Chemical Equilibrium

STUDY QUESTIONS & PROBLEMS

- Write the expressions for the equilibrium constant K_s for the following reactions:
 - a. $4 \text{ NH}_3(g) + 7 \text{ O}_2(g) \implies 4 \text{ NO}_2(g) + 6 \text{ H}_2\text{O}(1)$
 - b. $HCN(aq) + H_2O(1) \rightleftharpoons H_3O^*(aq) + CN^*(aq)$
 - c. $PCl_3(g) + \Longrightarrow PCl_3(g) + Cl_2(g)$
 - d. $CaCO_3(s) \rightleftharpoons CaO(s) + CO_2(g)$
 - e. 3 O₂(g) == 2 O₃(g)
 - f. $2 H_2O(1) \implies H_3O^*(aq) + OH^*(aq)$
 - g. $3 \operatorname{Zn}(s) + 2 \operatorname{Fe}^{3+}(aq) \rightleftharpoons 2 \operatorname{Fe}(s) + 3 \operatorname{Zn}^{2+}(aq)$
- 2. Write the equilibrium constant expressions for the following reactions. How are they related to one another?
 - a. $2 N_2O(g) + 3 O_2(g) = 4 NO_2(g)$
 - b. $N_2O(g) + \frac{3}{2}O_2(g) \implies 2 NO_2(g)$
 - c. $4 \text{ NO}_2(g) \implies 2 \text{ N}_2O(g) + 3 \text{ O}_2(g)$
- Calculate the value of the equilibrium constant for the following system, given the data shown:

$$H_2(g) + CO_2(g) \rightleftharpoons H_2O(g) + CO(g)$$

Concentrations at equilibrium:

[H ₂]	-	1.5 mol Liter ⁻¹
$[CO_2]$	in a	2.5 mol Liter ⁻¹
$[H_2O]$	1000	0.5 mol Liter ¹
[CO]	1000	3.0 mol Liter ⁻¹

- Chlorine molecules will dissociate at high temperatures into chlorine atoms. At 3000°C, for example, K_e for the equilibrium shown is 0.55. If the partial pressure of chlorine molecules is 1.5 atm, calculate the partial pressure of the chlorine atoms: Cl₂(g) == 2 Cl(g)
- Suppose that 0.50 moles of hydrogen gas, 0.50 moles of iodine gas, and 0.75 moles of hydrogen iodide gas are introduced into a 2.0 Liter vessel and the system is allowed to reach equilibrium.

$$H_2(g) + I_2(g) = 2 HI(g)$$

Calculate the concentrations of all three substances at equilibrium. At the temperature of the experiment, K_c equals 2.0 x 10^{-2} .

- 6. If the mechanism of a chemical equilibrium consists of two reversible elementary steps, each with its own equilibrium constant K_{c1} and K_{c2}, what expression relates the equilibrium constant Kc for the overall equilibrium to the two constants K_{c1} and K_{c2}?
- 7. When 2.0 mol of carbon disulfide and 4.0 mol of chlorine are placed in a 1.0 Liter flask, the following equilibrium system results. At equilibrium, the flask is found to contain 0.30 mol of carbon tetrachloride. What quantities of the other components are present in this equilibrium mixture?

$$CS_2(g) + 3 Cl_2(g) \rightleftharpoons S_2Cl_2(g) + CCl_4(g)$$

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Bloomfield, Catherine E. MacGowan

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Table of Contents Chemical Equilibrium Practice Problems Multiple Choice

- 1. Understanding the eBook Chemical Equilibrium Practice Problems Multiple Choice
 - The Rise of Digital Reading Chemical Equilibrium Practice Problems Multiple Choice
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Chemical Equilibrium Practice Problems Multiple Choice
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemical Equilibrium Practice Problems Multiple Choice
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Chemical Equilibrium Practice Problems Multiple Choice
 - Personalized Recommendations
 - Chemical Equilibrium Practice Problems Multiple Choice User Reviews and Ratings

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