

Chapter 19 Study Guide: Acids, Bases & Titration – Answers

1. Differentiate between Arrhenius, Brønsted-Lowry & Lewis acids and bases.

	ACIDS	BASES
Arrhenius	Form hydronium ions (H_3O^+) in aqueous sol'n	Form hydroxide ions (OH^-) in aqueous sol'n
Brønsted-Lowry	Proton (H^+) donors	Proton (H^+) acceptors
Lewis	Electron pair acceptors	Electron pair donors

2. Label the acid (A), base (B), conjugate acid (CA) and conjugate base (CB) in each of the following reactions:



3. Write the names or formulas for the following acids and bases:

- a. H_2S – hydrosulfuric acid
 b. $\text{HC}_2\text{H}_3\text{O}_2$ – acetic acid
 c. NaOH – sodium hydroxide
 d. HNO_3 – nitric acid
 e. Nitrous acid – HNO_2
 f. Calcium hydroxide – $\text{Ca}(\text{OH})_2$
 g. hydrochloric acid – HCl

Use the following formulas for the remaining questions: (these will not be given to you on the test!)

$$K_w = [\text{H}_3\text{O}^+][\text{OH}^-] = 1.0 \times 10^{-14}$$

$$\text{pH} = -\log[\text{H}_3\text{O}^+]$$

$$\text{pOH} = -\log[\text{OH}^-]$$

$$\text{pH} + \text{pOH} = 14$$

$$M_A \cdot V_A \cdot n_A = M_B \cdot V_B \cdot n_B$$

4. What is the pH of
- 1.34×10^{-4}
- M solution of hydrochloric acid?

$$\text{pH} = -\log [1.34 \times 10^{-4}\text{M}] = 3.873$$

5. Determine the pH and pOH of a
- 1.85×10^{-6}
- M NaOH solution.

$$\text{pOH} = -\log [1.85 \times 10^{-6}\text{M}] = 5.733$$

$$\text{pH} = 14 - 5.73 = 8.267$$

6. What is the
- $[\text{OH}^-]$
- of an aqueous solution that has a pH of 5.0?

$$\text{pOH} = 9 \quad [\text{OH}^-] = 1 \times 10^{-9} \text{ M}$$

7. What is the pH and the pOH of a solution with a volume of 2000. mL containing 35 grams of NaOH? Is this solution acidic or basic?

$$\frac{35\text{gNaOH}}{2.000\text{L}} \times \frac{1\text{molNaOH}}{40.00\text{gNaOH}} = 0.44\text{M NaOH}$$

$$\text{pOH} = -\log[0.44\text{M}] = 0.36 \quad \text{pH} = 14 - 0.36 = 13.64 \quad \text{basic}$$

Study Guide Acid And Bases Answers

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Study Guide Acid And Bases Answers:

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03
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opportunity arises the authors show students what it does in living systems and the physical world around us Organic Chemistry, 13e Student Study Guide and Solutions Manual T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2022-05-03 Organic Chemistry Student Study Guide and Solutions Manual 13th Edition offers the full solutions for select exercises from the text Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions Because this knowledge base crosses many different disciplines introduction to caring for the intensive care patient while exciting may also be intimidating This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful The book contains three components 1 description of the procedural tasks commonly performed for the critically ill patient 2 explanation of the most common pathophysiologic states encountered and 3 description of specific disease entities with details of their differential diagnosis diagnostic strategy and therapeutic plan This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy As an additional study aid margin notes highlight important teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader **Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry** Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker more realistic view of Botswana Sue Baker Publishing News **Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition** John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter Study Guide with Selected Solutions Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems **Study Guide for Understanding Pathophysiology - E-Book** Sue E. Huether, Kathryn L. McCance, Valentina L. Brashers, Linda Felver, 2024-11-04 Reinforce your understanding of pathophysiology concepts and processes Corresponding to the chapters in Huether's Understanding Pathophysiology Eighth Edition this study guide provides a wide variety of questions and activities to help you review and master pathophysiologic content This practical workbook begins with exercises on normal anatomy and physiology then follows with exercises relating to body systems and disease Case studies and practice exams help you prepare for tests and develop the clinical thinking

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Table of Contents Study Guide Acid And Bases Answers

1. Understanding the eBook Study Guide Acid And Bases Answers
 - The Rise of Digital Reading Study Guide Acid And Bases Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Acid And Bases Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide Acid And Bases Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Acid And Bases Answers
 - Personalized Recommendations
 - Study Guide Acid And Bases Answers User Reviews and Ratings
 - Study Guide Acid And Bases Answers and Bestseller Lists
5. Accessing Study Guide Acid And Bases Answers Free and Paid eBooks
 - Study Guide Acid And Bases Answers Public Domain eBooks
 - Study Guide Acid And Bases Answers eBook Subscription Services
 - Study Guide Acid And Bases Answers Budget-Friendly Options

6. Navigating Study Guide Acid And Bases Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Guide Acid And Bases Answers Compatibility with Devices
 - Study Guide Acid And Bases Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide Acid And Bases Answers
 - Highlighting and Note-Taking Study Guide Acid And Bases Answers
 - Interactive Elements Study Guide Acid And Bases Answers
8. Staying Engaged with Study Guide Acid And Bases Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Acid And Bases Answers
9. Balancing eBooks and Physical Books Study Guide Acid And Bases Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Acid And Bases Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study Guide Acid And Bases Answers
 - Setting Reading Goals Study Guide Acid And Bases Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study Guide Acid And Bases Answers
 - Fact-Checking eBook Content of Study Guide Acid And Bases Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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