

## 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 values and concentrations based on the pH and  $K_a$  or  $K_b$  and vice versa.
3. Calculate the pH of weak acids and bases.

## Vocabulary

- |                   |                             |                   |
|-------------------|-----------------------------|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. acid solution  |
| 4. autoionization | 5. weak acid                | 6. conjugate base |
|                   | 7. weak solution            | 8. pH             |

## Key Equation

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

## Part A Completion

Write the equation and/or the chemical formula(s) of the species involved in the reaction described in each problem. Be sure to include the correct state symbols.

1. Write the equation for the autoionization of water.
2. Write the equation for the autoionization of water.
3. Write the equation for the autoionization of water.
4. Write the equation for the autoionization of water.
5. Write the equation for the autoionization of water.
6. Write the equation for the autoionization of water.
7. Write the equation for the autoionization of water.
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10. Write the equation for the autoionization of water.
11. Write the equation for the autoionization of water.
12. Write the equation for the autoionization of water.
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14. Write the equation for the autoionization of water.
15. Write the equation for the autoionization of water.
16. Write the equation for the autoionization of water.
17. Write the equation for the autoionization of water.
18. Write the equation for the autoionization of water.
19. Write the equation for the autoionization of water.
20. Write the equation for the autoionization of water.

1.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
2.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
3.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
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13.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
14.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
15.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
16.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
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18.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
19.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
20.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$

# 19 2 Hydrogen Ions And Acidity Answer Key

**Ernest Henry Starling**



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## **Table of Contents 19 2 Hydrogen Ions And Acidity Answer Key**

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

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