

SOLUBILITY AND SOLUBILITY PRODUCT



Solubility and Solubility Product

Solubility vs Solubility Product		
	Solubility	Solubility Product
DEFINITION	Property of a substance to dissolve in a solvent	Mathematical derivation of the equilibrium between dissolved and undissolved species of a substance in solvent
THEORY	Describes the dissolution of a substance in a solvent	Describes mathematical product of the dissolved ion concentrations raised to the power of their stoichiometric coefficients
FACTORS	Depends on several factors such as temperature, pressure, pH, the presence of other chemicals, etc.	Depends on temperature

Solubility expresses the maximum concentration of solute in a solution. The solution with the maximum solute concentration is called a saturated solution. In a saturated solution, an equilibrium occurs so that it has an equilibrium constant called the solubility product constant (K_{sp}).

- **THE SOLUBILITY PRODUCT (K_{sp})** is the product of the concentrations of ions in a saturated solution raised to the power of the coefficient at a specific temperature. For example, in the electrolyte compound $L_xZ_y(s)$, the dissociation equation for the saturated solution is as follows.



$$K_{sp} = [L^{y+}]^x [Z^{x-}]^y$$

- **K_{sp} RELATIONSHIP WITH SOLUBILITY (S)**

- If the K_{sp} value is large, then the solubility value (s) is also large → the substance dissolves easily
- If the K_{sp} value is small, then the solubility value (s) is also small → the substance is difficult to dissolve

$$K_{sp} = (n-1)^{n-1} \times S^n \quad \text{or} \quad K_{sp} = ((a+b)-1)^{(a+b)-1} \times S^{(a+b)}$$

Study Guide Solubility And Concentration

John William Hill, Dorothy M. Feigl



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Fundamentals of Chemistry, Study Guide James E. Brady, John R. Holum, 1988-04-20 This Third Edition of the widely used fundamentals textbook for science majors maintains the conversational writing style that made the previous editions so popular while including up to date treatments of important and current topics Emphasizes descriptive chemistry chemical reactions and properties while maintaining a solid treatment of chemical principles Common chemicals are used whenever possible as examples in both theoretical discussions and in problems and exercises Incorporates many pedagogical aids each chapter begins with a brief table of contents and each section begins with a preview of topics covered Chapters include frequent margin comments figures and photographs

Study Guide to accompany Basic Concepts of Chemistry, 7th Edition Leo J. Malone, 2003-02-20 Work more effectively and gauge your progress along the way This Study Guide that is designed to accompany Malone's Chemistry 7th Edition includes chapter summaries new terms self tests answers to self tests and solutions to selected problems This easy to read introduction presents chemistry as a living relevant science Chemistry 7th Edition encourages critical thinking and helps readers overcome the math difficulties that often prevent them from developing a full understanding of the subject This new seventh edition builds on its core strengths of pedagogy driving the connections between ideas mathematics in context not just an appendix and an extensive problem solving emphasis with an updated design and more molecular art In addition the seventh edition expands its applications and online options One of the briefest books in the market it still provides sufficient depth for the basic concepts of chemistry

Organic Chemistry Reactions: A Study Guide Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com

Critical Care Study Guide Gerard J. Criner, Rodger E. Barnette, Gilbert E. D'Alonzo, 2010-06-27 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states require extensive knowledge and up to date clinical information An extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and treatments that are used to optimize care in the critically ill is essential Since our first edition 7 years ago new information crucial to the care and understanding of the critically ill patient has rapidly accumulated Because this knowledge base crosses many different disciplines a comprehensive multidisciplinary approach presenting the information is essential similar to the multidisciplinary approach that is used to care for the critically ill patient We have

strived to provide this content in an easily digestible format that uses a variety of teaching tools to facilitate understanding of the presented concepts and to enhance information retention To meet the demand to provide comprehensive and diverse education in order to understand the pathogenesis and optimum care of a variety of critical illnesses we have substantially revised the prior topics in the first edition with updated information We have also markedly expanded the number of topics covered to include acute lung injury and the acute respiratory distress syndrome an expanded discussion of the physiology and operation of mechanical ventilation obstetrical care in the ICU neurosurgical emergencies acute coronary syndromes cardiac arrhythmias role of whole body rehabilitation in the ICU ethical conduct of human research in the ICU and nursing care of the ICU patient

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

Basic Concepts of Chemistry, Study Guide Leo J. Malone, 2000 The text's three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry Designed to help readers master the principles of general chemistry As a prep book it promotes active involvement with the material There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills Updated to Include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems

Laboratory Directions and Study Questions in Inorganic Chemistry Alexander Silverman, 1919

Study Guide for Chemistry, Third Edition [by] Steven S. Zumdahl Paul B. Kelter, 1993

Study Questions and Problems in Inorganic Chemistry Alexander Silverman, 1924

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 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

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 *Chemistry for Nerds Guide Book: Chemistry, Science, Nerd, Geek, Textbook, Guidebook, Study Guide, Educational, STEM, Science Gift*

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