

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Identify ionization levels based on the pH of acids and bases.
2. Calculate hydrogen ion concentration, molar concentration, and pH.
3. Calculate the pH of acids and bases.

Vocabulary

- | | | |
|-------------------|-----------------------------------|------------------|
| 1. autoionization | 2. hydrogen ion (H ⁺) | 3. acid solution |
| 4. autoionization | 5. molar concentration | 6. 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 hydrogen ion concentration, molar concentration, or the pH of acids and bases. Round answers to the correct number of significant figures.

1. What substance is _____, contains hydrogen ions, and ionizes in water?
2. What substance is _____, the concentration of which is measured in moles per liter?
3. Hydrochloric acid has a molar concentration of _____ M.
4. What is the _____ of a solution that has a pH of 4.5?
5. What is the _____ of a solution that has a pH of 10.5?
6. What is the _____ of a solution that has a pH of 1.5?
7. What is the _____ of a solution that has a pH of 10.5?
8. What is the _____ of a solution that has a pH of 1.5?

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

19 2 Hydrogen Ions And Acidity Worksheet Answers

Rod O'Connor



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[Films \(16mm, Super 8, and 8mm\) for College Chemistry](#) Advisory Council on College Chemistry,1969 **The**

Determination of Hydrogen Ions W. M. Clark,1923 *The Determination of Hydrogen Ions* Wilhelm Mansfield

Clark,1928 *The ABC of Hydrogen Ion Control* La Motte Chemical Products Company,William Anthony Taylor,1928

The ABC of Acid-base Chemistry ... Horace Willard Davenport,1974

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