

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) | base |
| acidic solution | acidic solution | base dissociation constant (K_b) |
| acidic solution | acidic solution | base dissociation constant (K_b) |

Key Equations

- | | |
|---------------------------------|----------------------------------|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ | $K_b = \frac{[OH^-][HB^+]}{[B]}$ |
| $pH = -\log[H^+]$ | $pOH = -\log[OH^-]$ |

Part A Completion

Write the chemical formula for each of the following acids, bases, and salts. Also, write the chemical formula for each of the following acids, bases, and salts.

1. Hydrochloric acid, HCl , Cl^- , H_2O , H_3O^+
2. Acetic acid, CH_3COOH , CH_3COO^- , H^+ , H_2O
3. Nitric acid, HNO_3 , NO_3^- , H^+ , H_2O
4. Sulfuric acid, H_2SO_4 , HSO_4^- , H^+ , H_2O
5. Phosphoric acid, H_3PO_4 , $H_2PO_4^-$, H^+ , H_2O
6. Hydrofluoric acid, HF , F^- , H^+ , H_2O
7. Hydrobromic acid, HBr , Br^- , H^+ , H_2O
8. Hydroiodic acid, HI , I^- , H^+ , H_2O
9. Hydrocyanic acid, HCN , CN^- , H^+ , H_2O
10. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
11. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
12. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
13. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
14. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
15. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
16. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
17. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
18. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
19. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O
20. Hydroperfluoroboric acid, HF_3BO_3 , BF_3 , H^+ , H_2O

1. Hydrochloric acid, HCl , Cl^- , H_2O , H_3O^+
2. Acetic acid, CH_3COOH , CH_3COO^- , H^+ , H_2O
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