

Empirical and Molecular Formula Practice

3 pages + 3-page Answer KEY + Periodic Table

EMPIRICAL AND MOLECULAR PROBLEMS

Chemistry

1 The percent composition of a certain gas is nitrogen (80.0%) and hydrogen (20.0%). Calculate the empirical formula.

Step 1. Convert % to g.

N = 80

H = 20

Step 2. Convert g to mol.

Step 3. Divide by the smallest mole value.

Step 4. Multiply by smallest number that will make a whole number.

2 The compound in problem 1 has a molar mass of 100 g/mol. Calculate the molecular formula.

Step 1. Calculate the molar mass of the empirical formula.

Step 2. Divide molecular molar mass by empirical molar mass.

Step 3. Multiply empirical formula by the answer in Step 2.

3 A compound is composed of 82.7% nitrogen and 17.3% hydrogen. What is the empirical formula of this compound?

4 The compound in problem 3 has a molar mass of 100 g/mol. Calculate the molecular formula.

5 Hydrazine, a high energy fuel, is 87.5% nitrogen and 12.5% hydrogen. Calculate the empirical formula.

6 Hydrazine's molar mass is 32 g/mol. Calculate the molecular formula.

7 A compound, composed of hydrogen (5.9%) and oxygen (94.1%), has a molar mass of 54 g/mol. What is the empirical formula of this compound?

8 What is the molecular formula of the compound in problem 7?

9 A compound with a known molar mass of 28 g/mol contains carbon (85.7%) and hydrogen (14.3%). What is the empirical formula?

10 What is the molecular formula of the compound in problem 9?

ANSWER KEY INCLUDED

Answer Key Empirical And Molecular Practice

M Mark



Answer Key Empirical And Molecular Practice:

Embracing the Beat of Term: An Emotional Symphony within **Answer Key Empirical And Molecular Practice**

In a global consumed by monitors and the ceaseless chatter of fast communication, the melodic splendor and emotional symphony produced by the prepared word often disappear into the backdrop, eclipsed by the constant sound and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Answer Key Empirical And Molecular Practice** a charming fictional treasure brimming with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that charming masterpiece conducts viewers on a mental journey, skillfully unraveling the hidden tunes and profound affect resonating within each cautiously constructed phrase. Within the depths of the emotional assessment, we shall investigate the book is main harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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