

16.5

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Calculate concentrations based on the pH of a solution or calculate the pH of a solution based on its concentration.
2. Calculate the pH of a solution based on the concentration of a weak acid or base and its dissociation constant.
3. Calculate the pH of a solution based on the concentration of a weak acid or base and its dissociation constant.

Vocabulary

- | | | |
|-------------------|------------------------------------|-------------------|
| 1. autoionization | 2. dissociation constant (K_a) | 3. acid solution |
| 4. autoionization | 5. acid solution | 6. autoionization |
| | | 7. pH |

Key Equations

- | | |
|--|-------------------------------------|
| 1. $\text{pH} = -\log_{10} [\text{H}^+]$ | 2. $[\text{H}^+] = 10^{-\text{pH}}$ |
| 3. $\text{pH} = -\log_{10} [\text{H}^+]$ | 4. $[\text{H}^+] = 10^{-\text{pH}}$ |

Part A: Completion

Use the appropriate number to identify the relationship of the concept in parentheses that is indicated in the second space. Each correct answer consists of a circle number followed by a period.

1. When a substance ionizes, it _____ releases hydrogen ions into the solution. _____ is the concentration of these ions produced in a solution. _____ is the _____.
2. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution.
3. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution.
4. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution.
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7. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution. _____ is the concentration of a substance in a solution.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

19 2 Hydrogen Ions And Acidity Answer Key

Valerie C. Scanlon, Tina Sanders



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