

**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 Formulas Answer Key

**Liyong Dong**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Empirical Formulas Answer Key**

1. Understanding the eBook Empirical Formulas Answer Key
  - The Rise of Digital Reading Empirical Formulas Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Empirical Formulas Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Empirical Formulas Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Empirical Formulas Answer Key
  - Personalized Recommendations
  - Empirical Formulas Answer Key User Reviews and Ratings
  - Empirical Formulas Answer Key and Bestseller Lists
5. Accessing Empirical Formulas Answer Key Free and Paid eBooks
  - Empirical Formulas Answer Key Public Domain eBooks
  - Empirical Formulas Answer Key eBook Subscription Services

- Empirical Formulas Answer Key Budget-Friendly Options
- 6. Navigating Empirical Formulas Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Empirical Formulas Answer Key Compatibility with Devices
  - Empirical Formulas Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Empirical Formulas Answer Key
  - Highlighting and Note-Taking Empirical Formulas Answer Key
  - Interactive Elements Empirical Formulas Answer Key
- 8. Staying Engaged with Empirical Formulas Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Empirical Formulas Answer Key
- 9. Balancing eBooks and Physical Books Empirical Formulas Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Empirical Formulas Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Empirical Formulas Answer Key
  - Setting Reading Goals Empirical Formulas Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Empirical Formulas Answer Key
  - Fact-Checking eBook Content of Empirical Formulas Answer Key
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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