

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate concentrations based on the pH of a given acid or hydrogen ion concentration.
2. Calculate hydrogen ion concentrations from pH and pOH , and vice versa from pH and pOH .
3. Calculate the pH of a weak acid.

Vocabulary

- | | | |
|-------------------|-------------------------------|------------------|
| 1. autoionization | 2. hydrogen ion concentration | 3. acid solution |
| 4. autoionization | 5. pH | 6. acid solution |

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 hydrogen ion concentration or autoionization constant, if the missing quantity that is indicated in the partial equation below. Complete each equation as needed.

1. When $\text{pH} = 3.0$, the hydrogen ion concentration is _____.
2. The autoionization constant of water at 25°C is _____.
3. The pH of a solution with $[\text{H}^+] = 1.0 \times 10^{-4}$ is _____.
4. The pH of a solution with $[\text{H}^+] = 1.0 \times 10^{-10}$ is _____.
5. The pH of a solution with $[\text{H}^+] = 1.0 \times 10^{-12}$ is _____.
6. The pH of a solution with $[\text{H}^+] = 1.0 \times 10^{-14}$ is _____.
7. The pH of a solution with $[\text{H}^+] = 1.0 \times 10^{-16}$ is _____.

8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

Hydrogen Ions And Acidity Section Review Answers

**Kevin T. Patton, Frank B. Bell, Terry
Thompson, Peggie L. Williamson, Eric L
Sun**

Hydrogen Ions And Acidity Section Review Answers:

Hydrogen Ions And Acidity Section Review Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Hydrogen Ions And Acidity Section Review Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/About/detail/Documents/How%20To%20Survive%20Without%20A%20Salary.pdf>

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