

16.1

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Identify conjugate acid-base pairs of ions, acids, or hydroxides and of aqueous acids/bases.
2. Calculate hydroxide and hydronium ion concentrations and pH/pOH and the associated logarithmic functions.
3. Calculate the pH/pOH of an aqueous solution.

Vocabulary

- | | | |
|-------------------|--------------------------------|-----------|
| 1. autoionization | 2. conjugate acid-base pair | 3. pH |
| 4. hydronium ion | 5. hydronium ion concentration | 6. pOH |
| 7. hydroxide ion | 8. hydroxide ion concentration | 9. pK_a |

Key Equations

- | | |
|---|-------------------------|
| 1. $[H_3O^+][OH^-] = 1.0 \times 10^{-14}$ (at 25°C) | 2. $pH = -\log[H_3O^+]$ |
| 3. $pH + pOH = 14$ (at 25°C) | 4. $pOH = -\log[OH^-]$ |

Part A: Completion

Use the appropriate number of significant figures in the answers to the following questions that are based on the following data: K_a for acetic acid is 1.8×10^{-5} .

1. What products are _____ when acetic acid reacts with hydroxide ions?
2. Write the chemical formula of the conjugate base of acetic acid.
3. Write the chemical formula of the conjugate acid of hydroxide ion.
4. Write the chemical formula of the conjugate base of hydroxide ion.
5. Write the chemical formula of the conjugate acid of acetic acid.
6. Write the chemical formula of the conjugate base of acetic acid.
7. Write the chemical formula of the conjugate acid of hydroxide ion.
8. Write the chemical formula of the conjugate base of hydroxide ion.
9. Write the chemical formula of the conjugate acid of acetic acid.
10. Write the chemical formula of the conjugate base of acetic acid.

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19 2 Hydrogen Ions And Acidity Answer Key

**Eugene Franz Roeber, Howard Coon
Parmelee**



19 2 Hydrogen Ions And Acidity Answer Key:

19 2 Hydrogen Ions And Acidity Answer Key Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**19 2 Hydrogen Ions And Acidity Answer Key**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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