

1) The empirical formula of a compound represents the lowest whole number mole ratio of component elements.

2) The molecular formula is the actual ratio of elements found with the naturally-occurring sample. This could also equal the empirical formula if the naturally-occurring formula is also in the lowest whole number mole ratio.

3) Molecular =  $C_4H_8N_2O_4$  ← each subscript can be reduced by 2

Empirical =  $C_2H_4N_2O_2$

4) Compound pair B is the only set of compounds with the same empirical formula as

5) To determine the empirical formula, convert each atom's provided mass into moles and find the lowest whole number mole ratio.

$$0.8007 \text{ g C} \times 1 \text{ mol C} / 12.01 \text{ g C} = 0.066669 \text{ mol C}$$

$$0.9333 \text{ g H} \times 1 \text{ mol H} / 1.01 \text{ g H} = 0.92417 \text{ mol H}$$

$$0.2016 \text{ g N} \times 1 \text{ mol N} / 14.01 \text{ g N} = 0.01439 \text{ mol N}$$

moles

$$2.130 \text{ g O} \times 1 \text{ mol O} / 16.00 \text{ g O} = 0.13313 \text{ mol O}$$

divide by the smallest # of

$$0.066669 \text{ mol C} / 0.066617 = 1 \text{ mol C}$$

$$0.92417 \text{ mol H} / 0.066617 = 13.87 \text{ mol H}$$

$$0.01439 \text{ mol N} / 0.066617 = 0.216 \text{ mol N}$$

carbamate

$$0.13313 \text{ mol O} / 0.066617 = 2 \text{ mol O}$$

$CH_{14}O_2$  = empirical formula for

6) Determine the empirical formula first, by assuming that 100g of the sample is available, allowing for 24.27% C → 24.27g C, etc... Use the relative masses of each element to determine moles and find the lowest whole number mole ratio. Then compare the mass of the empirical formula to that of the mass of the molecular formula provided. This comparison will allow you to determine the molecular formula.

$$24.27\% \text{ C} \rightarrow 24.27 \text{ g C} \times 1 \text{ mol C} / 12.01 \text{ g C} = 2.021 \text{ mol C}$$

$$4.07\% \text{ H} \rightarrow 4.07 \text{ g H} \times 1 \text{ mol H} / 1.01 \text{ g H} = 4.037 \text{ mol H}$$

$$71.65\% \text{ Cl} \rightarrow 71.65 \text{ g Cl} \times 1 \text{ mol Cl} / 35.45 \text{ g Cl} = 2.021 \text{ mol Cl}$$

$$2.021 \text{ mol C} / 2.021 = 1 \text{ mol C}$$

$$4.037 \text{ mol H} / 2.021 = 2 \text{ mol H}$$

$$2.021 \text{ mol Cl} / 2.021 = 1 \text{ mol Cl}$$

$CH_2Cl$  = empirical formula

$$\text{Empirical mass of } CH_2Cl \rightarrow C: 12.01 \text{ g} +$$

$$H: 2(1.01 \text{ g}) +$$

$$Cl: 35.45 \text{ g}$$

$$= 49.47 \text{ g}$$

To compare empirical & molecular mass:

$$\text{Molecular mass} / \text{empirical mass} = n \quad n(\text{empirical formula}) = \text{molecular}$$

formula

$$98.95 \text{ g} / 49.47 \text{ g} = 2$$



# Empirical And Molecular Formulas Answer Key

**D Kirk**



## **Empirical And Molecular Formulas Answer Key:**

This book delves into Empirical And Molecular Formulas Answer Key. Empirical And Molecular Formulas Answer Key is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Empirical And Molecular Formulas Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Empirical And Molecular Formulas Answer Key
- Chapter 2: Essential Elements of Empirical And Molecular Formulas Answer Key
- Chapter 3: Empirical And Molecular Formulas Answer Key in Everyday Life
- Chapter 4: Empirical And Molecular Formulas Answer Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Empirical And Molecular Formulas Answer Key. The first chapter will explore what Empirical And Molecular Formulas Answer Key is, why Empirical And Molecular Formulas Answer Key is vital, and how to effectively learn about Empirical And Molecular Formulas Answer Key.
3. In chapter 2, this book will delve into the foundational concepts of Empirical And Molecular Formulas Answer Key. The second chapter will elucidate the essential principles that need to be understood to grasp Empirical And Molecular Formulas Answer Key in its entirety.
4. In chapter 3, the author will examine the practical applications of Empirical And Molecular Formulas Answer Key in daily life. The third chapter will showcase real-world examples of how Empirical And Molecular Formulas Answer Key can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Empirical And Molecular Formulas Answer Key in specific contexts. The fourth chapter will explore how Empirical And Molecular Formulas Answer Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Empirical And Molecular Formulas Answer Key. This chapter will summarize the key points that have been discussed throughout the book.
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