

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate K_a and K_b for weak acids and bases, and calculate pK_a and pK_b for weak acids and bases.
2. Calculate K_a and K_b for weak acids and bases, and calculate 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 constant (K_a) |
| 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) |
| $pH = -\log[H^+]$ (Equation 19.3) | $pOH = -\log[OH^-]$ (Equation 19.4) |

Part A Completion

Write the chemical formula for each of the following acids, bases, and salts, and give their K_a and K_b values.

1. Acetic acid, CH_3COOH
2. Hydrofluoric acid, HF
3. Hydrochloric acid, HCl
4. Hydrobromic acid, HBr
5. Hydroiodic acid, HI
6. Nitric acid, HNO_3
7. Sulfuric acid, H_2SO_4
8. Sulfurous acid, H_2SO_3
9. Carbonic acid, H_2CO_3
10. Phosphoric acid, H_3PO_4
11. Phosphorous acid, H_3PO_3
12. Boric acid, H_3BO_3
13. Hydrocyanic acid, HCN
14. Hydrogen cyanide, HCN
15. Hydrogen sulfide, H_2S
16. Sulfuric acid, H_2SO_4
17. Sulfurous acid, H_2SO_3
18. Carbonic acid, H_2CO_3
19. Phosphoric acid, H_3PO_4
20. Phosphorous acid, H_3PO_3
21. Boric acid, H_3BO_3

1. Acetic acid, CH_3COOH
2. Hydrofluoric acid, HF
3. Hydrochloric acid, HCl
4. Hydrobromic acid, HBr
5. Hydroiodic acid, HI
6. Nitric acid, HNO_3
7. Sulfuric acid, H_2SO_4
8. Sulfurous acid, H_2SO_3
9. Carbonic acid, H_2CO_3
10. Phosphoric acid, H_3PO_4
11. Phosphorous acid, H_3PO_3
12. Boric acid, H_3BO_3
13. Hydrocyanic acid, HCN
14. Hydrogen cyanide, HCN
15. Hydrogen sulfide, H_2S
16. Sulfuric acid, H_2SO_4
17. Sulfurous acid, H_2SO_3
18. Carbonic acid, H_2CO_3
19. Phosphoric acid, H_3PO_4
20. Phosphorous acid, H_3PO_3
21. Boric acid, H_3BO_3

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