

Empirical Formula Practice 1.0 – Answer Key

Objective: - Calculate the empirical formula of a compound given experimental data

Directions: Answer the following empirical formula questions. Show all work! Include units!

1. Dibutyl succinate is an insect repellent used against household ants and roaches. Its composition is 62.58% C, 9.83% H and 27.79% O. Find its empirical formula. $[C_{16}H_{22}O_4]$

$$C: = 5.210658 \text{ mol} + 1.736875 = 3.0000 \quad = 3 \quad \times 2 = 6$$

$$H: = 9.534653 \text{ mol} + 1.736875 = 5.4895 \quad = 5.5 \quad \times 2 = 11$$

$$O: = 1.736875 \text{ mol} + 1.736875 = 1 \quad = 1 \quad \times 2 = 2$$



2. The compound adrenaline contains 56.7% C, 6.56% H, 8.28% N, and 28.37% O by mass. What is the empirical formula for adrenaline?

$$C: = 4.721066 \text{ mol} + 0.591006 = 7.9882 \quad = 8$$

$$H: = 6.495050 \text{ mol} + 0.591006 = 10.9698 \quad = 11$$

$$N: = 0.591006 \text{ mol} + 0.591006 = 1 \quad = 1$$

$$O: = 1.773125 \text{ mol} + 0.591006 = 3.0002 \quad = 3$$



3. A sample of urea contains 0.480 g of C, 0.161 g of H, 1.121 g of N, and 0.640 g of O. What is the empirical formula of urea?

$$C: = 0.039967 \text{ mol} + 0.039967 = 1 \quad = 1$$

$$H: = 0.159406 \text{ mol} + 0.039967 = 3.9664 \quad = 4$$

$$N: = 0.080014 \text{ mol} + 0.039967 = 2.002 \quad = 2$$

$$O: = 0.040000 \text{ mol} + 0.039967 = 1.0008 \quad = 1$$



Empirical Formula Key Answers

Julia Schneider



Empirical Formula Key Answers:

Empirical Formula Key Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Empirical Formula Key Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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