

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and vice versa for weak acids and bases.
2. Calculate K_a and K_b for weak acids and bases, and vice versa for weak acids and bases.
3. Calculate the pH of weak acid and base solutions.

Vocabulary

- | | | |
|-----------------|--------------------------------------|-----------------|
| acid | acid dissociation constant (K_a) | acid ionization |
| acidic solution | base | base ionization |
| base | base dissociation constant (K_b) | basic solution |

Key Equations

- | | |
|---|--|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ (Equation 19.1) | $K_b = \frac{[OH^-][HB^+]}{[B]}$ (Equation 19.2) |
|---|--|

Part A Completion

Write the appropriate formula or name for each compound, and write its acid-base behavior in water. Indicate whether the compound is a weak acid, weak base, or neutral.

1. HNO_3 (nitric acid)
2. CH_3COOH (acetic acid)
3. $NaOH$ (sodium hydroxide)
4. H_2SO_4 (sulfuric acid)
5. CH_3NH_2 (methylamine)
6. CH_3COO^- (acetate ion)
7. $CH_3NH_3^+$ (methylammonium ion)
8. CH_3COOH (acetic acid)
9. CH_3NH_2 (methylamine)
10. CH_3COO^- (acetate ion)
11. $CH_3NH_3^+$ (methylammonium ion)
12. CH_3COOH (acetic acid)
13. CH_3NH_2 (methylamine)
14. CH_3COO^- (acetate ion)
15. $CH_3NH_3^+$ (methylammonium ion)

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13. CH_3NH_2 (methylamine)
14. CH_3COO^- (acetate ion)
15. $CH_3NH_3^+$ (methylammonium ion)

19 2 Hydrogen Ions And Acidity Section Review Answers

Maurice Bleifeld



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Fundamentals of Sustainable Chemical Science Stanley E. Manahan,2009-03-10 Written by Stanley Manahan

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Structure & Function of the Body - E-Book Gary A. Thibodeau, Kevin T. Patton, 2013-12-23 Simple and straightforward Thibodeau and Patton's Structure Function of the Body 14th Edition makes the difficult concepts of anatomy and physiology clear and easier to understand Focusing on the normal structure and function of the human body and what the body does to maintain homeostasis this introductory text provides more than 400 vibrantly detailed illustrations and a variety of interactive learning tools to help you establish an essential foundation for success in the care of the human body

This title includes additional digital media when purchased in print format For this digital book edition media content may not be included **Study Guide for Structure & Function of the Body - E-Book** Kevin T. Patton, Gary A.

Thibodeau, Linda Swisher, 2023-07-23 NEW Updated content reflects the changes made to the new edition of the Structure and Function text Study Guide for The Human Body in Health & Disease Linda Swisher, RN, EdD, Kevin T. Patton, PhD, Gary A. Thibodeau, PhD, 2013-02-15 Reinforce your understanding of the concepts in Patton and Thibodeau's The Human Body in Health Disease 6th Edition Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to the anatomy and physiology of the human body and body function in health and disease A variety of exercises make it easy to review and apply key concepts and labeling of anatomy drawings helps you learn anatomical structures and terminology UPDATED Did You Know provides fun interesting facts on A P topics A brief synopsis at the beginning of each chapter previews core concepts that will be covered Crossword Puzzle Unscramble and Word Find activities help you learn new vocabulary terms and their proper spelling Diagrams and labeling exercises reinforce your understanding of where the structures of the body are located Answers to exercises are located in the back of the study guide along with page number references to the textbook NEW Know Your Medical Terms exercises help you learn and understand the various word parts used in medical terminology as presented in the new Language of Science and Language of Medicine word lists in the textbook Matching and fill in the blank exercises enhance your comprehension of chapter content Application questions develop your critical thinking skills and help you apply information to real world scenarios Wong's Nursing Care of Infants and Children Multimedia Enhanced Version Marilyn J. Hockenberry, David Wilson, 2013-10-17 A most trusted authority in pediatric nursing this book provides unmatched comprehensive coverage of pediatric growth development and conditions Its unique age and stage approach covers child development and health promotion as well as specific health problems organised by age groups and body systems Selected Water Resources Abstracts , 1991-10 **Study Guide to Accompany Structure and Function of the Body** Linda Swisher, Gary A. Thibodeau, 2003-11 This comprehensive resource provides a variety of exercises for readers to apply and test their knowledge It contains matching fill in the blanks crossword puzzles word find unscramble the word application questions diagrams and page number references in the answer key December 2003

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