

## 21.1

## NEUTRALIZATION REACTIONS

## SECTION REVIEW

## Objectives

- Explain how acid–base titrations is used to calculate the concentration of an acid or a base.
- Explain the concept of equivalence in neutralization reactions.

## Key Terms

- neutralization reactions
- standard solution
- titration
- end point
- equivalent (equiv)
- gram equivalent mass
- normality (N)
- equivalent point

## Key Equations

- Acid + Base  $\rightarrow$  Salt + Water
- Grams equivalent mass =  $\frac{\text{molar mass}}{\text{number of H}^+ \text{ or OH}^- \text{ ions}}$
- Normality (N) = equiv/L
- $M_1 V_1 = M_2 V_2 = N_1 V_1 = N_2 V_2$
- $M_1 \times V_1 = M_2 \times V_2$

## Part A Completion

Use their completion exercises to check your understanding of the concepts and terms that are emphasized in this section. Write clearly on the completed work a short, direct phrase, sentence.

In the reaction of an \_\_\_\_\_ with a base, hydrogen ions and \_\_\_\_\_ ions react to produce \_\_\_\_\_. This reaction, called \_\_\_\_\_, is usually carried out by \_\_\_\_\_. The \_\_\_\_\_ is a titration is the point at which the solution is neutral. At the \_\_\_\_\_ point of a titration, the number of equivalents of acid equals the number of equivalents of base.

An equivalent of acid is the \_\_\_\_\_ of the acid that provides \_\_\_\_\_ of hydrogen ions in solution. A solution that contains one equivalent of an acid or a base in one liter of solution is a one normal (1N) solution. Thus, a 2N solution of  $\text{H}_2\text{SO}_4$  contains \_\_\_\_\_ of  $\text{H}^+$  per liter of solution.

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## Section 21 1 Neutralization Reactions Answers

**Michael Rajnik**



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