

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

Vocabulary

- | | | |
|-------------------|-----------------------------|--------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. acid solution |
| 4. autoionization | 5. acid rain | 6. buffer solution |
| | 7. acid solution | 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 problem. Be sure to include the correct units and significant figures.

1. What substance is _____, a weak hydrogen ion donor?
2. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
3. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
4. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
5. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
6. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
7. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
8. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
9. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
10. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
11. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
12. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
13. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
14. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
15. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
16. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
17. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
18. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
19. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.
20. _____ is the concentration of H^+ ions in a solution at 25°C and is equal to _____.

1. _____
2. _____
3. _____
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6. _____
7. _____
8. _____
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10. _____
11. _____
12. _____
13. _____
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16. _____
17. _____
18. _____
19. _____
20. _____

Section 19 2 Hydrogen Ions And Acidity Answer Key

M Lipman



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