Section 18.2 Reversible Reactions and Equilibrium

OBJECTIVES:

- Describe how the amounts of reactants and products change in a chemical system at equilibrium.
- Identify three stresses that can change the equilibrium position of a chemical system.
- Explain what the value of Keq indicates about the position of equilibrium.

Reversible Reactions

- Some reactions do not go to completion as we have assumed
 - They may be ______ a reaction in which the conversion of reactants to products and the conversion of products to reactants occur simultaneously
- $2SO_2(g) + O_2(g) \rightarrow 2SO_2(g)$ = $2SO_2(g) + O_2(g) \leftarrow 2SO_2(g)$
- The two equations can be combined into one, by using a , which tells us that it is a reversible reaction:
- $2SO_2(g) + O_2(g) \leftrightarrow 2SO_3(g)$
- A chemical equilibrium occurs, and no net change occurs in the actual amounts of the components of the system.
- Even though the rates of the forward and reverse are equal, the
 of components on both sides may
 not be equal
 - An equlibrium position may be shown:
 B or A B
- 1% 99% 99% 1%
- Note the emphasis of the arrows direction
- It depends on which side is favored; almost all reactions are reversible to some extent

Le Chatelier's Principle

- The French chemist Henri Le Chatelier (1850-1936) studied how the equilibrium position <u>shifts</u> as a result of changing conditions
- Le Chatelier's principle:

Section 18 2 Reversible Reactions And Equilibrium Answer Key

SB Merriam

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Table of Contents Section 18 2 Reversible Reactions And Equilibrium Answer Key

- 1. Understanding the eBook Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - o The Rise of Digital Reading Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - 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 Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Personalized Recommendations

- Section 18 2 Reversible Reactions And Equilibrium Answer Key User Reviews and Ratings
- Section 18 2 Reversible Reactions And Equilibrium Answer Key and Bestseller Lists
- 5. Accessing Section 18 2 Reversible Reactions And Equilibrium Answer Key Free and Paid eBooks
 - Section 18 2 Reversible Reactions And Equilibrium Answer Key Public Domain eBooks
 - Section 18 2 Reversible Reactions And Equilibrium Answer Key eBook Subscription Services
 - Section 18 2 Reversible Reactions And Equilibrium Answer Key Budget-Friendly Options
- 6. Navigating Section 18 2 Reversible Reactions And Equilibrium Answer Key eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Section 18 2 Reversible Reactions And Equilibrium Answer Key Compatibility with Devices
 - Section 18 2 Reversible Reactions And Equilibrium Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Highlighting and Note-Taking Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Interactive Elements Section 18 2 Reversible Reactions And Equilibrium Answer Key
- 8. Staying Engaged with Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 18 2 Reversible Reactions And Equilibrium Answer Key
- 9. Balancing eBooks and Physical Books Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 18 2 Reversible Reactions And Equilibrium Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Setting Reading Goals Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 18 2 Reversible Reactions And Equilibrium Answer Key
 - Fact-Checking eBook Content of Section 18 2 Reversible Reactions And Equilibrium Answer Key

- 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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