

# CHAPTER 14 STUDY GUIDE

## Mixtures and Solutions

### Section 14.1 Heterogeneous and Homogeneous Mixtures

*In your textbook, read about suspensions and colloids.*

For each statement below, write *true* or *false*.

- \_\_\_\_\_ 1. A solution is a mixture containing particles that settle out of the mixture if left undisturbed.
- \_\_\_\_\_ 2. The most abundant substance in a colloid is the dispersion medium.
- \_\_\_\_\_ 3. A colloid can be separated by filtration.
- \_\_\_\_\_ 4. A solid emulsion consists of a liquid dispersed in a solid.
- \_\_\_\_\_ 5. Whipped cream is an example of a foam.
- \_\_\_\_\_ 6. In an aerosol, the dispersing medium is a liquid.
- \_\_\_\_\_ 7. Brownian motion results from the collisions of particles of the dispersion medium with the dispersed particles.
- \_\_\_\_\_ 8. Dispersed particles in a colloid do not tend to settle out because they have polar or charged atomic groups on their surfaces.
- \_\_\_\_\_ 9. Stirring an electrolyte into a colloid stabilizes the colloid.
- \_\_\_\_\_ 10. Colloids demonstrate the Tyndall effect.

The table below lists the characteristics of particles in colloids, solutions, and suspensions. Place a check in the column of each mixture whose particles have a particular characteristic.

Characteristics of Particles	Colloid	Solution	Suspension
11. Less than 1 nm in diameter			
12. Between 1 nm and 1000 nm in diameter			
13. More than 1000 nm in diameter			
14. Settle out if undisturbed			
15. Pass through standard filter paper			
16. Lower vapor pressure			
17. Scatter light			

# Chemistry Study Guide For Mixtures And Solutions

**Leo J. Malone, Theodore O. Dolter**



## **Chemistry Study Guide For Mixtures And Solutions:**

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment. New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections, assessment exercises at the end of each section, and relevant chapter problems at the end of each chapter. A new Math Check allows quick access to the needed basic skill. The first chapter now includes brief introductions to several fundamental chemical concepts, and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem. Every concept in the text is clearly illustrated with one or more step-by-step examples. Making it Real essays have been updated to present timely and engaging real-world applications, emphasizing the relevance of the material they are learning. This edition continues the end-of-chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter. *Organic Chemistry Study Guide with Solutions Manual* Neil E.

Schore, 2007 The guide includes chapter introductions that highlight new material, chapter outlines, detailed comments for each chapter section, a glossary, and solutions to the end-of-chapter problems presented in a way that shows students how to reason their way to the answer. **The Practice of Chemistry Study Guide & Solutions Manual** Pamela Mills, Amina El-Ashmawy, 2003-04-14 Designed to help students understand the material better and avoid common mistakes. Also includes solutions and explanations to odd-numbered exercises. *Chemical Principles Study Guide/Solutions Manual* John

Krenos, Joseph Potenza, Carl Hoeger, 2007-01-18 Written for general chemistry courses. Chemical Principles helps students develop chemical insight by showing the connection between chemical principles and their applications. Organic Chemistry, Student Study Guide and Solutions Manual David R. Klein, 2017-01-04 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 3e. Organic Chemistry 3rd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis. Success in organic chemistry requires mastery in two core aspects: fundamental concepts and the skills needed to apply those concepts and solve problems. Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills. These skills are vital for successful problem solving in organic chemistry. Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems. **Chemistry, Student Study Guide** James E. Brady, Fred

Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst. Carbon nanotubes are a recently discovered allotrope of carbon. Three other allotropes of carbon, buckyballs, graphite, and diamond, are illustrated at the left, as is the molecule methane, CH<sub>4</sub>, from which nanotubes and buckyballs can be made. The element carbon forms an amazing number of compounds with

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