

## Empirical Formula and Molecular Formula

Lab 6: Molecular Formulas

### Lab 6

Students will determine the empirical formula of a compound by determining the relative mass of components. They will then compare the empirical formula to the molecular formula of the compound. This activity will compare an applied formula to an empirical formula.

### Model 1: Comparison of Percent Composition and Empirical Formula

Compound	Empirical Formula	Molecular Formula	Empirical Formula	Percent Composition (Carbon)	Percent Composition (Hydrogen)
1	ethane	$C_2H_6$	$CH_3$		
2	propane	$C_3H_8$	$CH_2$		
3	ethylene (acetylene)	$C_2H_2$	$CH$		
4	benzene	$C_6H_6$	$CH$		

1. Looking at the table, what patterns can you see? How does the percent composition of the compounds in Model 1. What other information can you use to determine the pattern?
2. Identify the compounds in Model 1 that have the same empirical formula.
3. Identify the compounds in Model 1 that have the same percent composition.
4. Using the compounds in Model 1, suggest an explanation for why compounds with different molecular formulas but the same empirical formula have the same percent composition.
5. For each substance in Model 1, give evidence that the molecular formula and empirical formula are exactly the same. What mathematical operation did you use to determine the molecular formula? Is the molecular formula the same as the empirical formula?

# Empirical Formula And Molecular Formula Pogil Answers

**L Cohen**



## **Empirical Formula And Molecular Formula Pogil Answers:**

## Decoding **Empirical Formula And Molecular Formula Pogil Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Empirical Formula And Molecular Formula Pogil Answers**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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