

## Empirical and Molecular Formula Worksheet ANSWER KEY

Write the empirical formula for the following compounds.

- 1)  $C_6H_6$     **CH**
- 6)  $C_8H_{12}$      **$C_4H_6$**
- 7)  $WO_2$      **$WO_2$**
- 8)  $C_2H_6O_2$      **$CH_3O$**
- 9)  $X_{10}Y_{12}$      **$X_5Y_6$**
- 6) A compound with an empirical formula of  $C_2OH_4$  and a molar mass of 88 grams per mole. What is the molecular formula of this compound?     **$C_8O_4H_{16}$**  
- 7) A compound with an empirical formula of  $C_3H_4O$  and a molar mass of 136 grams per mole. What is the molecular formula of this compound?     **$C_9H_{12}O_3$**  
- 8) A compound with an empirical formula of  $CFBrO$  and a molar mass of 253.8 grams per mole. What is the molecular formula of this compound?     **$C_7F_7Br_7O_7$**  
- 9) A compound with an empirical formula of  $C_3H_5N$  and a molar mass of 46 grams per mole. What is the molecular formula of this compound?     **$C_3H_5N$**  
- 10) A well-known reagent in analytical chemistry, dimethylglyoxime, has the empirical formula  $C_2H_5NO$ . If its molar mass is 116.1 g/mol, what is the molecular formula of the compound?     **$C_6H_{10}N_2O_2$**  
12. A certain blue solid contains 36.84% N and 63.16% O. What is the empirical formula of this compound?    **The ratios are  $N_{1.50}O_{1.50}$ . Since 1.50 is not close to a whole number, we multiply *both* subscripts by 2. The empirical formula is thus  $N_2O_2$ . (The name is dinitrogen trioxide.)** 
13. A sample of indium chloride weighing 0.5000 g is found to contain 0.2404 g of chlorine. What is the empirical formula of the indium compound?     **$InCl_2$**  
14. An unknown compound was found to have a percent composition as follows: 47.0 % potassium, 14.5 % carbon, and 38.5 % oxygen. What is its empirical formula? If the true molar mass of the compound is 166.22 g/mol, what is its molecular formula?     **$K_2C_3O_4$**  
15. Rubbing alcohol was found to contain 60.0 % carbon, 13.4 % hydrogen, and the remaining mass was due to oxygen. What is the empirical formula of rubbing alcohol?     **$C_3H_8O$**  

# Molecular Formula Answer Key

**R Sandford**



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## **Table of Contents Molecular Formula Answer Key**

1. Understanding the eBook Molecular Formula Answer Key
  - The Rise of Digital Reading Molecular Formula Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Molecular Formula 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 Molecular Formula Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Molecular Formula Answer Key
  - Personalized Recommendations
  - Molecular Formula Answer Key User Reviews and Ratings
  - Molecular Formula Answer Key and Bestseller Lists

5. Accessing Molecular Formula Answer Key Free and Paid eBooks
  - Molecular Formula Answer Key Public Domain eBooks
  - Molecular Formula Answer Key eBook Subscription Services
  - Molecular Formula Answer Key Budget-Friendly Options
6. Navigating Molecular Formula Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Molecular Formula Answer Key Compatibility with Devices
  - Molecular Formula Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Molecular Formula Answer Key
  - Highlighting and Note-Taking Molecular Formula Answer Key
  - Interactive Elements Molecular Formula Answer Key
8. Staying Engaged with Molecular Formula Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Molecular Formula Answer Key
9. Balancing eBooks and Physical Books Molecular Formula Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Molecular Formula Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Molecular Formula Answer Key
  - Setting Reading Goals Molecular Formula Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Molecular Formula Answer Key
  - Fact-Checking eBook Content of Molecular Formula 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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