

## 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 acids and bases.

## Vocabulary

- |                 |                                      |                   |
|-----------------|--------------------------------------|-------------------|
| acid            | acid dissociation constant ( $K_a$ ) | acid ionization   |
| acidic solution | acid strength                        | alkaline solution |
|                 |                                      | pH                |

## 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 number in each blank space, and write the name of the substance in each blank space.

1. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is \_\_\_\_\_.
2. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is \_\_\_\_\_.
3. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is \_\_\_\_\_.
4. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is \_\_\_\_\_.
5. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is \_\_\_\_\_.
6. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is \_\_\_\_\_.
7. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is \_\_\_\_\_.
8. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is \_\_\_\_\_.
9. The  $K_a$  of a weak acid is  $1.0 \times 10^{-4}$ . The  $K_b$  of its conjugate base is \_\_\_\_\_.
10. The  $K_b$  of a weak base is  $1.0 \times 10^{-4}$ . The  $K_a$  of its conjugate acid is \_\_\_\_\_.

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**Ensheng Dong**



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### **Table of Contents 19 2 Hydrogen Ions And Acidity Section Review**

1. Understanding the eBook 19 2 Hydrogen Ions And Acidity Section Review
  - The Rise of Digital Reading 19 2 Hydrogen Ions And Acidity Section Review
  - Advantages of eBooks Over Traditional Books
2. Identifying 19 2 Hydrogen Ions And Acidity Section Review
  - 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 19 2 Hydrogen Ions And Acidity Section Review
  - User-Friendly Interface
4. Exploring eBook Recommendations from 19 2 Hydrogen Ions And Acidity Section Review
  - Personalized Recommendations
  - 19 2 Hydrogen Ions And Acidity Section Review User Reviews and Ratings
  - 19 2 Hydrogen Ions And Acidity Section Review and Bestseller Lists

5. Accessing 19 2 Hydrogen Ions And Acidity Section Review Free and Paid eBooks
  - 19 2 Hydrogen Ions And Acidity Section Review Public Domain eBooks
  - 19 2 Hydrogen Ions And Acidity Section Review eBook Subscription Services
  - 19 2 Hydrogen Ions And Acidity Section Review Budget-Friendly Options
6. Navigating 19 2 Hydrogen Ions And Acidity Section Review eBook Formats
  - ePub, PDF, MOBI, and More
  - 19 2 Hydrogen Ions And Acidity Section Review Compatibility with Devices
  - 19 2 Hydrogen Ions And Acidity Section Review Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 19 2 Hydrogen Ions And Acidity Section Review
  - Highlighting and Note-Taking 19 2 Hydrogen Ions And Acidity Section Review
  - Interactive Elements 19 2 Hydrogen Ions And Acidity Section Review
8. Staying Engaged with 19 2 Hydrogen Ions And Acidity Section Review
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 19 2 Hydrogen Ions And Acidity Section Review
9. Balancing eBooks and Physical Books 19 2 Hydrogen Ions And Acidity Section Review
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 19 2 Hydrogen Ions And Acidity Section Review
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 19 2 Hydrogen Ions And Acidity Section Review
  - Setting Reading Goals 19 2 Hydrogen Ions And Acidity Section Review
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 19 2 Hydrogen Ions And Acidity Section Review
  - Fact-Checking eBook Content of 19 2 Hydrogen Ions And Acidity Section Review
  - 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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