

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate concentrations based on the pH of acids and bases and vice versa.
2. Calculate pH and concentrations based on K_a and K_b and vice versa.
3. Calculate the pH of weak acids and bases.

Vocabulary

- | | | |
|------------------------|-----------------------------|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. weak acid/base |
| 4. ionization | 5. K_a | 6. K_b |
| 7. ionization constant | 8. pH | |

Key Equation

- | | |
|-----------------------|-----------------------|
| 1. $[H^+] = 10^{-pH}$ | 2. $pH = -\log [H^+]$ |
| 3. $pH = -\log [H^+]$ | 4. $[H^+] = 10^{-pH}$ |

Part A Completion

Write the equation and/or the numerical value(s) of the constant(s) that are indicated in the spaces provided. Be sure to include correct units when appropriate.

1. Water autoionizes. K_w is the ionization constant of water. Write the equation and K_w at the temperature of 25°C.
2. Hydrochloric acid dissociates from HCl to H^+ and Cl^- . Write the K_a expression and K_a value for this acid.
3. Acetic acid, CH_3COOH , dissociates to CH_3COO^- and H^+ . Write the K_a expression and K_a value for this acid.
4. OH^- is the conjugate base of water. Write the K_b expression and K_b value for this base.
5. CH_3COO^- is the conjugate base of acetic acid. Write the K_b expression and K_b value for this base.

6. K_a for HCl is 1.0×10^6 .
7. K_b for OH^- is 1.0×10^{-14} .
8. K_a for HCl is 1.0×10^6 .
9. K_b for OH^- is 1.0×10^{-14} .
10. K_a for HCl is 1.0×10^6 .
11. K_b for OH^- is 1.0×10^{-14} .
12. K_a for HCl is 1.0×10^6 .
13. K_b for OH^- is 1.0×10^{-14} .
14. K_a for HCl is 1.0×10^6 .
15. K_b for OH^- is 1.0×10^{-14} .
16. K_a for HCl is 1.0×10^6 .
17. K_b for OH^- is 1.0×10^{-14} .
18. K_a for HCl is 1.0×10^6 .

19 2 Hydrogen Ions And Acidity Section Review Answers

Michael Rajnik



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Bulletin American Society for Testing Materials,1956 Includes list and announcements of the society s publications Bibliography of Agriculture ,1982 Russian Chemical Reviews ,1981 **Electrochemical and Metallurgical Industry** Eugene Franz Roeber,Howard Coon Parmelee,1920 **ASTM Bulletin** American Society for Testing Materials,1956 **Forensic Science Review** ,2001 **The Lancet** ,1947 New York Produce Review and American Creamery ,1936 **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 **Crop Physiology Abstracts** ,1985 **Acidic Deposition: Terrestrial, materials, health and visibility effects** Patricia M. Irving,1991

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