



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
Distillation
Filtration
Homogeneous
Mixtures
Nonpolar
Polar
Pure substances
Solubility

Solute
Solvent
Solution
Supersaturated
Saturated
Unsaturated
 δ^+ and δ^-

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)

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

W. David Yates



Solubility Study Guide:

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

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 Student's Study Guide & Solutions Manual John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text

ACT Prep Plus 2024: Study Guide Includes 5 Full Length Practice Tests, 100s of Practice Questions, and 1 Year Access to Online Quizzes and Video Instruction Kaplan Test Prep, 2023-06-06 Provides exam content review score raising strategies practice questions with detailed answer explanations for each part of the exam and a full length practice tests along with additional online resources

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 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

ACT Prep Plus 2025: Study Guide Includes 5 Full Length Practice Tests, 100s of Practice Questions, and 1 Year Access to Online Quizzes and Video Instruction Kaplan Test Prep, 2024-06-04 Kaplan s ACT Prep Plus 2025 has the detailed subject review practice tests and expert strategies you need to be prepared for test day This ACT prep book includes hundreds of practice questions online practice tests and video lessons from our experts to help you face test day with confidence

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

MCAT Complete; Medical College Admission Test Comprehensive Study Guide Physical Sciences;

Biological Sciences; Verbal Reasoning James Adams, Maryn Munley, Nathan Eisenbeis, Caroline Miller, Jesse Shetler, 2021-10-12 The MCAT The Medical College Admission Test MCAT is a standardized multiple choice examination designed to assess the examinee's problem solving critical thinking and knowledge of science concepts and principles prerequisite to the study of medicine Scores are reported in Physical Sciences Verbal Reasoning and Biological Sciences Study guide covers AAMC Association of American Medical Colleges content Physical Sciences Biological Sciences Verbal Reasoning Mathematics Concepts The Cell Chromosomes Reproduction Implantation Microorganisms Biochemistry Human Physiology The Heart The Lymphatic System GI Tract Musculoskeletal System Kidney Hormones Nerves Skin Genetics Populations and Evolution Elements Hund's Rule and Radiation The Periodic Table Covalent Bonds Molecular Shapes General Chemistry Kinetic Molecular Theory Phase Change Solutions Oxidation Numbers Entropy Acids and Bases Galvanic and Electrolytic Cells Carbon Stereochemistry Alkanes and Alkenes Hydrogen Bonding Alcohols Phenols Aldehydes and Ketones m Carboxylic Acids Ether Ammonia Amino Acids Carbohydrates Spectroscopy Separation and Distillation Vectors and Simple Motion Forces Circular and Projectile Motion Statics Center of Gravity Work and Energy Power and Momentum Stress and Strain Elasticity and Density Hydrostatic Pressure Fluids in Motion Electricity and Magnetism Plates Capacitors Voltage Batteries Resistors Magnetic Fields Waves and Periodic Motion Sound Waves Doppler Effect Simple Harmonic Motion Optics Mirrors 205 pages

The Complete PCAT Study Guide Pasquale De Marco, 2025-07-10 Aspiring pharmacists your journey to success begins with The Complete PCAT Study Guide This comprehensive guide is meticulously crafted to empower you with the knowledge skills and strategies you need to excel in the PCAT navigate the pharmacy school application process and thrive in the dynamic field of pharmacy Within these pages you'll find an in depth exploration of the PCAT the standardized exam that serves as a gateway to pharmacy school Our expert guidance demystifies the exam's structure content and scoring system providing you with a clear roadmap for effective preparation Master the biological sciences organic and inorganic chemistry and quantitative abilities with our comprehensive review sections designed to strengthen your foundation and boost your confidence on exam day Beyond the PCAT The Complete PCAT Study Guide delves into the intricacies of pharmacy practice encompassing various specializations career opportunities and the personal qualities essential for success Discover the diverse roles of pharmacists in modern healthcare from community pharmacies to hospital settings and gain insights into the exciting possibilities that await you in this ever evolving field Learn about the rewarding career paths available including clinical pharmacy research academia and more As you progress through the chapters you'll uncover practical tips for navigating the pharmacy school application process securing financial aid and scholarships and adjusting to the rigors of pharmacy education We provide valuable advice on selecting the right program participating in extracurricular activities and building a strong network of peers and mentors Our guidance extends beyond the classroom offering strategies for developing strong communication and professional skills essential for effective patient

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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

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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

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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 thoseNumber One Ladieslooking for a darker more realistic view of Botswana Sue Baker Publishing News

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