

## Chapter 8 Chemical Reactions Chapter Review Answers

1. The evolution of energy, the production of a gas, the formation of a precipitate, and a color change.
2. A correctly written chemical equation must represent the known facts, contain the correct formulas for the reactants and products, and satisfy the law of conservation of mass.
3.
  - a. It is a number that appears in front of a formula in a chemical equation.
  - b. The number of atoms of each type in the formula is multiplied by the coefficient.
4. methane + oxygen  $\rightarrow$  carbon dioxide + water;  
 $\text{CH}_4(\text{g}) + \text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g})$ ;  
 $\text{CH}_4(\text{g}) + 2\text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g}) + 2\text{H}_2\text{O}(\text{g})$
5. A chemical equation provides the number of molecules, moles, and atoms of each element or compound composing the reactants and products as well as the mole ratios of the reactants to each other and to the products.
6. Word and formula equations have only qualitative meaning; they do not express the relative quantities of a reaction's reactants or products.
7.
  - a. a solution in water
  - b. a substance that accelerates a chemical reaction but can be recovered unchanged
  - c. a chemical reaction in which the products re-form the original reactants
8.
  - a. KOH
  - b.  $\text{Ca}(\text{NO}_3)_2$
  - c.  $\text{Na}_2\text{CO}_3$
  - d.  $\text{CCl}_4$
  - e.  $\text{MgBr}_2$
9. (1) Balance different types of atoms one at a time; (2) balance types of atoms that appear only once on each side of the equation first; (3) balance as single units any polyatomic ions that appear on both sides of the equation; and (4) balance H atoms and O atoms last.
10.
  - a. 6N
  - b. 4H, 2O
  - c. 4H, 4N, 12O
  - d. 2Ca, 4O, 4H
  - e. 3Ba, 6Cl, 18O
  - f. 5Fe, 10N, 30O
  - g. 12Mg, 8P, 32O
  - h. 4N, 16H, 2S, 8O
  - i. 12Al, 188Se, 72O
  - j. 12C, 32H
11.
  - a.  $2\text{ZnS}(\text{s}) + 3\text{O}_2(\text{g}) \rightarrow 2\text{ZnO}(\text{s}) + 2\text{SO}_2(\text{g})$
  - b.  $2\text{HCl}(\text{aq}) + \text{Ba}(\text{OH})_2(\text{aq}) \rightarrow \text{BaCl}_2(\text{aq}) + 2\text{H}_2\text{O}(\text{l})$
  - c.  $2\text{HNO}_3(\text{aq}) + \text{Ca}(\text{OH})_2(\text{aq}) \rightarrow \text{Ca}(\text{NO}_3)_2(\text{aq}) + 2\text{H}_2\text{O}(\text{l})$
12.
  - a. Solid zinc sulfide reacts with oxygen gas to form solid zinc oxide and sulfur dioxide gas.
  - b. When solid calcium hydride is added to water, aqueous calcium hydroxide and hydrogen gas are formed.
  - c. Aqueous silver nitrate mixed with aqueous potassium iodide produces a precipitate of silver iodide and aqueous potassium nitrate.
13.
  - a.  $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$
  - b.  $2\text{Al} + \text{Fe}_2\text{O}_3 \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$
  - c.  $\text{Pb}(\text{CH}_3\text{COO})_2 + \text{H}_2\text{S} \rightarrow \text{PbS} + 2\text{CH}_3\text{COOH}$
14.
  - a.  $\text{LiO}_2$  is an incorrect formula;  $4\text{Li} + \text{O}_2 \rightarrow 2\text{Li}_2\text{O}$
  - b.  $\text{H}_2\text{Cl}_2$  is an incorrect formula;  $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$
  - c.  $\text{MgO}_2$  is an incorrect formula, and the equation as written is not balanced;  $\text{MgCO}_3 \rightarrow \text{MgO} + \text{CO}_2$
  - d. I is an incorrect formula for iodine, and the equation is not balanced;  $2\text{NaI} + \text{Cl}_2 \rightarrow 2\text{NaCl} + \text{I}_2$
15.
  - a.  $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$
  - b.  $\text{P}_2\text{O}_5 + 6\text{H}_2\text{O} \rightarrow 4\text{H}_3\text{PO}_4$
  - c.  $\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$
16.  $\text{CH}_4(\text{g}) + 4\text{Cl}_2(\text{g}) \rightarrow \text{CCl}_4(\text{l}) + 4\text{HCl}(\text{g})$
17.
  - a.  $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$
  - b.  $4\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
  - c.  $2\text{Li} + \text{Cl}_2 \rightarrow 2\text{LiCl}$
  - d.  $\text{Ca} + \text{I}_2 \rightarrow \text{CaI}_2$
18.
  - (1) In a synthesis reaction, two or more substances combine to form a new substance:  $\text{A} + \text{X} \rightarrow \text{AX}$
  - (2) In a decomposition reaction, a single compound undergoes a reaction that produces two or more simpler substances:  $\text{AX} \rightarrow \text{A} + \text{X}$
  - (3) In a single-displacement reaction, one element replaces another element in a compound:  
 $\text{A} + \text{BX} \rightarrow \text{AX} + \text{B}$  or  $\text{Y} + \text{RX} \rightarrow \text{RY} + \text{X}$

# Heath Chemistry Chapter 8 Review Answers

**Robert R Harr**



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Grotewold,2007-12-07 This is the only book of its kind to provide an overview of the science of flavonoids in plants      *Soil and Environmental Chemistry* William F. Bleam,2016-11-30 Soil and Environmental Chemistry Second Edition presents key aspects of soil chemistry in environmental science including dose responses risk characterization and practical applications of calculations using spreadsheets The book offers a holistic practical approach to the application of environmental chemistry to soil science and is designed to equip the reader with the chemistry knowledge and problem solving skills necessary to

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**Chemistry for the Health Professions** Charles H. Henrickson, Larry C. Byrd, 1980

**Natural Alternatives and Nanotechnology Applied to the One Health Approach** Michel Stéphane Heya, 2025-12-02 The search for reliable sustainable and environmentally friendly alternatives has become a global trend due to critical limits worldwide regarding increased pharmacological resistance pharmaceutical pollution and rising human and zoonotic diseases Although research based on medicinal plants algae blood therapy among others has not yet reached its peak it has shown promising results and become a reliable and sustainable hope for combating emerging human diseases In recent decades innovations have included the use of nanovehicles to deliver pharmacologically active compounds aiming to enhance their curative effect pharmacological selectivity and controlled release While some studies highlight the limitations of nanovehicles nanodrugs most acknowledge their superiority over conventional dosing forms Nanodrugs can overcome various physiological barriers in the human body providing controlled drug release at the desired site increasing therapeutic potential and reducing toxicity They also enhance pharmacokinetics and pharmacodynamics Natural Alternatives and Nanotechnology Applied to the One Health Approach explores the pharmacological potential of various natural sources to combat certain human and zoonotic diseases and the contribution of nanotechnology in dosing active compounds for select diseases

**Principles and Practice of Toxicology in Public Health** Ira S. Richards, Marie Bourgeois, 2013-07-24 All public health professionals should have some level of knowledge of the basic principles of Toxicology Whether dealing with issues as diverse as a workers compensation claim for a job related exposure and injury or the removal of toxic wastes from an urban community public health professionals must be able to communicate with each other the public and our political leaders concerning how chemicals can and the conditions under which they may realistically produce harm Principles and Practice of Toxicology in Public Health provides students with an understanding of the nature and scope of the discipline so that they may be prepared to participate in a meaningful way in the often highly

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**Fundamentals of Medicinal Chemistry and Drug Metabolism** M. O. Faruk Khan, Ashok Philip, 2018-06-01 The primary objective of this 4 volume book series is to educate PharmD students on the subject of medicinal chemistry The book set serves as a reference guide to pharmacists on aspects of chemical basis of drug action This first volume of the series is comprised of 8 chapters focusing on basic background information about medicinal chemistry It takes a succinct and conceptual approach to introducing important fundamental concepts required for a clear understanding of various facets of pharmacotherapeutic agents drug metabolism and important biosynthetic pathways that are relevant to drug action Notable topics covered in this first volume include the scope and

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**Zero Waste Management Technologies** Rouf Ahmad Bhat,Gowhar Hamid Dar,Younis Ahmad Hajam,2024-06-29 This volume highlights cutting edge research on Zero waste management and the associated effects of waste on the environment Predominantly it focuses on the challenges of dealing with the amassed production of waste and the cumulative impact of increasing waste on the biosphere Different sections of this book focus on the comprehensive overview of the technological advancements driving the Zero Waste movement Furthermore it explores innovations in waste reduction recycling and repurposing from a global perspective examining the diverse cultural social and economic factors influencing the adoption of zero waste strategies worldwide In addition it discusses the challenges and opportunities inherent in promoting a unified global effort toward sustainable resource management Discover the latest breakthroughs in waste reduction recycling and resource optimization This essential guide empowers you to implement practical innovative solutions for a greener future Whether a business owner environmental enthusiast or simply curious about sustainable living this book is a roadmap to a cleaner and healthier planet

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**Biomedical Waste Management** Neha Suyal,Prasenjit Debbarma,Manali Singh,Anita Mishra,Roop S. Bora,2024-09-23 Healthcare facilities medical laboratories and biomedical research facilities generate large amounts of biomedical waste Poor management of the waste can cause serious health and environmental hazards This book aims to cover the latest technologies and innovations for sustainable management It covers bioremediation processes plastic waste recycling and metal recovery It also discusses waste monetization such as conversion into energy

**Challenges and Potential Solutions in Gluten Free Product Development** Navneet Singh Deora,Aastha Deswal,Madhuresh Dwivedi,2021-12-04 This work provides researchers with a thorough overview of all aspects related to the development of gluten free food products In summarizing and offering critical reviews of published works and focusing on current advances and technologies in gluten free product development this book covers all of the important subjects related to this increasingly important aspect of the food industry Important case studies in gluten free breadmaking and alternative proteins are presented making

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## Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Heath Chemistry Chapter 8 Review Answers**

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