

# Physical Chemistry 2nd Edition Ball

## Solutions Manual

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## Chapter 7

### *Equilibria for Multiple Component Systems*

- 7.2. With only a single component and phase, if only  $\text{Fe}_2(\text{SO}_4)_3$  were present in our system, we would have  $C - P + 2 = 1 - 1 + 2 = 2$  degrees of freedom.
- 7.4. For a single-component system, there will never be negative degrees of freedom. The maximum number of phases that can exist in equilibrium is three, so the Gibbs phase rule would yield  $1 - 3 + 2 = 0$  degrees of freedom (like might occur at the triple point). For a two-component system, the maximum number of phases that can exist in equilibrium is four. There will never be negative degrees of freedom.
- 7.6. In this reaction, there are only three independent components (the amount of the fourth can be determined from the equilibrium constant) and 3 phases, two solids and a gas mixture. Therefore, there are  $3 - 3 + 2 = 2$  degrees of freedom.
- 7.8. For water:  $n = \frac{pV}{RT} = \frac{(23.76 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm}/\text{mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 6.39 \times 10^{-3}$  mol of water is needed to ensure that there is a liquid and gas phase. This equals 0.115 grams.  
For methanol:
- $$n = \frac{pV}{RT} = \frac{(125.0 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm}/\text{mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 3.36 \times 10^{-2}$$
- mol of methanol is needed to ensure that there is a liquid and gas phase. This equals 1.08 grams.
- 7.10. Since, according to equation 7.11,  $a_i = \frac{P_i}{P_i^*}$ , and since  $P_i^* = 760 \text{ torr}$ , we can calculate  $a_i$ :

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### **Table of Contents Ball Solution Manual**

1. Understanding the eBook Ball Solution Manual
  - The Rise of Digital Reading Ball Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Ball Solution Manual
  - 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 Ball Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ball Solution Manual
  - Personalized Recommendations
  - Ball Solution Manual User Reviews and Ratings
  - Ball Solution Manual and Bestseller Lists

5. Accessing Ball Solution Manual Free and Paid eBooks
  - Ball Solution Manual Public Domain eBooks
  - Ball Solution Manual eBook Subscription Services
  - Ball Solution Manual Budget-Friendly Options
6. Navigating Ball Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Ball Solution Manual Compatibility with Devices
  - Ball Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ball Solution Manual
  - Highlighting and Note-Taking Ball Solution Manual
  - Interactive Elements Ball Solution Manual
8. Staying Engaged with Ball Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ball Solution Manual
9. Balancing eBooks and Physical Books Ball Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ball Solution Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ball Solution Manual
  - Setting Reading Goals Ball Solution Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ball Solution Manual
  - Fact-Checking eBook Content of Ball Solution Manual
  - 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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