O [D] $C_2H_4O_2$ [E] C_2H_4O

$$C: \frac{40.0}{12.01} = 3.33 = 1 \quad H: \frac{6.7}{1.01} = 6.63 = 2 \quad O: \frac{53.3}{16.0} = 3.33 = 1$$

5. A compound contains 25.94% N and 74.06% O (by mass). What is the empirical formula?

$$\frac{25.94g N}{14.01} = \frac{1.85}{1.84} = 1 \times 2 = 2$$

$$\frac{74.06g O}{16.00} = \frac{4.63}{1.84} = 2.5 \times 2 = 5$$



6. Determine the empirical formula of a compound containing 54.2% F and 45.8% S (by mass).

$$\frac{54.2g F}{19.00g/mol} = \frac{2.85}{1.43} mol F = 1.99 \sim 2$$

$$\frac{45.8g S}{32.07g/mol} = \frac{1.43}{1.43} mol S = 1$$



7. A compound has 40.68% carbon, 5.12% hydrogen, and 54.20% oxygen (by mass). Calculate its empirical formula.

$$\frac{40.68g C}{12.01g/mol} = \frac{3.387}{3.387} = 1 \times 2 = 2$$

$$\frac{5.12g H}{1.01g/mol} = \frac{5.069}{3.387} = 1.496 \times 2 = 3$$

$$\frac{54.20g O}{16.00g/mol} = \frac{3.387}{3.387} = 1 \times 2 = 2$$



8. A 7.33-g sample of lanthanum, La, combines with oxygen to give 10.29 g of the oxide. Calculate the empirical formula of this oxide.

$$10.29g - 7.33g La = 2.96g O$$

$$\frac{7.33g La}{138.91g/mol} = .0527 \quad \frac{2.96g O}{16.00g/mol} = .1850$$

$$\frac{.1850}{.0527} = 3.5 \times 2 = 7$$



9. Calculate the molecular formula of a compound with the empirical formula CH_2O and a molar mass of 150 g/mol.

- [A] $C_7H_6O_3$ [B] $C_5H_{10}O_5$ [C] $C_3H_4O_3$ [D] $C_4H_6O_4$ [E] $C_6H_{12}O_6$

$$30 \quad 150 \div 30 = 5$$

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IM Harris



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