

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 a given pH.
3. Calculate the pH of weak acid solutions.

Vocabulary

- | | | |
|-------------------|--------------------------------|--------------------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. pH |
| 4. hydronium ion | 5. hydronium ion concentration | 6. hydronium ion concentration |
| | 7. hydroxide ion | 8. pK_a |

Key Equations

- | | |
|--|------------------------------------|
| 1. $[H_3O^+][OH^-] = 1.0 \times 10^{-14}$ (Eq. 14.1) | 2. $pH = -\log[H_3O^+]$ (Eq. 14.2) |
| 3. $pH = -\log[H_3O^+]$ (Eq. 14.3) | 4. $pH = -\log[H_3O^+]$ (Eq. 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 correct response receives a score of one. Complete the problem.

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

1. _____
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web the haunted mask part 2 directed by timothy bond with kathryn long colin fox kathryn short brenda bazinet frightened by her new face carly beth begs the shop owner to remove the mask but he says he cannot the only way it can be removed however is if she finds a symbol of love

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