

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and pK_a and pK_b for weak acids and bases.
2. Calculate K_a and K_b for weak acids and bases, and pK_a and pK_b 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 | acidic solution | acidic solution |
| acidic solution | acidic solution | acidic solution |

Key Equations

- | | |
|---------------------------------|----------------------------------|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ | $K_b = \frac{[OH^-][HB^+]}{[B]}$ |
| $pH = -\log[H^+]$ | $pOH = -\log[OH^-]$ |

Part A Completion

Write the chemical formula for each of the following acids, bases, and salts. Also, write the chemical formula for each of the following acids, bases, and salts.

1. Hydrochloric acid, HCl , $HClO_4$, HNO_3 , H_2SO_4
2. Acetic acid, CH_3COOH , CH_3COO^- , CH_3COO^-
3. Nitric acid, HNO_3 , HNO_2 , HNO_3 , HNO_2
4. Sulfuric acid, H_2SO_4 , H_2SO_4 , H_2SO_4 , H_2SO_4
5. Phosphoric acid, H_3PO_4 , H_3PO_4 , H_3PO_4 , H_3PO_4
6. Hydrofluoric acid, HF , HF , HF , HF
7. Hydrobromic acid, HBr , HBr , HBr , HBr
8. Hydroiodic acid, HI , HI , HI , HI
9. Hydrocyanic acid, HCN , HCN , HCN , HCN
10. Hydroperchloric acid, $HClO_4$, $HClO_4$, $HClO_4$, $HClO_4$
11. Hydroperbromic acid, $HBrO_4$, $HBrO_4$, $HBrO_4$, $HBrO_4$
12. Hydroperiodic acid, HI_4 , HI_4 , HI_4 , HI_4
13. Hydroperacetic acid, CH_3COOH , CH_3COOH , CH_3COOH , CH_3COOH
14. Hydroperacetic acid, CH_3COOH , CH_3COOH , CH_3COOH , CH_3COOH
15. Hydroperacetic acid, CH_3COOH , CH_3COOH , CH_3COOH , CH_3COOH

1. Hydrochloric acid, HCl , $HClO_4$, HNO_3 , H_2SO_4
2. Acetic acid, CH_3COOH , CH_3COO^- , CH_3COO^-
3. Nitric acid, HNO_3 , HNO_2 , HNO_3 , HNO_2
4. Sulfuric acid, H_2SO_4 , H_2SO_4 , H_2SO_4 , H_2SO_4
5. Phosphoric acid, H_3PO_4 , H_3PO_4 , H_3PO_4 , H_3PO_4
6. Hydrofluoric acid, HF , HF , HF , HF
7. Hydrobromic acid, HBr , HBr , HBr , HBr
8. Hydroiodic acid, HI , HI , HI , HI
9. Hydrocyanic acid, HCN , HCN , HCN , HCN
10. Hydroperchloric acid, $HClO_4$, $HClO_4$, $HClO_4$, $HClO_4$
11. Hydroperbromic acid, $HBrO_4$, $HBrO_4$, $HBrO_4$, $HBrO_4$
12. Hydroperiodic acid, HI_4 , HI_4 , HI_4 , HI_4
13. Hydroperacetic acid, CH_3COOH , CH_3COOH , CH_3COOH , CH_3COOH
14. Hydroperacetic acid, CH_3COOH , CH_3COOH , CH_3COOH , CH_3COOH
15. Hydroperacetic acid, CH_3COOH , CH_3COOH , CH_3COOH , CH_3COOH

19 2 Hydrogen Ions And Acidity Section Review Answers

Gary A. Thibodeau, Kevin T. Patton



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SAT Two, Biology and Biology E/M Maurice Bleifeld, 1998 An overview of the SAT II biology exams with a review of test taking strategies is followed by a full length diagnostic test review chapters covering 11 biology topics and five complete practice tests each with an answer key a self evaluation chart and explanations of answers *Foundations of College Chemistry* Morris Hein, Susan Arena, Cary Willard, 2016-08-02 This text is an unbound three hole punched version Used by over 750 000 students Foundations of College Chemistry Binder Ready Version 15th Edition is praised for its accuracy clear no nonsense approach and direct writing style Foundations direct and straightforward explanations focus on problem solving making it the most dependable text on the market Its comprehensive scope proven track record outstanding in text examples and problem sets were all designed to provide instructors with a solid text while not overwhelming students in a difficult course Foundations fits into the prep intro chemistry courses which often include a wide mix of students from science majors not yet ready for general chemistry allied health students in their 1st semester of a GOB sequence science education students for elementary school teachers to the occasional liberal arts student fulfilling a science requirement Foundations was specifically designed to meet this wide array of needs *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

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