

14.1

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Identify conjugate acid-base pairs of ions, acids, or hydroxides and of species associated with them.
2. Calculate hydroxide and hydronium ion concentrations and pH values and vice versa for weak acids and bases.
3. Calculate the pH of weak acid solutions.

Vocabulary

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

Key Equations

- | | |
|--|--|
| 1. $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$ (14.1) | 2. $\text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (14.2) |
| 3. $\text{pH} = -\log[\text{H}^+]$ (14.3) | 4. $\text{pH} = -\log[\text{H}_3\text{O}^+]$ (14.4) |

Part A: Completion

Use the appropriate number to identify the relationship of the species indicated that are associated in the reaction. Also indicate which species acts as the conjugate species.

1. What products are _____ when hydrochloric acid and methanol react? The conjugate of the acid is _____ and the conjugate of the base is _____.
2. Hydrochloric acid ionizes in water to _____ and _____.
3. _____ ionizes in water to _____ and _____.
4. _____ ionizes in water to _____ and _____.
5. _____ ionizes in water to _____ and _____.
6. _____ ionizes in water to _____ and _____.
7. _____ ionizes in water to _____ and _____.
8. _____ ionizes in water to _____ and _____.

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19 2 Hydrogen Ions And Acidity Section Review

M Woodhall



19 2 Hydrogen Ions And Acidity Section Review:

This book delves into 19 2 Hydrogen Ions And Acidity Section Review. 19 2 Hydrogen Ions And Acidity Section Review is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into 19 2 Hydrogen Ions And Acidity Section Review, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to 19 2 Hydrogen Ions And Acidity Section Review
 - Chapter 2: Essential Elements of 19 2 Hydrogen Ions And Acidity Section Review
 - Chapter 3: 19 2 Hydrogen Ions And Acidity Section Review in Everyday Life
 - Chapter 4: 19 2 Hydrogen Ions And Acidity Section Review in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of 19 2 Hydrogen Ions And Acidity Section Review. This chapter will explore what 19 2 Hydrogen Ions And Acidity Section Review is, why 19 2 Hydrogen Ions And Acidity Section Review is vital, and how to effectively learn about 19 2 Hydrogen Ions And Acidity Section Review.
 3. In chapter 2, the author will delve into the foundational concepts of 19 2 Hydrogen Ions And Acidity Section Review. The second chapter will elucidate the essential principles that must be understood to grasp 19 2 Hydrogen Ions And Acidity Section Review in its entirety.
 4. In chapter 3, this book will examine the practical applications of 19 2 Hydrogen Ions And Acidity Section Review in daily life. The third chapter will showcase real-world examples of how 19 2 Hydrogen Ions And Acidity Section Review can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of 19 2 Hydrogen Ions And Acidity Section Review in specific contexts. This chapter will explore how 19 2 Hydrogen Ions And Acidity Section Review is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about 19 2 Hydrogen Ions And Acidity Section Review. This chapter will summarize the key points that have been discussed throughout the book.
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