

Chemistry: Atoms First 2e
17: Kinetics
17.5: Collision Theory

50. Chemical reactions occur when reactants collide. What are two factors that may prevent a collision from producing a chemical reaction?

Solution

The reactants either may be moving too slowly to have enough kinetic energy to exceed the activation energy for the reaction, or the orientation of the molecules when they collide may prevent the reaction from occurring.

52. What is the activation energy of a reaction, and how is this energy related to the activated complex of the reaction?

Solution

The activation energy is the minimum amount of energy necessary to form the activated complex in a reaction. It is usually expressed as the energy necessary to form one mole of activated complex.

54. Describe how graphical methods can be used to determine the activation energy of a reaction from a series of data that includes the rate of reaction at varying temperatures.

Solution

After finding k at several different temperatures, a plot of $\ln k$ versus $\frac{1}{T}$ gives a straight line with the slope $-\frac{E_a}{R}$, from which E_a may be determined.

56. The rate of a certain reaction doubles for every 10 °C rise in temperature.

(a) How much faster does the reaction proceed at 45 °C than at 25 °C?

(b) How much faster does the reaction proceed at 95 °C than at 25 °C?

Solution

(a) The rate doubles for each 10 °C rise in temperature, 45 °C is a 20 °C increase over 25 °C. Thus, the rate doubles two times, or 2^2 (rate at 25 °C) = 4-times faster. (b) 95 °C is a 70 °C increase over 25 °C. Thus the rate doubles seven times, or 2^7 (rate at 25 °C) = 128-times faster.

58. The rate constant at 325 °C for the decomposition reaction $\text{C}_2\text{H}_6 \rightarrow 2\text{C}_2\text{H}_5$ is $6.1 \times 10^{-5} \text{ s}^{-1}$, and the activation energy is 261 kJ per mole of C_2H_6 . Determine the frequency factor for the reaction.

Solution

The rate constant k is related to the activation energy E_a by a relationship known as the Arrhenius equation. Its form is:

$$k = A \times 10^{-(2.303E_a/RT)} = A \times e^{-(E_a/RT)}$$

where A is the frequency factor. Using the data provided, and converting kilojoules to joules:

$$6.1 \times 10^{-5} \text{ s}^{-1} = A \times 10^{-(2.303(261 \times 10^3 \text{ J})/(8.314 \text{ J/K} \cdot \text{mol})(325 \text{ K}))}$$
$$= A \times 10^{-22.9}$$

$$A = \frac{6.1 \times 10^{-5} \text{ s}^{-1}}{1.58 \times 10^{-23}} = 3.9 \times 10^{18} \text{ s}^{-1}$$

60. An elevated level of the enzyme alkaline phosphatase (ALP) in human serum is an indication of possible liver or bone disorder. The level of serum ALP is so low that it is very difficult to measure directly. However, ALP catalyzes a number of reactions, and its relative concentration

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Yn-hwang Lin



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Comprehensive Inorganic Chemistry II, 2013-07-23 Comprehensive Inorganic Chemistry II Nine Volume Set reviews and examines topics of relevance to today's inorganic chemists. Covering more interdisciplinary and high impact areas, Comprehensive Inorganic Chemistry II includes biological inorganic chemistry, solid state chemistry, materials chemistry, and nanoscience. The work is designed to follow on with a different viewpoint and format from our 1973 work, Comprehensive Inorganic Chemistry, edited by Bailar, Emel'us, Nyholm, and Trotman-Dickenson, which has received over 2 000 citations. The new work will also complement other recent Elsevier works in this area: Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry, to form a trio of works covering the whole of modern inorganic chemistry. Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements, their compounds, or applications. Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief. The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field. The chapters will not provide basic data on the elements, which is available from many sources and the original work, but instead concentrate on applications of the elements and their compounds. Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry, materials chemistry, solid state chemistry, and nanoscience. Inorganic chemistry is rapidly developing, which brings about the need for a reference resource such as this that summarises recent developments and simultaneously provide background information. Forms the new definitive source for researchers interested in elements and their applications, completely replacing the highly cited first edition which published in 1973.

A Guide Book of Experiments in Applied Chemistry Dr Vinod Jena, 2017-06-18 The development of science and technology has been giving us a lot of benefits. Chemistry is a field which has greatly contributed to the development. The advanced technology has often required the basic research. Therefore the Course of Applied Chemistry covers a variety of chemical fields working on various materials including metal compounds, inorganic and organic compounds, polymers, proteins, etc., doing basic researches and their applications.

The Pearson Guide to Objective Chemistry for the AIEEE Singhal Atul, 2010-09

Polymer Viscoelasticity: Basics, Molecular Theories, Experiments And Simulations (2nd Edition) Yn-hwang Lin, 2010-10-15 This book covers in great detail the Rouse segment based molecular theories in polymer viscoelasticity, the Rouse theory and the extended reptation theory based on the framework of the Doi-Edwards theory that have been shown to explain experimental results in a consistently quantitative way. The explanation for the 3/4 power law of viscosity, quantitative line shape analyses of viscoelastic responses and agreements between different sorts of viscoelastic responses, the consistency between the viscoelasticity and diffusion results, the clarification of the onset

of entanglement the discovery of the number of entanglement strands per cubed entanglement distance being a universal constant and the basic mechanism of the glass transition related thermorheological complexity are discussed or shown in great detail The mystery behind the success of the Rouse segment based molecular theories over the entropic region of a viscoelastic response is revealed by the Monte Carlo simulations on the Fraenkel chains Specifically the simulation studies give a natural explanation for the coexistence of the energy driven and entropy driven modes in a viscoelastic response and provide a theoretical basis resolving the paradox that the experimentally determined sizes of Rouse and Kuhn segments are nearly the same This book starts from a very fundamental level each chapter is built upon the contents of the previous chapters Thus the readers may use the book as a textbook and eventually reach an advanced research level This book is also a useful source of reference for physicists chemists and material scientists Chemistry for Degree Students B.Sc. (Honours) Semester II, 1/e (As per CBCS) Madan R.L.,2022 This textbook has been designed to meet the needs of B Sc Honours Second Semester students of Chemistry as per the UGC Choice Based Credit System CBCS Maintaining the traditional approach to the subject this textbook lucidly explains the basics of Organic and Physical Chemistry Important topics such as alkanes alkenes alkynes stereochemistry aliphatic hydrocarbons thermochemistry chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures

Non-Aqueous Solutions - 5 J. B. Gill,2013-10-22 Non Aqueous Solutions 5 is a collection of lectures presented at the Fifth International Conference on Non Aqueous Solutions held in Leeds England on July 5 9 1976 The papers explore reactions in non aqueous solutions as well as the thermodynamic and kinetic properties of non aqueous solutions Examples of the use of spectroscopic techniques are presented and solutions in molten salts are given Metals in solution and liquid metal solutions are also considered This book is comprised of 12 chapters and begins with a review of a general scheme which considers the species formed by cation electron and electron electron interactions at dilute to moderate concentrations along with the influence of the solvent and the metal on these interactions The discussion then shifts to the application of electron spin resonance spectroscopy to the study of solvation the influence of solvent properties on ligand substitution mechanisms of labile complexes and the effect of acidity on chemical reactions in molten salts Subsequent chapters deal with the chemistry of solutions of salts in liquid alkali metals preferential solvation in kinetics and the use of non aqueous solvents for preparation and reactions of nitrogen halogen compounds Results of Raman spectroscopic studies of non aqueous solutions and spectroscopic studies of coordination compounds formed in molten salts are also presented This monograph will be of interest to chemists **Experimental and Theoretical Approaches to Actinide Chemistry** John K. Gibson,Wibe A. de Jong,2018-01-08 A review of contemporary actinide research that focuses on new advances in experiment and theory and the interplay between these two realms Experimental and Theoretical Approaches to Actinide Chemistry offers a comprehensive

review of the key aspects of actinide research Written by noted experts in the field the text includes information on new advances in experiment and theory and reveals the interplay between these two realms The authors offer a multidisciplinary and multimodal approach to the nature of actinide chemistry and explore the interplay between multiple experiments and theory as well as between basic and applied actinide chemistry The text covers the basic science used in contemporary studies of the actinide systems from basic synthesis to state of the art spectroscopic and computational techniques The authors provide contemporary overviews of each topic area presented and describe the current and anticipated experimental approaches for the field as well as the current and future computational chemistry and materials techniques In addition the authors explore the combination of experiment and theory This important resource Provides an essential resource the reviews the key aspects of contemporary actinide research Includes information on new advances in experiment and theory and the interplay between the two Covers the basic science used in contemporary studies of the actinide systems from basic synthesis to state of the art spectroscopic and computational techniques Focuses on the interplay between multiple experiments and theory as well as between basic and applied actinide chemistry Written for academics students professionals and researchers this vital text contains a thorough review of the key aspects of actinide research and explores the most recent advances in experiment and theory Indian Journal of Chemistry, Section A, Inorganic, Physical, Theoretical, and Analytical ,1986 **British Abstracts** ,1928 **The Chemical News** ,1925

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