



Solubility Study Guide

Name _____
Teacher: _____
Date: _____
Period: _____

References

Chemistry in the Community pp 45-65
Water properties concept map
Solubility concept map
Solubility, graphing and analysis
Solubility Practice: A Curvy Subject
Study Solvent Lab

Vocabulary

Understand and apply the definitions or symbols of the following terms.

Colligative properties

Solute

Distillation

Solvent

Filtration

Solution

Homogeneous

Supersaturated

Mixtures

Saturated

Nonpolar

Unsaturated

Polar

$\delta+$ and $\delta-$

Pure substances

Solubility

Targeted Skills

1. Describe the structure of water and relate its unusual physical properties to its structure, high boiling point, surface tension, high specific heat.
2. Draw the structure of water and relate its structure to the ability of water to act as a universal solvent.
3. Compare/contrast the solubilities of various ionic and covalent solutes.
4. Apply: Like dissolves like:
 - Polar solvents dissolve Polar and Ionic solutes
 - Nonpolar solvents dissolve Nonpolar solutes
5. Describe factors that affect the rate of dissolving, such as particle size, stirring, temperature, nature of the solid solutes.
6. Interpret information from a solubility curve (graph).

Make sure you remember from past tests?

Atomic structure

Significant figures

Accuracy & precision

Equations:(extension)

$$\text{Solution concentration} = \frac{\text{amount of solute}}{\text{amount solute} + \text{solvent}}$$

Test Breakdown

30 Multiple-Choice Problems (max.) – 60%

1 Free Response Problem chosen from the Free Response Test Bank – 10%

1 Open-Ended Problem chosen from the Open-Ended Test Bank – 10%

1 Performance Assessment – 20%

Solubility Study Guide

John William Hill, Dorothy M. Feigl

Solubility Study Guide:

Study Guide for Chemical Principles [by] Steven S. Zumdahl Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text. The new edition of the Study Guide includes many new worked out examples [Study Guide to Chemistry and Life](#) John William Hill, Dorothy M. Feigl, 1978

Hazmat Chemistry Study Guide (Second Edition) Jill Meryl Levy, 2011 **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 [Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition](#) John McMurry, Susan

McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter **General Chemistry, Study Guide** James E. Brady, 1990-03-01 The Fifth Edition retains the pedagogical strengths that made the previous editions so popular and has been updated, reorganized and streamlined. Changes include more accessible introductory chapters with greater stress on the logic of the periodic table, earlier introduction of redox reactions, greater emphasis on the concept of energy, a new section on Lewis structures, earlier introduction of the ideal gas law and a new development of thermodynamics. Each chapter ends with review questions and problems [Study Guide for Chang's Chemistry](#) Kenneth W. Watkins, 1988 **Robinson Chemistry Study Guide**

Robinson, 1992 [Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry](#) Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One

Ladies looking for a darker, more realistic view of Botswana. Sue Baker Publishing News [Study Guide and Glossary to Accompany Chemical Principles](#) Daniel L. Reger, Edward E. Mercer, Robert S. Boikess, 1978 [General, Organic, and Biological Chemistry Study Guide and Selected Solutions](#) Karen C. Timberlake, 2001-11 Keyed to the learning goals in the text, this guide is designed to promote active learning through a variety of exercises with answers and mastery exams. The guide also contains complete solutions to odd numbered problems **Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry** Katherine J. Denniston, Denniston, Katherine, 2006 **Chemistry, Study Guide**

Bernice G. Segal, Peter S. Shenkin, 1989-02-14 This Second Edition of the first year chemistry text known for its clarity of exposition and its large number of illustrative worked problems contains a more rigorous treatment of electrochemistry, chemical equilibrium and thermochemistry. Worked examples now number over 300 and exercises over 1460 **Organic Chemistry, 5e Student Study Guide and Solutions Manual** David R. Klein, Laurie S.

Starkey, 2025-03-04 Success in organic chemistry requires mastery in two core aspects: fundamental concepts and the skills needed to apply those concepts and solve problems. With **Organic Chemistry Student Study Guide and Solutions Manual** 5th Edition, students can 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 Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh,2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application Laboratory Manual and Study Guide, Physical Science for Progress Milton O. Pella,1970 **Study Guide for Mortimer's Chemistry, Sixth Edition** Donald W. Shive,Louise E. Shive,1986 *Study Guide and Full Solutions Manual* Susan McMurry,John McMurry,2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e Kenneth W. Raymond,2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond's text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry Medical Technology Examination Review and Study Guide Anna P. Ciulla,Georganne K. Buescher,1992 This self examination review is designed to prepare students for exams such as the US National Certificate Examinations Over 200 multiple choice and objective questions are accompanied by detailed explanations The new edition features a practice exam and additional case study questions

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