

Colligative Properties and Activity Coefficients Exercise 1 and 2 (continued)

Knowledge being tested is your ability to calculate the _____

Solution

For solution of Exercise 1 (continued):

What does including activity coefficients?

What is the molality of a solution prepared by dissolving 5.00 g of sodium chloride (NaCl) in 100 g of water?

$$\frac{5.00 \text{ g NaCl} \times \frac{1 \text{ mol}}{58.44 \text{ g}}}{100 \text{ g} \times \frac{1 \text{ kg}}{1000 \text{ g}}} = \frac{0.0855 \text{ mol NaCl}}{1 \text{ kg water}}$$

Solution:

$$\frac{5.00 \text{ g NaCl} \times \frac{1 \text{ mol}}{58.44 \text{ g}}}{100 \text{ g} \times \frac{1 \text{ kg}}{1000 \text{ g}}} = \frac{0.0855 \text{ mol NaCl}}{1 \text{ kg water}} = \frac{0.0855 \text{ mol NaCl} \times \frac{1 \text{ mol}}{58.44 \text{ g}}}{100 \text{ g} \times \frac{1 \text{ kg}}{1000 \text{ g}}} = \frac{0.00146 \text{ mol NaCl}}{1 \text{ kg water}}$$

Temperature-Dependent Activity Coefficients

This paper presents the solution to the following question:

When a solution of a solute is prepared, the activity of the solute is _____ (Figure 10.1, Table 10.1, the value of the activity of the pure solvent).

Colligative Properties Study Guide Answers

**Barron's Educational Series, Mark
Kernion, Joseph A. Mascetta**



Colligative Properties Study Guide 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.

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Study Guide with Answers to Selected Problems H. Stephen Stoker,Danny V. White,2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter 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

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Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston,Denniston Katherine,2006

Study Guide to Accompany Basics for Chemistry Martha Mackin,2012-12-02 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section

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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

Super Course in Chemistry for the IIT-JEE: Physical Chemistry, *Resources in Education*, 1980

Student's Guide to Fundamentals of Chemistry Jo A. Beran, 2013-10-22

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