

# Selectivity & Specificity in Organic Chemistry



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Advanced Organic Chemistry  
Chemistry and Advanced Chemical  
Methodologies

## GENERAL DEFINITIONS

**SELECTIVITY:** a process is considered **selective** when, according to its mechanism, it is possible to conceive the formation of **various products**, one of which is **predominantly** obtained over the others.

**SPECIFICITY:** a process is considered **specific** when, according to its mechanism, it **is conceivable**, starting from a specific substrate, only the formation of **a single product**.

# Selectivity In Chemical Reactions

**J. R. Bourne, W. Regenass, W. Richarz**



## Selectivity In Chemical Reactions:

**Selectivity in Chemical Reactions** J.C. Whitehead, 2012-12-06 The aim of this Workshop on Selectivity in Chemical Reactions was to examine the specific preferences exhibited by simple chemical reactions with regards to reagents having particular energy states symmetries alignment and orientation and the resulting formation of certain products with their corresponding energies states alignment and polarisation Such problems come close to the ultimate goal of reaction dynamics of being able to determine experimentally and theoretically state to state cross sections and stereochemical effects under well defined and characterised conditions There are many examples of highly selective and specific processes to be found in atmospheric and combustion chemistry and the production of population inversions amongst vibrational and electronic states lies at the heart of the development of chemical laser systems Only when we can understand the fundamental processes that underlie the selectivity in the formation of products in a chemical reaction and the specific requirements of initial states of the reagents can we expect to be able to develop the explanatory and predictive tools necessary to apply the subject to the development of new laser systems efficient combustion schemes and specific methods of chemical synthesis to the control of atmospheric pollution and to all problems in which it is necessary to direct the outcome of a chemical reaction in a specific way The brief given to the Workshop was to critically review the field to discuss the present limitations and difficulties and to identify new directions

**Reaction Kinetics and Reactor Design, Second Edition** John B. Butt, 2000-01-03 This text combines a description of the origin and use of fundamental chemical kinetics through an assessment of realistic reactor problems with an expanded discussion of kinetics and its relation to chemical thermodynamics It provides exercises open ended situations drawing on creative thinking and worked out examples A solutions manual is also available to instructors

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**Basics of Flow Microreactor Synthesis** Jun-ichi Yoshida, 2015-05-08 This book provides in a concise form the principles and applications of flow microreactors in organic and polymer synthesis Recently it became possible to conduct chemical reactions in a flow reactor in laboratory synthesis The flow microreactor enables reactions that cannot be done in batch opening a new possibility of chemical synthesis Extremely fast mass and heat transfer and high resolution residence time

control are responsible for the remarkable features of that process The book is not an exhaustive compilation of all known examples of flow microreactor synthesis Rather it is a sampling of sufficient variety to illustrate the concept the scope and the current state of flow microreactor synthesis Researchers both in academia and in industry will be interested in this book because the topics encompassed by the book are vigorously studied in many university and company laboratories today

Quality and Reliability in Analytical Chemistry George E. Baiulescu, Raluca-Ioana Stefan, Hassan Y.

Aboul-Enein, 2000-09-28 Quality and reliability are central to success in every discipline but perhaps nowhere are they more important or more interconnected than in the practice of analytical chemistry Here although reliable analytical information implies quality not all quality information proves reliable Quality and Reliability in Analytical Chemistry examine

**Chemical Reactions and Their Control on the Femtosecond Time Scale** Pierre Gaspard, Irene

Burghardt, 2009-09-09 Continuing the tradition of the Advances in Chemical Physics series Volume 101 Chemical Reactions and Their Control on the Femtosecond Time Scale details the extraordinary findings reported at the XXth Solvay Conference on Chemistry held at the Universite Libre de Bruxelles Belgium from November 28 to December 2 1995 This new volume discusses the remarkable opportunities afforded by the femtosecond laser focusing on the host of phenomena this laser has made it possible to observe Examining molecules on the intrinsic time scale of their vibrations as well as their dissociative motions and electronic excitations represents only part of a broadened scientific window made possible by the femtosecond laser The assembled studies with follow up discussions reflect the many specialties and perspectives of the Conference s 65 participants as well as their optimism concerning the breadth of scientific discovery now open to them The studies shed light on the laser s enhanced technical reach in the area of coherent control of chemical reactions as well as of more general quantum systems The theoretical fundamentals of femto chemistry the unique behavior of the femtosecond laser and a view toward future technological applications were also discussed Femtochemistry chemical reaction dynamics and their control Coherent control with femtosecond laser pulses Femtosecond chemical dynamics in condensed phases Control of quantum many body dynamics Experimental observation of laser control Solvent dynamics and RRKM theory of clusters High resolution spectroscopy and intramolecular dynamics Molecular Rydberg states and ZEKE spectroscopy Transition state spectroscopy and photodissociation Quantum and semiclassical theories of chemical reaction rates A fascinating and informative status report on the cutting edge chemical research made possible by the femtosecond laser Chemical Reactions and Their Control on the Femtosecond Time Scale is an indispensable volume for professionals and students alike The femtosecond laser and chemistry s extraordinary new frontier of molecular motions observed on the scale of a quadrillionth of a second Research chemists have only tapped the surface of the spectacular reach and precision of the femtosecond laser a technology that has allowed them to observe the dynamics of molecules on the intrinsic time scale of their vibrations dissociative motions and electronic excitations Volume 101 in the Advances in Chemical Physics series Chemical Reactions

and Their Control on the Femtosecond Time Scale details their extraordinary findings presented at the XXth Solvay Conference on Chemistry in Brussels The studies reflect the work in part of the Conference s 65 participants including many prominent contributors Together they shed light on the laser s enhanced technical range in the area of coherent control of chemical reactions as well as of more general quantum systems The theoretical fundamentals of femtochemistry the unique behavior of the femtosecond laser and a view toward future technological applications were also discussed An exceptionally up to date examination of the chemical analyses made possible by the femtosecond laser Chemical Reactions and Their Control on the Femtosecond Time Scale is an important reference for professionals and students interested in enhancing their research capabilities with this remarkable tool From 1993 to 1996 she worked with Dr P Gaspard at the Universite Libre de Bruxelles Belgium on the application of new semiclassical techniques to elementary chemical reaction processes

**Chemical Reactions in Organic and Inorganic Constrained Systems** R. Setton, 2012-12-06 The basic idea of the NATO International Exchange Program for funding an Advanced Research Workshop on Chemical Reactions in Organic and Inorganic Constrained Systems was to contribute to a better understanding of the influence of configurational constraints on reaction mechanisms as imposed on reagents by organic or inorganic templates The original character of the Workshop was to bring together organic and inorganic chemists with this common interest in order to promote the exchange of ideas and eventually interdisciplinary research All the participants to the Workshop agreed that the discussions were stimulating and fruitful The judgement of the reader of the Proceedings may perhaps be more restrictive because the director Professor J J FRIPIAT and co director Professor P SINAY faced with the impossible task of covering such an enormous domain were obliged to select somewhat arbitrarily a limited number of topics which seemed to them to be the most important Their choice may be discussed and there surely are important gaps with fields which were not considered However both organisers believe that within the limited span of time and number of contributors most of the exciting areas were addressed Dr WARNHEIM was kind enough to write a commentary on the Workshop his summary written with the hindsight of a few weeks supports we believe this opinion Dr SETTON has accepted the burden of collecting and shaping not selectively the manuscripts This book would not be what it is without his efficient contribution as scientific secretary of the Workshop

Handbook of Industrial Mixing Edward L. Paul, Victor A. Atiemo-Obeng, Suzanne M. Kresta, 2004-02-03 Handbook of Industrial Mixing will explain the difference and uses of a variety of mixers including gear mixers top entry mixers side entry mixers bottom entry mixers on line mixers and submerged mixers The Handbook discusses the trade offs among various mixers concentrating on which might be considered for a particular process Handbook of Industrial Mixing explains industrial mixers in a clear concise manner and also Contains a CD ROM with video clips showing different type of mixers in action and a overview of their uses Gives practical insights by the top professional in the field Details applications in key industries Provides the professional with information he did receive in school

Organic Chemistry Mechanisms: Study and

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### **Chemical Reactions and Processes Under Flow**

**Conditions** Santiago V. Luis, Eduardo García-Verdugo, 2010 Pharmaceutical and fine chemical products are typically synthesised batchwise which is an anomaly since batch processes have a series of practical and economical disadvantages On the contrary flow continuous processes present a series of advantages leading to new ways to synthesise chemical products Flow processes enable control reaction parameters more precisely temperature residence time amount of reagents and solvent etc leading to better reproducibility safer and more reliable processes can be performed more advantageously using immobilized reagents or catalysts improve the selectivity and productivity of the process and possibly even the stability of the catalyst offer opportunities for heat exchange and energy conservation as well as an easy separation and recycling of the reactants and products by adequate process design achieve multistep syntheses by assembling a line of reactors with minimum or no purification in between two reaction steps can be assured by facile automation scale up can be easily conducted by number up With all the new research activity in manufacturing chemical products this comprehensive book is very timely as it summarises the latest trends in organic synthesis It gives an insight into flow continuous processes outlining the basic concepts and explaining the terminology of and systems approach to process design dealing with both homogeneous and heterogeneous catalysis and mini or micro reactors The book contains case studies extensive bibliographies and reference lists in each chapter to enable the reader to grasp the contents and to go on to more detailed texts on specific subjects if desired The book is written by both organic chemists and engineers giving a multidisciplinary vision of the new tools and methodologies in this field It is essential reading for organic chemists in industry or academia working alongside chemical engineers or who want to undertake chemical engineering projects It will also be of interest for chemical engineers to see how basic engineering concepts are applied in modern organic chemistry

### **Selectivity in**

**Organic Synthesis** Robert S. Ward, 1999-05-04 Selectivity is an increasingly important part of organic synthesis The whole basis of organic chemistry and especially organic synthesis depends upon the selectivity which can be achieved in organic reactions This concise textbook describes the strategies which can be adopted to improve selectivity and the reactions which

have been specially designed to afford high selectivity The aim is to illustrate the range of processes to which these principles can be applied and the high degree of selectivity which can be achieved Selectivity in Organic Synthesis aims to provide a solid introduction to this subject focusing on the key areas and applications

**New Developments and Application in Chemical Reaction Engineering** Hyun-Ku Rhee, In-Sik Nam, Jong Moon Park, 2006-05-10 This Proceedings of APCRE 05 contains the articles that were presented at the 4th Asia Pacific Chemical Reaction Engineering Symposium APCRE 05 held at Gyeongju Korea between June 12 and June 15 2005 with a theme of New Opportunities of Chemical Reaction Engineering in Asia Pacific Region Following the tradition of APCRE Symposia and ISCRE the scientific program encompassed a wide spectrum of topics including not only the traditional areas but also the emerging fields of chemical reaction engineering into which the chemical reaction engineers have successfully spearheaded and made significant contributions in recent years In addition to the 190 papers being accepted six plenary lectures and 11 invited lectures are placed in two separate chapters in the front Provides an overview of new developments and application in chemical reaction engineering Topics include traditional and emerging fields Papers reviewed by experts in the field

**Chemical and Catalytic Reaction Engineering** James J. Carberry, 2001-01-01 Designed to give chemical engineers background for managing chemical reactions this text examines the behavior of chemical reactions and reactors conservation equations for reactors heterogeneous reactions fluid fluid and fluid solid reaction systems heterogeneous catalysis and catalytic kinetics diffusion and heterogeneous catalysis and analyses and design of heterogeneous reactors 1976 edition

**Tenth International Symposium on Chemical Reaction Engineering** J. R. Bourne, W. Regenass, W. Richarz, 2017-05-04 ISCRE 10 Tenth International Symposium on Chemical Reaction Engineering documents the proceedings of the symposium which brought together experts from all over the world to discuss developments in CRE Efforts were made to cover high added value substances and to encourage papers from industry Some success was achieved but there remain significant gaps between Chemists and Chemical Engineers when considering high added value products as well as between researchers and practitioners of CRE The volume begins with plenary papers covering topics such as challenges in reactor modeling bioreactor engineering the design of reaction systems for specialty organic chemicals This is followed by papers presented during the eight technical sessions Technical session A focused on the modeling and control of chemical reactions Technical session B was devoted to studies on biotechnology Technical session C covered mixing while Technical session D dealt with special reactor systems and chemicals The papers in Technical session E examined reactions for emission control and recycling Technical session F covered the safety aspects of CRE Technical session G focused on the experiments with multiphase reactions while Technical session H dealt with catalytic reactors

Industrial Organic Chemistry Mr. Rohit Manglik, 2024-07-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides

comprehensive and well structured content tailored to meet the needs of students across various streams and levels

*Basic Principles in Applied Catalysis* Manfred Baerns, 2013-03-09 Applied catalysis is based nowadays not only on empirical knowledge but also on the many insights that have been gained from the fundamental understanding of catalysis. It also comprises knowledge and expertise from catalytic reaction engineering in particular kinetics of the catalytic reaction and its interplay with heat and mass transfer as well as fluid dynamics and the specific conditions prevailing in the type of reactor used. Applied catalysis comprises many areas from a reaction point of view many types of catalytic materials from which catalysts are formed are needed to achieve high selectivities and space time yields last but not least catalysts should have a long life time to which its deactivation is detrimental. A catalytic material that fulfils all the demands then often requires special mechanical and thermal treatment to be used in practice. Various books have been written about specific areas as mentioned above. It is the intention of this contribution to present timely reports by well recognised experts in the field to outline the state of science and technology in selected but representative areas illustrating the basic principles of applied catalysis.

*Lasers and Chemical Change* A. Ben-Shaul, Y. Haas, K. L. Kompa, R. D. Levine, 2012-12-06 Lasers and chemical change is the study of radiation and molecules in disequilibrium. The distinguishing feature of such systems is the extreme departure from thermal equilibrium. The radiation is usually confined to a narrow frequency range, is well collimated and is far brighter than black body radiation. The chemical composition and also the distribution of molecules over their different energy states are often markedly displaced from that expected at equilibrium. Such systems can be used as a source of laser radiation and conversely lasers can rapidly and selectively displace molecular systems from equilibrium. The subsequent evolution of the initially prepared state can then be monitored again using lasers. One purpose of this book is to introduce the concepts required to discuss systems of radiation and molecules in disequilibrium. These include the physics of laser radiation and of radiation-matter interaction and molecular structure and spectroscopy. Excellent textbooks of these topics are available and our survey in Chap 3 is only intended to accent the essential points with special reference to atomic and molecular radiation physics. Considerably more attention is given to the topic of disequilibrium in chemical systems. Chap 2. In particular we consider both inter and intra molecular dynamics with special reference to energy requirements and energy disposal in chemical reactions and to what goes on in between intramolecular energy migration.

**Innovations in Green Chemistry and Green Engineering** Paul T. Anastas, Julie B. Zimmerman, 2012-12-13 Processes that meet the objectives of green chemistry and chemical engineering minimize waste and energy use and eliminate toxic by products. Given the ubiquitous nature of products from chemical processes in our lives green chemistry and chemical engineering are vital components of any sustainable future. Gathering together ten peer reviewed articles from the Encyclopedia of Sustainability Science and Technology *Innovations in Green Chemistry and Green Engineering* provides a comprehensive introduction to the state of the art in this key area of sustainability research. Worldwide experts present the latest

developments on topics ranging from organic batteries and green catalytic transformations to green nanoscience and nanotoxicology An essential one stop reference for professionals in research and industry this book also fills the need for an authoritative course text in environmental and green chemistry and chemical engineering at the upper division undergraduate and graduate levels      *The Magic of Molecules: Exploring Chemical Reactions* Dr. M. Ziauddin Shahzada ,2025-08-25      *Thermoplasmonics* Guohua Liu,2024-11-21 This book is built on the recent advancements in understanding thermoplasmonics and highlights the exciting new directions that are shaping this field Thermoplasmonics using light to heat nanostructures is a promising and rapidly expanding subfield of plasmonics When the light frequency matches the oscillation frequency of free electrons on the nanostructures it induces a collective oscillation known as plasmon resonance This effect allows fantastic control over the optical field at sub wavelength scales enhancing the light matter interaction to surmount the diffraction limits The plasmon resonance is responsible for fascinating and tunable properties such as local field enhancement generation of hot electrons as well as the localized collective heating These energetic carriers and heat can be harvested to drive a wide range of physical and chemical processes making them promising for different fields of science In this book we discuss the recent advances in understanding of thermoplasmonics and highlight some of the exciting new directions covering aspects of its principles materials and characterization along with the diverse applications The basic fundamentals are first introduced from plasmonic theory and thermodynamics to the thermal induced processes Then much effort is placed on examination of thermoplasmonic materials and the common synthesis methods The strategies for proper material selection and rational structural design are summarized toward more efficient energy conversion The synthesizing methods for novel nanostructures are presented with a goal to achieve optimal thermoplasmonic properties Afterward the characterization technologies for thermoplasmonics are also addressed which involves analytic and computational approaches as well as nanoscale thermometry For each application the unique role of thermoplasmonics and their associated benefits are elaborated Research trends and insights into the use of thermoplasmonics to improve performance are analyzed as well Finally the current challenges and future perspectives in this field are pointed out in this book

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