

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

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

Vocabulary

- | | | |
|-------------------|-----------------------------|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. weak acid |
| 4. autoionization | 5. weak acid | 6. conjugate base |
| | 7. weak base | 8. 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 equation and/or the numerical value(s) of the quantity indicated that are indicated in the space provided. Be sure to include correct units and significant figures.

1. What substance is _____, a weak hydrogen ion donor?
2. _____ is the concentration of H^+ ions present in 100 mL of _____.
3. _____ is the concentration of _____ in _____.
4. _____ is the concentration of _____ in _____.
5. _____ is the concentration of _____ in _____.
6. _____ is the concentration of _____ in _____.
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19 2 Hydrogen Ions And Acidity Section Review Answers

**Kevin T. Patton, Gary A.
Thibodeau, Andrew Hutton**



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