

Chapter 13: Properties of Solutions

Answers to selected problems:

23. a) unsaturated b) saturated

24. a) 25 g

33. Solubility of Helium: $5.6 \times 10^{-4} \text{ M}$; Solubility of $\text{N}_2 = 9.0 \times 10^{-4} \text{ M}$

34. Solubility of Oxygen: $2.5 \times 10^{-4} \text{ M}$. Hint: Be sure to change torr to atm.

35. a) 2.15 %; b) 3.15 ppm

38. a) Mole fraction of phenol: 0.0285

 b) 5.66 % c) 0.638 m

40. a) 0.125 M Aluminum Sulfate b) 0.140 M

 c) 0.63 M (hint: use $MV = MV$, see Chapter 4)

41. a) 4.70 m b) 0.235 m

43. **To make this problem easier, I would assume 1.000 L or 1000 mL.

 a) 43.01% b) mole fraction = 0.122

 c) 7.69 m d) 5.828 M

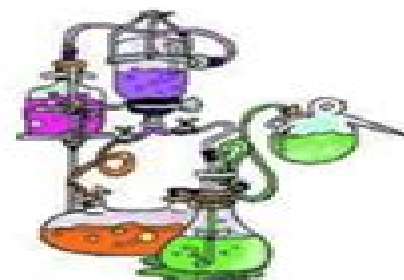
46. a) 0.0439 b) 0.498 m c) 0.417 M

(Hint: on this problem, you will have to use the density of thiophene to get the mL of thiophene and you will also have to use the density of toluene to get the mass(g) of toluene.

48. a) 0.278 mol b) 6.25×10^{-5} moles (assume the mass of the solvent is approx. equal to the mass of the solution for this problem)

 c) 3.29×10^{-3} mol

51. ** Assume you have 1.000L or 1000 mL. You can also use density to get the total grams.
Answer: 71%



Chapter 13 Review Solutions Section 13 2 Answers

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Chapter 13 Review Solutions Section 13 2 Answers:

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. Modern Chemistry Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001. Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein, Laurie S. Starkey, 2025-03-18. 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. 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. Calculus Howard Anton, Irl C. Bivens, Stephen Davis, 2021-10-19. In the newly revised Twelfth Edition of Calculus Early Transcendentals, an expert team of mathematicians delivers a rigorous and intuitive exploration of calculus, introducing polynomials, rational functions, exponentials, logarithms, and trigonometric functions early in the text. Using the Rule of Four, the authors present mathematical concepts from verbal, algebraic, visual, and numerical points of view. The book includes numerous exercises, applications, and examples that help readers learn and retain the concepts discussed within. Principles of Microeconomics N. Gregory Mankiw, Ronald D. Kneebone, Kenneth J. McKenzie, 2023-02-01. Principles of Microeconomics Ninth Canadian Edition breaks down concepts and emphasizes important themes for students. It is the

most widely used economics textbook on the market perfectly complementing instructor lessons Students should expect to gain a solid understanding of economic theory through real world applications While it prepares students for advanced economics studies it also speaks to people in other fields Mankiw stresses big picture ideas ensuring learners are grounded in essential economic concepts and principles *Intermediate Algebra with Early Functions and Graphing* Margaret L. Lial, Charles David Miller, E. John Hornsby, Jr., 1995 Instructor's Solutions Manual Bradley W. Jackson, 1990 **CCNA ICND Exam Certification Guide** Wendell Odom, 2004 Learn from the only Cisco approved test preparation book developed with Cisco for proven and comprehensive coverage CD ROM testing engine has over 200 question including simulation based as on the CCNA exam providing the most accurate test preparation available Proven training features complete concept learning and retention in the all time best selling CCNA preparation title **The Saturday Review of Politics, Literature, Science, Art, and Finance**, 1923 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 *The Saturday Review of Politics, Literature, Science and Art*, 1860 **Wireless World**, 1924 The Saturday Review, 1924 **Everyday Arithmetic** Franklin Sherman Hoyt, 1920 **Basic College Mathematics** Charles David Miller, Stanley A. Salzman, 1987 **Drug Dosage Calculations** Geraldine Ann Medici, 1988 Student's Solutions Manual Judith A. Penna, 2007 College Algebra Michael Sullivan, Michael Sullivan, III, 2000-08 The goal of this book is to motivate users by highlighting real people facing real challenges finding real solutions This book features real workers at Motorola along with hundreds of applications and real data sets highlighting the relevance and scope of activities that may be encountered in life Users are expected to find functions that fit the data and both construct and implement elementary mathematical models *Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers* John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions

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