

Chemistry Chapter 4

Balancing chemical Equations

Chemical Reactions

- Reactions involve chemical changes in matter resulting in new substances
- Reactions involve rearrangement and exchange of atoms to produce new molecules
 - Elements are not transmuted during a reaction

Chemical Equations



- CH_4 and O_2 are the reactants, and CO_2 and H_2O are the products
- the (g) after the formulas tells us the state of the chemical
- the number in front of each substance tells us the numbers of those molecules in the reaction
 - called the **coefficients**

Balancing chemical equations

- Step 1: Determine the state of the reactants and products in the chemical reaction
- Step 2: Write the unbalanced chemical equation
- Step 3: Balance the number of atoms of each element in the reactant and product side, starting with the most complicated molecule

Balancing a Hypothetical Chemical Equation



- In this hypothetical reaction, C and D are the reactants, and X and Y are the products
- The number in front of each substance tells us the numbers of those molecules of reactants and products in the reaction
- So, if you react exactly 3 moles of C with 2 moles of D, then you will produce 5 moles of X and 2 moles of Y.
- If you reacted 6 moles of C with 4 moles of D, you will produce 10 moles of X and 4 moles of Y.

Example: Balancing chemical equations

- Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) reacts with Oxygen gas to produce gaseous carbon dioxide and water vapor



Reactants

6 C

12 H

8 O

Products

1 C

2 H

3 O

Chapter 3 And 4 Chemistry Test

Henry Forbes Julian, Edgar Smart



Chapter 3 And 4 Chemistry Test:

Forensic Chemistry Michael Grossman, 2026-01-29 Fundamentals of Forensic Chemistry strives to help scientists workplace health safety and other areas are included And two issues of Canadian legal process are argued as essays in the final two chapters General, Organic, and Biochemistry Media Update Ira Blei, George Odian, 2008-12-19 Blei and Odian s text gives students the tools they need to develop a working understanding of chemical principles rather than just asking them to memorize facts Now available in a new media enhanced version complete with its on own online course space learning environment ChemPortal Blei Odian is better suited than ever to meet the needs of the students taking this course The Media Update version of Blei Odian includes references to dynamic interactive tutorials which provide a step by step walkthrough of concepts and problem solving skills as well as answer specific feedback and practice problems We recognize that all introductory courses are not alike For that reason we offer this text in three versions so you can choose the option that s right for you General Organic and Biochemistry cloth 0 7167 4375 2 paper 1 4292 0994 1 the comprehensive 26 chapter text An Introduction to General Chemistry 0 7167 7073 3 10 chapters that cover the core concepts in general chemistry Organic and Biochemistry 0 7167 7072 5 16 chapters that cover organic and biochemistry plus two introductory chapters that review general chemistry *101 ORGANIC CHEMISTRY TESTS* Germán Fernández, 2024-02-12 In this book you will find 101 multiple choice questions about organic chemistry All these questions come from exams that allow chemists to work in a hospital QIR **Introduction to Forensic Chemistry** Kelly M. Elkins, 2018-09-03 Chemistry Forensic Science Forensic chemistry is a subdiscipline of forensic science its principles guide the analyses performed in modern forensic laboratories Forensic chemistry s roots lie in medico legal investigation toxicology and microscopy and have since led the development of modern forensic analytic techniques and practices for use in a variety of applications Introduction to Forensic Chemistry is the perfect balance of testing methods and application Unlike other competing books on the market coverage is neither too simplistic nor overly advanced making the book ideal for use in both undergraduate and graduate courses The book introduces chemical tests spectroscopy advanced spectroscopy and chromatography to students The second half of the book addresses applications and methods to analyze and interpret controlled substances trace evidence questioned documents firearms explosives environmental contaminants toxins and other topics The book looks at innovations in the field over time including the latest development of new discernible chemical reactions instrumental tools methods and more Key features Nearly 300 full color figures illustrating key concepts and over 20 case studies Addresses all the essential topics without extraneous or overly advanced coverage Includes full pedagogy of chapter objectives key terms lab problems end of chapter questions and additional readings to emphasize key learning points Includes chemical structures and useful spectra as examples Fulfils the forensic chemistry course requirement in FEPAC accredited programs Includes a chapter on Chemical Biological Radiological Nuclear and Explosive CBRNE materials Comprehensive and accessible without being

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