

## 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 |
| 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. Ammonia,  $NH_3$ ,  $NH_4^+$ ,  $NH_4^+$
4. Sulfuric acid,  $H_2SO_4$ ,  $HSO_4^-$ ,  $SO_4^{2-}$
5. Nitric acid,  $HNO_3$ ,  $NO_3^-$ ,  $NO_3^-$
6. Hydrofluoric acid,  $HF$ ,  $F^-$ ,  $F^-$
7. Hydrobromic acid,  $HBr$ ,  $Br^-$ ,  $Br^-$
8. Hydroiodic acid,  $HI$ ,  $I^-$ ,  $I^-$
9. Hydrocyanic acid,  $HCN$ ,  $CN^-$ ,  $CN^-$
10. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
11. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
12. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
13. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
14. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
15. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
16. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
17. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
18. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
19. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$
20. Hydroperfluoroboric acid,  $HFBO_2$ ,  $HFBO_2^-$ ,  $HFBO_2^-$

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# 19 2 Hydrogen Ions And Acidity Section Review

**Juha P. Kokko, Richard L. Tannen**



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