

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and pK_a and pK_b for weak acids and bases.
2. Calculate K_a and K_b for weak acids and bases, and pK_a and pK_b for weak acids and bases.
3. Calculate the pH of weak acid and base solutions.

Vocabulary

- | | | |
|-----------------|--------------------------------------|-----------------|
| acid | acid dissociation constant (K_a) | acid ionization |
| acidic solution | acidic solution | acidic solution |
| acidic solution | acidic solution | acidic solution |

Key Equations

- | | |
|---|--|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ (Equation 19.1) | $K_b = \frac{[OH^-][HB^+]}{[B]}$ (Equation 19.2) |
|---|--|

Part A Completion

Write the K_a expression for the acid dissociation constant for each of the following acids. Write the K_b expression for the base dissociation constant for each of the following bases.

1. HNO_3 (strong acid)
2. H_2SO_4 (strong acid)
3. $HClO_4$ (strong acid)
4. H_2SO_3 (weak acid)
5. H_2CO_3 (weak acid)
6. $H_2PO_4^-$ (weak acid)
7. $H_2PO_4^-$ (weak acid)
8. $H_2PO_4^-$ (weak acid)
9. $H_2PO_4^-$ (weak acid)
10. $H_2PO_4^-$ (weak acid)
11. $H_2PO_4^-$ (weak acid)
12. $H_2PO_4^-$ (weak acid)
13. $H_2PO_4^-$ (weak acid)
14. $H_2PO_4^-$ (weak acid)
15. $H_2PO_4^-$ (weak acid)
16. $H_2PO_4^-$ (weak acid)
17. $H_2PO_4^-$ (weak acid)
18. $H_2PO_4^-$ (weak acid)
19. $H_2PO_4^-$ (weak acid)
20. $H_2PO_4^-$ (weak acid)

1. HNO_3 (strong acid)
2. H_2SO_4 (strong acid)
3. $HClO_4$ (strong acid)
4. H_2SO_3 (weak acid)
5. H_2CO_3 (weak acid)
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7. $H_2PO_4^-$ (weak acid)
8. $H_2PO_4^-$ (weak acid)
9. $H_2PO_4^-$ (weak acid)
10. $H_2PO_4^-$ (weak acid)
11. $H_2PO_4^-$ (weak acid)
12. $H_2PO_4^-$ (weak acid)
13. $H_2PO_4^-$ (weak acid)
14. $H_2PO_4^-$ (weak acid)
15. $H_2PO_4^-$ (weak acid)
16. $H_2PO_4^-$ (weak acid)
17. $H_2PO_4^-$ (weak acid)
18. $H_2PO_4^-$ (weak acid)
19. $H_2PO_4^-$ (weak acid)
20. $H_2PO_4^-$ (weak acid)

19 2 Hydrogen Ions And Acidity Section Review

Kevin T. Patton, Gary A. Thibodeau



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