

## EMPIRICAL AND MOLECULAR FORMULAE

**EMPIRICAL FORMULA** - This represents the simplest whole number ratio of atoms within a molecule

**MOLECULAR FORMULA** - This represents the exact numbers of each atom in a molecule

Empirical formulae can be calculated from either % mass composition data or mass composition data. Molecular formula can then be calculated if the molecular mass of the compound is known.

### EXAMPLE 1 - from % composition

A substance containing carbon and hydrogen and oxygen only contains 73.47% carbon and 10.20% hydrogen by mass, its relative molecular mass is 98. Calculate its molecular formula.

Step 1 calculate empirical formula

ATOMS	CARBON	HYDROGEN	OXYGEN
PERCENTAGE MASS	73.47	10.20	$(100 - (73.47 + 10.20)) = 16.33$
ATOMIC MASS	12	1	16
MASS/ATOMIC MASS	6.1225	10.20	1.020
RATIO(divide by smallest)	6	10	1

Empirical formula =  $C_6H_{10}O$

Step 2 use  $M_r$  to find molecular formula

$$M_r = \text{mass } (C_6H_{10}O) \times n$$

$$98 = (98) \times n$$

$$n = 1$$

molecular formula =

$C_6H_{10}O$

### EXAMPLE 2 - from mass data

A substance contains 12.28g nitrogen, 3.51g hydrogen, 28.07g sulphur and 56.10g oxygen, its  $M_r$  is 228. Calculate its molecular formula.

# Empirical And Molecular Answers And Questions

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## **Empirical And Molecular Answers And Questions:**

## Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Empirical And Molecular Answers And Questions**

In a world inundated with monitors and the cacophony of quick transmission, the profound energy and psychological resonance of verbal beauty often diminish in to obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, situated within the lyrical pages of **Empirical And Molecular Answers And Questions**, a interesting work of fictional splendor that impulses with natural feelings, lies an memorable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this magical opus manuals readers on a mental odyssey, softly revealing the latent possible and profound influence embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is central styles, dissect its charming publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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