

17.5

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Calculate concentrations based on the pH of acids and bases and vice versa.
2. Calculate pH values and concentrations of acids and bases and vice versa.
3. Calculate the pH of weak acid solutions.

Vocabulary

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

Key Equations

- | | |
|------------------------------------|----------------------------------------------|
| 1. $\text{pH} = -\log[\text{H}^+]$ | 2. $\text{pH} = -\log[\text{H}_3\text{O}^+]$ |
| 3. $\text{pH} = -\log[\text{H}^+]$ | 4. $\text{pH} = -\log[\text{H}_3\text{O}^+]$ |

Part A: Completion

Use the appropriate number to identify the relationship of the conjugate acid-base pair indicated in the second step of the acid-base reaction shown in the following equation.

1. _____ is the conjugate acid of _____.
2. _____ is the conjugate base of _____.
3. _____ is the conjugate acid of _____.
4. _____ is the conjugate base of _____.
5. _____ is the conjugate acid of _____.
6. _____ is the conjugate base of _____.
7. _____ is the conjugate acid of _____.
8. _____ is the conjugate base of _____.
9. _____ is the conjugate acid of _____.
10. _____ is the conjugate base of _____.

- | | |
|-----|-------|
| 1. | _____ |
| 2. | _____ |
| 3. | _____ |
| 4. | _____ |
| 5. | _____ |
| 6. | _____ |
| 7. | _____ |
| 8. | _____ |
| 9. | _____ |
| 10. | _____ |

19 2 Hydrogen Ions And Acidity Worksheet Answers

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Unveiling the Energy of Verbal Art: An Emotional Sojourn through **19 2 Hydrogen Ions And Acidity Worksheet Answers**

In a global inundated with displays and the cacophony of instantaneous connection, the profound energy and emotional resonance of verbal artistry frequently disappear in to obscurity, eclipsed by the continuous onslaught of noise and distractions. However, located within the musical pages of **19 2 Hydrogen Ions And Acidity Worksheet Answers**, a interesting work of fictional splendor that pulses with fresh thoughts, lies an unforgettable journey waiting to be embarked upon. Written by a virtuoso wordsmith, this enchanting opus instructions readers on a psychological odyssey, softly revealing the latent potential and profound influence stuck within the elaborate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is central styles, dissect their captivating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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