

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

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

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 , $HClO_4$, HNO_3 , H_2SO_4
2. Acetic acid, CH_3COOH , CH_3COO^- , CH_3COO^-
3. Nitric acid, HNO_3 , HNO_2 , HNO_3 , HNO_2
4. Sulfuric acid, H_2SO_4 , H_2SO_4 , H_2SO_4 , H_2SO_4
5. Phosphoric acid, H_3PO_4 , H_3PO_4 , H_3PO_4 , H_3PO_4
6. Hydrofluoric acid, HF , HF , HF , HF
7. Hydrobromic acid, HBr , HBr , HBr , HBr
8. Hydroiodic acid, HI , HI , HI , HI
9. Hydrocyanic acid, HCN , HCN , HCN , HCN
10. Hydroperchloric acid, $HClO_4$, $HClO_4$, $HClO_4$, $HClO_4$
11. Hydroperbromic acid, $HBrO_4$, $HBrO_4$, $HBrO_4$, $HBrO_4$
12. Hydroperiodic acid, HIO_4 , HIO_4 , HIO_4 , HIO_4
13. Hydroperacetic acid, CH_3COOOH , CH_3COOOH , CH_3COOOH , CH_3COOOH
14. Hydroperoxyacetic acid, CH_3COOOH , CH_3COOOH , CH_3COOOH , CH_3COOOH
15. Hydroperoxyacetic acid, CH_3COOOH , CH_3COOOH , CH_3COOOH , CH_3COOOH

1. Hydrochloric acid, HCl
2. Acetic acid, CH_3COOH
3. Nitric acid, HNO_3
4. Sulfuric acid, H_2SO_4
5. Phosphoric acid, H_3PO_4
6. Hydrofluoric acid, HF
7. Hydrobromic acid, HBr
8. Hydroiodic acid, HI
9. Hydrocyanic acid, HCN
10. Hydroperchloric acid, $HClO_4$
11. Hydroperbromic acid, $HBrO_4$
12. Hydroperiodic acid, HIO_4
13. Hydroperacetic acid, CH_3COOOH
14. Hydroperoxyacetic acid, CH_3COOOH
15. Hydroperoxyacetic acid, CH_3COOOH

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