

14.1

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Identify conjugate acid-base pairs of ions, acids, or hydroxides and of aqueous concentrations.
2. Calculate hydroxide and hydronium ion concentrations and pH values and vice versa for weak acids and bases.
3. Calculate the pH of weak acid solutions.

Vocabulary

- | | | |
|-------------------|------------------------------------|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. weak acid |
| 4. hydronium | 5. hydroxide ion (OH^-) | 6. autoionization |
| | 7. weak base | 8. pH |

Key Equations

- | | |
|--|--|
| 1. $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$ (14.1) | 2. $\text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (14.2) |
| 3. $\text{pH} = -\log[\text{H}^+]$ (14.3) | 4. $\text{pOH} = -\log[\text{OH}^-]$ (14.4) |

Part A: Completion

Use the appropriate number to identify the relationship of the conjugate acid-base pair indicated in the second step. Each choice is identified with a number in parentheses.

1. What product is the _____ of a weak hydroxide ion and a hydronium ion? (14.1)
2. The conjugate base of a weak acid is _____.
3. _____ is the conjugate acid of a weak base.
4. _____ is the conjugate base of a weak acid.
5. _____ is the conjugate acid of a weak base.
6. _____ is the conjugate base of a weak acid.
7. _____ is the conjugate acid of a weak base.
8. _____ is the conjugate base of a weak acid.
9. _____ is the conjugate acid of a weak base.
10. _____ is the conjugate base of a weak acid.
11. _____ is the conjugate acid of a weak base.
12. _____ is the conjugate base of a weak acid.
13. _____ is the conjugate acid of a weak base.
14. _____ is the conjugate base of a weak acid.
15. _____ is the conjugate acid of a weak base.
16. _____ is the conjugate base of a weak acid.
17. _____ is the conjugate acid of a weak base.
18. _____ is the conjugate base of a weak acid.
19. _____ is the conjugate acid of a weak base.
20. _____ is the conjugate base of a weak acid.

1. _____

2. _____

3. _____

4. _____

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6. _____

7. _____

8. _____

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10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

19 2 Hydrogen Ions And Acidity Answers

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