

## Chemical Reactions

### Section 9.1 Reactions and Equations

pages 282–288

#### Practice Problems

pages 284–287

Write skeleton equations for the following word equations.

1. Hydrogen and bromine gases react to yield hydrogen bromide.

hydrogen(g) + bromine(g) →  
hydrogen bromide(g)



2. When carbon monoxide and oxygen react, carbon dioxide forms.

carbon monoxide(g) + oxygen(g) →  
carbon dioxide(g)



3. **Challenge** Write the word equation and the skeleton equation for the following reaction: when heated, solid potassium chlorate yields solid potassium chloride and oxygen gas.

Potassium chlorate(s) →  
potassium chloride(s) + oxygen(g)



Write chemical equations for each of the following reactions.

4. In water, iron(III) chloride reacts with sodium hydroxide, producing solid iron(III) hydroxide and sodium chloride.



5. Liquid carbon disulfide reacts with oxygen gas, producing carbon dioxide gas and sulfur dioxide gas.



6. **Challenge** A piece of zinc metal is added to a solution of hydrogen sulfate. This reaction produces a gas and a solution of zinc sulfate.



### Section 9.1 Assessment

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7. **Explain** why it is important that a chemical equation be balanced.

Because mass is neither created nor destroyed in chemical reactions, the numbers of atoms of all elements must be equal on both sides of the reaction arrow.

8. **List** three types of physical evidence that indicate a chemical reaction has occurred.

Answers may include release or absorption of energy, change in color, change in odor, formation of a gas, or formation of a solid.

9. **Compare and contrast** a skeleton equation and a chemical equation.

The skeleton equation includes the formulas of reactants and products. The chemical equation gives the relative amounts of reactants and products.

10. **Explain** why it is important to reduce coefficients in a balanced equation to the lowest possible whole-number ratio.

Coefficients in the lowest ratio most clearly indicate the relative amounts of substances in a reaction.

11. **Analyze** When balancing a chemical equation, can you adjust the subscript in a formula? Explain.

No. Doing so changes the identity of the substance.

# Mcgraw Hill Chemical Reactions Study Guide

**Lauren Gardner**



## **Mcgraw Hill Chemical Reactions Study Guide:**

Scientific and Technical Information Resources Krishina Subramanyam, 2020-07-24 This book focuses on current practices in scientific and technical communication historical aspects and characteristics and bibliographic control of various forms of scientific and technical literature It integrates the inventory approach for scientific and technical communication

*Chemical Processing Handbook* John J. McKetta Jr, 1993-04-30 Written by more than 40 world renowned authorities in the field this reference presents information on plant design significant chemical reactions and processing operations in industrial use offering shortcut calculation methods wherever possible **Glencoe Science** McGraw-Hill Staff, 2001-06

*Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress, 1968 Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2014-11-29 The fourth edition of Ludwig's Applied Process Design for Chemical and Petrochemical Plants Volume Three is a core reference for chemical plant and process engineers and provides an unrivalled reference on methods process fundamentals and supporting design data New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers double pipe heat exchangers and air coolers Heat tracer requirements for pipelines and heat loss from insulated pipelines are covered in this new edition along with batch heating and cooling of process fluids process integration and industrial reactors The book also looks at the troubleshooting of process equipment and corrosion and metallurgy Assists engineers in rapidly analyzing problems and finding effective design methods and mechanical specifications Definitive guide to the selection and design of various equipment types including heat exchanger sizing and compressor sizing with established design codes Batch heating and cooling of process fluids supported by Excel programs *U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973* United States. Environmental Protection Agency. Library Systems Branch, 1974 *A Study of Enzymes* Stephen A. Kuby, 1990-11-21 This comprehensive monograph consists of two parts Volume I entitled Enzyme Catalysis Kinetics and Substrate Binding and Volume II entitled Mechanism of Enzyme Action Volume I focuses on several aspects of enzyme catalytic behavior their steady state and transient state kinetics and the thermodynamic properties of substrate binding Packed with figures tables schemes and photographs this volume contains over 1 000 references including references regarding enzymology's fascinating history This comprehensive book is of particular interest to enzymology students teachers and researchers Volume II presents selected cutting edge examples of techniques and approaches being pursued in biochemistry This up to date resource includes 11 chapters which illustrate important theoretical and practical aspects of enzyme mechanisms It also features selected examples in which today's most important techniques ideas and theories are used to elaborate on the intricate nature of enzyme action mechanisms This particular volume provides important information for both the novice and the seasoned investigator *Advances in Theory and Practice of Computational Mechanics* Lakhmi C. Jain, Margarita N. Favorskaya, Ilia S. Nikitin, Dmitry L.

Reviznikov,2020-03-31 This book discusses physical and mathematical models numerical methods computational algorithms and software complexes which allow high precision mathematical modeling in fluid gas and plasma mechanics general mechanics deformable solid mechanics and strength destruction and safety of structures These proceedings focus on smart technologies and software systems that provide effective solutions to real world problems in applied mechanics at various multi scale levels Highlighting the training of specialists for the aviation and space industry it is a valuable resource for experts in the field of applied mathematics and mechanics mathematical modeling and information technologies as well as developers of smart applied software systems     Thermodynamics with Chemical Engineering Applications Elias I.

Franses,2014-08-25 Master the principles of thermodynamics and understand their practical real world applications with this deep and intuitive undergraduate textbook     **Advances in Quantum Chemistry** ,1988-08-01 Advances in Quantum

Chemistry     **Ebook: Chemistry: The Molecular Nature of Matter and Change** Silberberg,2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change     **Protection Officer Training Manual** Sam Stuart,2016-06-06 Protection

Officer Training Manual Fifth Edition is a guidebook that provides a comprehensive coverage of security practice The book is comprised of 27 chapters that are organized into 10 units The coverage of the text includes various security procedures such as patrolling traffic management and crowd control Security threats are also covered including explosives fire and hazardous substances The book also covers emergency or high risk situation such as V I P protection crisis intervention and first aid administration The text will be most useful to security trainee and instructors Individuals involved in administrative and management position will also benefit from the book     Chemistry and Industry Review ,1929     **Study Guide and**

**Workbook for Genetics** Irwin Herman Herskowitz,1960     **Medical and Health Care Books and Serials in Print** ,1986

**Chemical Reactions Using Gliding Arc Plasma** Antonius Indarto,2010-06-25 This book deals with the application of Gliding Arc plasma to convert some gaseous chemicals It covers the decomposition of some chlorinated compounds the conversion of methane CH<sub>4</sub> and carbon dioxide CO<sub>2</sub>     **Science Course Improvement Projects** National Science

Foundation (U.S.),1962     Encyclopedia of Physical Organic Chemistry. 6 Volume Set Zerong Wang,Uta Wille,Eusebio Juaristi,2017-04-17 Winner of 2018 PROSE Award for MULTIVOLUME REFERENCE SCIENCE This encyclopedia offers a comprehensive and easy reference to physical organic chemistry POC methodology and techniques It puts POC a classical and fundamental discipline of chemistry into the context of modern and dynamic fields like biochemical processes materials science and molecular electronics Covers basic terms and theories into organic reactions and mechanisms molecular designs and syntheses tools and experimental techniques and applications and future directions Includes coverage of green chemistry and polymerization reactions Reviews different strategies for molecular design and synthesis of functional molecules Discusses computational methods software packages and more than 34 kinds of spectroscopies and techniques for studying structures and mechanisms Explores applications in areas from biology to materials science The Encyclopedia of

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*Books in Print Supplement*, 1985

**Transition States of Biochemical Processes** R. Gandour, 2013-06-29 The transition state theory has been from the point of its inception the most influential principle in the development of our knowledge of reaction mechanisms in solution It is natural that as the field of biochemical dynamics has achieved new levels of refinement its students have increasingly adopted the concepts and methods of transition state theory Indeed every dynamical problem of biochemistry finds its most elegant and economical statement in the terms of this theory Enzyme catalytic power for example derives from the interaction of enzyme and substrate structures in the transition state so that an understanding of this power must grow from a knowledge of these structures and interactions Similarly transition state interactions and the way in which they change as protein structure is altered constitute the pivotal feature upon which molecular evolution must turn The complete coupled dynamical system of the organism incorporating the transport of matter and energy as well as local chemical processes will eventually have to yield to a description of its component transition state structures and their energetic response characteristics even if the form of the description goes beyond present day transition state theory Finally the importance of biochemical effectors in medicine and agriculture carries the subject into the world of practical affairs in the use of transition state information for the construction of ultra potent biological agents

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