

ACS Gen Chem 2 Final Exam Study Guide With Correct Solutions.

C - Answer Where is the hydrophilic (attracted to water) region of the molecule?

- (A) Region 1
- (B) Region 2
- (C) Region 3
- (D) The three regions are equally hydrophilic

C - Answer Which molecule is most soluble in water?

D - Answer A solution of NaCl in water has a concentration of 20.5% by mass. What is the molal concentration of the solution?

Molar Mass NaCl = 58.44 g/mol

- (A) 0.205 m
- (B) 0.258 m
- (C) 3.51 m
- (D) 4.41 m

B - Answer What is the mole fraction of water in 200 g of 89% (by mass) ethanol, C₂H₅OH?

Molar Mass C₂H₅OH = 46 g/mol

- (A) 0.11
- (B) 0.24
- (C) 0.32
- (D) 0.76

D - Answer A mixture of 100 g of K₂Cr₂O₇ and 200 g of water is stirred at 60 degrees C until no more of the salt dissolves. The resulting solution is poured off into a separate beaker, leaving the undissolved solid behind. The solution is now cooled to 20 degrees C. What mass of K₂Cr₂O₇ crystallizes from the solution during the cooling?

- (A) 9 g
- (B) 18 g
- (C) 31 g
- (D) 62 g

A - Answer Carbonated beverages have a fizz because of gas dissolved in the solution. What increases the concentration of gas in a solution?

- (A) cooling the solution
- (B) heating the solution
- (C) increasing the volume of solution
- (D) decreasing the volume of solution

Acs Final Study Guide

Pat Juarez

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Table of Contents Acs Final Study Guide

1. Understanding the eBook Acs Final Study Guide
 - The Rise of Digital Reading Acs Final Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Acs Final Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Acs Final Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Acs Final Study Guide
 - Personalized Recommendations
 - Acs Final Study Guide User Reviews and Ratings
 - Acs Final Study Guide and Bestseller Lists
5. Accessing Acs Final Study Guide Free and Paid eBooks
 - Acs Final Study Guide Public Domain eBooks
 - Acs Final Study Guide eBook Subscription Services
 - Acs Final Study Guide Budget-Friendly Options
6. Navigating Acs Final Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Acs Final Study Guide Compatibility with Devices
- Acs Final Study Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Acs Final Study Guide
- Highlighting and Note-Taking Acs Final Study Guide
- Interactive Elements Acs Final Study Guide

8. Staying Engaged with Acs Final Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Acs Final Study Guide

9. Balancing eBooks and Physical Books Acs Final Study Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Acs Final Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Acs Final Study Guide

- Setting Reading Goals Acs Final Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Acs Final Study Guide

- Fact-Checking eBook Content of Acs Final Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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