

EMPIRICAL AND MOLECULAR FORMULA

- 1) What is the empirical formula of a compound that contains 46.3 % lithium and 53.7% oxygen?
- 2) What is the empirical formula of a compound that contains 15.9 % boron and 84.1 % fluorine?
- 3) Phosphorus reacts with oxygen to give a compound that is 43.7% phosphorus and 56.4% oxygen. What is the empirical formula of the compound?
- 4) An inorganic salt is composed of 17.6% sodium, 39.7% chromium and 42.8% oxygen. What is the empirical formula of this salt?
- 5) Compound X contains 69.9% carbon, 6.86% hydrogen and 23.3% oxygen. Determine the empirical formula of X.
- 6) Oxalic acid has the empirical formula CHO_2 . Its molar mass is 90 g/mol. What is the molecular formula of oxalic acid?
- 7) The empirical formula of codeine is $\text{C}_{18}\text{H}_{21}\text{NO}_3$. If the molar mass of codeine is 299 g/mol, what is its molecular formula?
- 8) A compound's molar mass is 240.28 g/mol. Its percentage composition is 75.0% carbon, 5.05% hydrogen and 20.0% oxygen. What is the compound's molecular formula?
- 9) The wintergreen plant produces methyl salicylate, or oil of wintergreen. It can also be prepared easily in the laboratory. Methyl salicylate is 63.1% carbon, 5.31% hydrogen and 31.6% oxygen. Calculate the empirical formula of this compound.
- 10) An inorganic salt is made up of 38.8% calcium, 20.0% phosphorus, and 41.2% oxygen.
 - a) What is the empirical formula of the compound?
 - b) On further analysis, each formula unit of this salt is found to contain two phosphate ions. Predict the molecular formula of this salt.

Answers

- 1) Li_2O
- 2) BF_3
- 3) P_2O_5
- 4) $\text{Na}_2\text{Cr}_2\text{O}_7$
- 5) $\text{C}_{12}\text{H}_{14}\text{O}_3$
- 6) $\text{C}_2\text{H}_2\text{O}_4$
- 7) $\text{C}_{18}\text{H}_{21}\text{NO}_3$
- 8) $\text{C}_{15}\text{H}_{12}\text{O}_3$
- 9) $\text{C}_8\text{H}_8\text{O}_3$
- 10) a) $\text{Ca}_3\text{P}_2\text{O}_8$ b) $\text{Ca}_3(\text{PO}_4)_2$

Empirical And Molecular Formula Problems

S Ashworth



Empirical And Molecular Formula Problems:

Decoding **Empirical And Molecular Formula Problems**: 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 power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Empirical And Molecular Formula Problems**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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