

## 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) |
|---|--|

## Part A Completion

Write the  $K_a$  expression for each of the following weak acids, and calculate the  $K_a$  value for each acid. (Use the  $K_a$  values from the table below.)

1. Acetic acid,  $CH_3COOH$
2. Hydrofluoric acid,  $HF$
3. Hydrocyanic acid,  $HCN$
4. Hydrobromic acid,  $HBr$
5. Hydroiodic acid,  $HI$
6. Hydrochloric acid,  $HCl$
7. Hydroperchloric acid,  $HClO_4$
8. Hydroperbromic acid,  $HBrO_4$
9. Hydroperchloric acid,  $HClO_4$
10. Hydroperbromic acid,  $HBrO_4$
11. Hydroperchloric acid,  $HClO_4$
12. Hydroperbromic acid,  $HBrO_4$
13. Hydroperchloric acid,  $HClO_4$
14. Hydroperbromic acid,  $HBrO_4$
15. Hydroperchloric acid,  $HClO_4$
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20. Hydroperbromic acid,  $HBrO_4$

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18. Hydroperbromic acid,  $HBrO_4$
19. Hydroperchloric acid,  $HClO_4$
20. Hydroperbromic acid,  $HBrO_4$

# 19 2 Hydrogen Ions And Acidity Section Review

**Clemens Wendtner**



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