

## 17.1

## HYDROGEN IONS AND ACIDITY

## Section Overview

## Objectives

1. Identify conjugate acid-base pairs of ions, acids, or hydroxides and of aqueous concentrations.
2. Calculate hydroxide and hydronium ion concentrations and pH values and vice versa for weak acids and bases.
3. Calculate the pH of weak acid solutions.

## Vocabulary

- |                   |   |                   |
|-------------------|---|-------------------|
| 1. autoionization | 2. conjugate acid-base pair             | 3. weak acid/base |
| 4. hydronium ion  | 5. acid dissociation constant ( $K_a$ ) | 6. hydroxide ion  |
|                   | 7. weak base                            | 8. pH             |

## Key Equations

- |  |  |
|--|--|
| 1. $K_a = \frac{[\text{H}_3\text{O}^+][\text{A}^-]}{[\text{HA}]}$ (Eq. 17.1) | 2. $K_b = \frac{[\text{B}][\text{OH}^-]}{[\text{BOH}]}$ (Eq. 17.2) |
| 3. $\text{pH} = -\log[\text{H}_3\text{O}^+]$ (Eq. 17.3)                      | 4. $\text{pOH} = -\log[\text{OH}^-]$ (Eq. 17.4)                    |

## Part A: Completion

Use the appropriate number to identify the relationship of the conjugate acid-base pair indicated in the second step of the reaction. Write the number in the space provided.

1.  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  (autoionization of water)
2.  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  (conjugate acid-base pair)
3.  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  (conjugate acid-base pair)
4.  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  (conjugate acid-base pair)
5.  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  (conjugate acid-base pair)
6.  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  (conjugate acid-base pair)
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10.  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  (conjugate acid-base pair)

1. conjugate acid
2. conjugate base
3. conjugate acid
4. conjugate base
5. conjugate acid
6. conjugate base
7. conjugate acid
8. conjugate base
9. conjugate acid
10. conjugate base

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