

Name : _____ Date : _____

Score : _____

Solubility Rules Practice Worksheet

1. Classify each substance as being soluble or insoluble in water.

I. $\text{Mg}(\text{PO}_4)_2$ - _____

VI. KBr - _____

II. KOH - _____

VII. $\text{Pb}(\text{CO}_3)_2$ - _____

III. NiCl_2 - _____

VIII. PbI_2 - _____

IV. NH_4OH - _____

IX. BaSO_4 - _____

V. Hg_2SO_4 - _____

X. NiCl_2 - _____

2. Show the ions that formed the following compounds:

I. $\text{Zn}_3(\text{PO}_4)_2$

II. Al_2S_3

III. Iron (III) sulfide

IV. Ammonium cyanide

3. Form 4 water-soluble compounds by combining ions from the ions below:

Cl^-

CO_3^{2-}

PO_4^{3-}

Li^+

Sr^{2+}

4. Identify the precipitate in the following reaction. Circle the correct answer.



5. Name or give the chemical formula for each of the following compounds and state whether they are soluble (will dissolve) or insoluble (will not dissolve) in solution.

Chemical Formula	Name	Solubility
$\text{Zn}_3(\text{PO}_4)_2$		
	Silver bromide	
KNO_3		
	Aluminum sulfide	
	Silver acetate	

Solubility Practice Problems And Answers

Robert E. Notari



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Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples, and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step by step process for problem solving, whether mathematical or conceptual. Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts. Includes a chapter designed to eliminate confusion concerning acid base reactions, which often persists through working with acid base equilibrium. Many chapters provide alternative viewpoints as an aid to understanding. This book addresses a very real need for a large number of incoming freshmen in STEM fields.

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Analytical Chemistry Gary D. Christian,Purnendu K. Dasgupta,Kevin A.

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TEXT BOOK OF PHARMACEUTICS Dr. Gaurav Singh Sikarwar, Dr. Surendra Pratap Singh, Mrs. Asha Parveen, Mr. Rajiv Yadav , Dr. Deepak Singh, 2025-07-03

The Textbook of Pharmaceutics is a comprehensive academic resource tailored to meet the foundational learning needs of pharmacy students It begins with an insightful historical overview of the pharmacy profession in India tracing its development through education industrial growth and organizational progress The book provides a detailed introduction to various dosage forms offering clarity on their classification definitions and relevance in drug delivery Emphasis is placed on prescriptions their structure handling and potential errors helping students understand the importance of accuracy in pharmaceutical practice The section on posology explores dosage calculation principles particularly for pediatric patients incorporating methods based on age weight and body surface area Pharmaceutical calculations are addressed with practical examples involving percentage solutions proof spirit isotonic solutions and molecular weights ensuring mathematical accuracy in formulation Detailed attention is given to powders including classifications such as effervescent hygroscopic and eutectic mixtures along with methods like geometric dilution for uniform mixing Liquid dosage forms are elaborated with their pros and cons common excipients and techniques to enhance solubility A full chapter on monophasic liquids describes the preparation and use of various formulations such as syrups elixirs enemas and lotions The book also delves into suspensions covering flocculation deflocculation and methods to enhance stability Similarly the chapter on emulsions explores types emulsifying agents preparation methods and stability challenges Suppositories are discussed in terms of types preparation techniques displacement values and evaluation parameters The book also highlights different types of pharmaceutical incompatibilities physical chemical and therapeutic with practical examples A robust section on semisolid dosage forms covers the formulation and evaluation of ointments creams pastes and gels while addressing drug penetration mechanisms and formulation variables This textbook serves as a vital guide for students offering a strong theoretical foundation supported by practical

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Chemistry in the Community American Chemical Society, 2006-01-31 This laboratory based text centres itself around decision making activities where students apply their chemistry knowledge to realistic situations This fifth edition includes more photographs new drawings and new design

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