

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

- $\text{Acid} + \text{Base} \rightarrow \text{Salt} + \text{Water}$
- 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 correct answer, or a new term.

In the reaction of an _____ 1 _____ with a base, hydrogen ions and _____ 2 _____ ions react to produce _____ 3 _____. This reaction, called _____ 4 _____, is usually carried out by _____ 5 _____. The _____ 6 _____ is a titration is the point at which the solution is neutral. At the _____ 7 _____ point of a titration, the number of equivalents of acid equals the number of equivalents of base.

An equivalent of acid is the _____ 8 _____ of the acid that provides _____ 9 _____ 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 H_2SO_4 contains _____ 10 _____ of H^+ per liter of solution.

- _____
- _____
- _____
- _____
- _____
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- _____
- _____
- _____
- _____

21 1 Neutralization Reactions Section Review Answers

Dean Hurd



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The Big Picture and Cycle of Life sections in each chapter help you comprehend the interrelation of body systems and how the structure and function of these change in relation to age and development Interesting sidebars include boxed features such as Language of Science and Language of Medicine Mechanisms of Disease Health Matters Diagnostic Study FYI Sport and Fitness and Career Choices Learning features include outlines key terms and study hints at the start of each chapter Chapter summaries review questions and critical thinking questions help you consolidate learning after reading each chapter Quick Check questions in each chapter reinforce learning by prompting you to review what you have just read UNIQUE Comprehensive glossary includes more terms than in similar textbooks each with an easy pronunciation guide and simplified translation of word parts essential features for learning to use scientific and medical terminology NEW Updated content reflects more accurately the diverse spectrum of humanity NEW Updated chapters include Homeostasis Central Nervous System Lymphatic System Endocrine Regulation Endocrine Glands and Blood Vessels NEW Additional and updated Connect It articles on the Evolve website called out in the text help to illustrate clarify and apply concepts NEW Seven guided 3 D learning modules are included for Anatomy Physiology

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 - Chapter 3: 21 1 Neutralization Reactions Section Review Answers in Everyday Life
 - Chapter 4: 21 1 Neutralization Reactions Section Review Answers in Specific Contexts
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