Exploring Equilibrium: It Works Both Ways

Student Laboratory Kit

Introduction

The word equilibrium has two roots: aqui, meaning equal, and libra, meaning weight or balance. Our physical sense of equilibrium suggests a condition of equal balance of opposing forces. How does this physical sense of equilibrium translate to chemical equilibrium? The purpose of this lab is to explore the nature and consequences of equilibrium in a variety of chemical reactions.



Chemical Concepts

- · Reversible chemical reaction
- Chomical equilibrium

LeChitelier's Principle

Endothermic vs. exothermic reactions

Background

In our first exposure to the nature of chemical change, we learn to distinguish between chemical and physical changes by emphasizing that physical changes can be easily reversed. In contrast, early examples of chemical change often feature reactions that cannot be reversed, such as burning wood, rusting metal, or spoiling food. A closer look at chemical change, however, reveals that many chemical reactions are indeed reversible.

Consider the following example of a reversible chemical reaction. Nitrogen and hydrogen gas react under high-pressure conditions to make ammonia. At relatively high temperatures, however, ammonia decomposes to reform the nitrogen and hydrogen starting materials. The reaction can go both ways! This reversible chemical reaction is represented symbolically using double arrows, as shown in Equation 1.

$$N_y(g) + 3H_y(g) \rightleftharpoons_y 2NH_y(g)$$

Equation 1

What happens when nitrogen gas and bydrogen gas are allowed to react? As ammonia is produced, the amounts of nitrogen and hydrogen decrease and the amount of ammonia begins to increase. As the concentration of ammonia increases, however, the reverse reaction begins to take place at a significant rate as well. Eventually, the amount of ammonia consumed due to the reverse reaction becomes equal to the amount of ammonia formed in the forward reaction. At this point, no further changes are observed in the amounts of either the reactants or product. This is the position of chemical equilibrium.

Chemical equilibrium is defined as the state where the concentrations of reactants and products remain constant with time. This does not mean that both reactions have stopped. Both the forward and revene reactions are still taking place, but at equal rates, so the amounts of reactants and products remain constant. Chemical equilibrium represents an equal balance of opposing forces due to the forward and reverse reactions.

LeChitelier's Principle

What happens when the balance is disturbed—due to changes in reactast and product concentrations, temperature, or pressure, for example? LeChâtelier's Principle provides an intuitive explanation for how balance can be restored:

"If an equilibrium system is subjected to a stress, the system will react in such a way as to remove the stress."

Exploring Equilibrium It Works Both Ways Answers

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Minds-on Physics: Complex systems William J. Leonard, 1999 Explorations in Economic Methodology Roger E. Backhouse, 2006-10-19 Roger Backhouse is a key figure in the field of economic methodology Explorations in Economic Methodology both clarifies and responds to the issues raised by the literature and argues that methodology is an essential activity Offering a constructive but critical response to the recent literature this collection provides important new insights for students and researchers in economic methodology and the philosophy of science The Weekly record of the temperance movement [afterw.] The Weekly record. [Continued as] The Temperance record National temperance New Irish Storytellers Dióg O'Connell, 2010-04-15 With the success of such films as the Oscar winner Once league,1873 Irish film has been getting well deserved international attention recently New Irish Storytellers examines storytelling techniques and narrative strategies in contemporary Irish film Revealing defining patterns within recent Irish cinema this book explores connections between Irish cinematic storytellers and their British and American colleagues D g O Connell traces the creative output of Irish filmmakers today back to 1993 the year the Irish Film Board was reactivated reinvigorating film production after a hiatus of seven years Reflecting on this key and distinctive era in Irish cinema this book explores how film gave expression to tensions and fissures in the new Ireland English Mechanic and Mirror of Science and Art ,1910 The Literary Digest International Book Review Clifford Smyth, 1924 Scientific American, 1875 The New Leonardo ,1986 International journal of contemporary visual artists Statesman, 1919 Engineering ,1916 ARTnews ,1954 English Mechanic and Mirror of Science, 1892. The Electrical World ,1898 Engineering; an **NBER Reporter** National Bureau of Economic Research, 1977 The Index ... Francis Illustrated Weekly Journal, 1916 Ellington Abbot, William James Potter, Benjamin Franklin Underwood, 1877 The Index ,1877 The Lancet ,1885 Musical Messenger ,1916 The Engineer ,1872

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