

Empirical/Molecular Formula

Name: _____

Date: _____

1. What is an empirical formula? How is it different from a molecular formula?

The empirical formula is the lowest whole number ratio of atoms in a compound. The molecular formula shows the true number of atoms in the molecule and is a whole number multiple of the empirical formula.

2. State the empirical formula for each of the following.



3. A sample of a compound is 50.0% sulfur and 50.0% oxygen by mass. What is the empirical formula?

$$S: \frac{50.0 \text{ g S}}{32.07 \text{ g S}} \times \frac{1 \text{ mol S}}{1} = \frac{1.559 \text{ mol S}}{1.559 \text{ mol}} = 1 S$$

EF: SO_2

$$O: \frac{50.0 \text{ g O}}{16.00 \text{ g O}} \times \frac{1 \text{ mol O}}{1} = \frac{3.125 \text{ mol O}}{1.559 \text{ mol}} = 2 O$$

4. A sample of a compound is 52.9% aluminum. The rest is oxygen. What is the empirical formula?

$$Al: \frac{52.9 \text{ g Al}}{26.98 \text{ g Al}} \times \frac{1 \text{ mol Al}}{1} = \frac{1.961 \text{ mol Al}}{1.961 \text{ mol Al}} = 1 Al \times 2 = 2$$

EF: Al_2O_3

$$O: \frac{47.1 \text{ g O}}{16.00 \text{ g O}} \times \frac{1 \text{ mol O}}{1} = \frac{2.944 \text{ mol O}}{1.961 \text{ mol}} = 1.5 \times 2 = 3 O$$

Ratio must be a whole

5. A compound is 48.65% carbon, 8.11 % hydrogen and 43.24 % oxygen. Determine the empirical formula.

4.05 mol carbon, 8.11 mol H, 2.70 mol O



1. Divide by the smallest # to get = $C_{1.5}H_3O_1$

2. Multiply to get a whole number ratio (x2) = $C_3H_6O_2$

6. Vinegar is a dilute solution of acetic acid. The molar mass of acetic acid is 60.0 g/mol and it has an empirical formula of CH_2O . What is the molecular formula of acetic acid?



7. A compound has an empirical formula of C_3H_4 . Which of the following are possible molar masses of the compound? 20 g/mol, 55 g/mol, 80 g/mol, 120 g/mol.



Molecular Formula Answers

Chandan Sengupta



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CLASS 11 CHEMISTRY 5 SOLVED "CASE STUDIES" Priti Singhal, 2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines ensuring that the content is both relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging

Understanding General Chemistry Atef Korchef, 2022-03-07 Understanding General Chemistry details the fundamentals of general chemistry through a wide range of topics relating the structure of atoms and molecules to the properties of matter Written in an easy to understand format with helpful pedagogy to fuel learning the book features main objectives at the beginning of each chapter get smart sections and

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Image Processing Using Pulse-Coupled Neural Networks Thomas Lindblad, Jason Kinser, 2005-08-02 Weitere Angaben Verfasser Thomas Lindblad is a professor at the Royal Institute of Technology Physics in Stockholm Working and teaching nuclear and environmental physics his main interest is with sensors signal processing and intelligent data analysis of torrent data from experiments on line accelerators in space etc Jason Kinser is an associate professor at George Mason University He has developed a plethora of image processing applications in the medical military and industrial fields He has been responsible for the conversion of PCNN theory into practical applications providing many improvements in both speed and performance

Chemical Principles Peter Atkins, Loretta Jones, 2007-08 Written for calculus inclusive general chemistry courses *Chemical Principles* helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications Unlike other texts it begins with a detailed picture of the atom then builds toward chemistry's frontier continually demonstrating how to solve problems think about nature and matter and visualize chemical concepts as working chemists do Flexibility in level is crucial and is largely established through clearly labeling separating in boxes the calculus coverage in the text Instructors have the option of whether to incorporate calculus in the coverage of topics The multimedia integration of *Chemical Principles* is more deeply established than any other text for this course Through the unique eBook the comprehensive Chemistry Portal Living Graph icons that connect the text to the Web and a complete set of animations students can take full advantage of the wealth of resources available to them to help them learn and gain a deeper understanding

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CBSE - ICSE Chemistry Part I Chandan Sengupta, First Publication October 2021 Place of Publication Arabinda Nagar Bankura 722101 This workbook will provide an ample scope in getting exposed to the system of acquiring skills and competence related to the understanding of chemistry It also exposes the student to the concepts of chemistry for enabling the aspirant in acquisition of skills related to chemistry Some of the worksheets are prepared along with model answers Some other worksheets are meant for self assessment and evaluation purposes It is also observed that

some of the topics are specific to the referred curriculum Some other topics are varyingly incorporated in other streams of study Culmination of more than two streams will enable the fellow student to cope up with the preparatory works meant for Olympiads and other competitive examinations

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Chemistry Eileen Ramsden,2001 This third edition of Key Science Chemistry has been fully revised to meet the requirements of all 2001 GCSE specifications It is aimed at middle ability students but contains enough material for high achievers Topics are clearly differentiated between core material for GCSE science Double Award Single Award and extension material for GCSE science chemistry

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