

**Chapter 13: Colligative Properties of Solutions****Sections to read before coming to class:**

13-1, 13-2, 13-3, 13-4, 13-5, and 13-6

**I. Objectives**

By the end of this chapter, you should be able to describe:

- A. Definitions
- B. Concentration units
  - 1. Molar concentration and molal concentration
  - 2. Mole fraction and mole percent
  - 3. Weight fraction and weight percent
- C. The Solution Process
  - 1. Heats of solution
  - 2. "Like dissolves like"
  - 3. Factors affecting solubility
- D. Colligative properties
  - 1. Vapor pressure and Raoult's Law
  - 2. Boiling point elevation and freezing point depression
  - 3. Molar masses from colligative properties
  - 4. Osmotic pressure

**II. Definitions**

A. **Solution:** homogenous mixture of a solute dissolved in a solvent (or a solvent mixture).

B. **Saturated solution:** Dissolved solute is in equilibrium with solid solute  $\text{solute}_{(aq)} \rightleftharpoons \text{solid}$

C. **Solubility:** Amount of a solute req'd to make a saturated solution (temperature dependent)

D. **Unsaturated solution:** Solution has less solute than required to make a saturated solution.

# Pkgacp Concordia U Chem 1401

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This book delves into Pkgacp Concordia U Chem 1401. Pkgacp Concordia U Chem 1401 is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Pkgacp Concordia U Chem 1401, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Pkgacp Concordia U Chem 1401
- Chapter 2: Essential Elements of Pkgacp Concordia U Chem 1401
- Chapter 3: Pkgacp Concordia U Chem 1401 in Everyday Life
- Chapter 4: Pkgacp Concordia U Chem 1401 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Pkgacp Concordia U Chem 1401. This chapter will explore what Pkgacp Concordia U Chem 1401 is, why Pkgacp Concordia U Chem 1401 is vital, and how to effectively learn about Pkgacp Concordia U Chem 1401.

3. In chapter 2, the author will delve into the foundational concepts of Pkgacp Concordia U Chem 1401. This chapter will elucidate the essential principles that need to be understood to grasp Pkgacp Concordia U Chem 1401 in its entirety.

4. In chapter 3, the author will examine the practical applications of Pkgacp Concordia U Chem 1401 in daily life. This chapter will showcase real-world examples of how Pkgacp Concordia U Chem 1401 can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Pkgacp Concordia U Chem 1401 in specific contexts. This chapter will explore how Pkgacp Concordia U Chem 1401 is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Pkgacp Concordia U Chem 1401. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Pkgacp Concordia U Chem 1401.

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