

The Oxidation of Organic Compounds by Non-metallic Anions

G. J. BUIST

1. Kinetics of oxidations by periodate

1.1 INTRODUCTION

Periodate is well known as a specific oxidant in organic chemistry, and it has been used extensively in structural studies of carbohydrates (see reviews by Jackson¹, Bobbitt², and Dryhurst³). Its particular value is that under suitable conditions of pH and temperature its action is largely restricted to the oxidation of certain types of compounds (those classified under (a) below). For example, 1,2-diols and 1,2-diketones are readily oxidised, whereas most alcohols, aldehydes, and ketones are resistant. However, the action of periodate is not nearly so specific as was thought at one time, and there is a wide range of compounds which it is capable of oxidising (Sklarz⁴). Periodate oxidations of organic compounds may be classified as follows: (a) oxidations accompanied by carbon-carbon bond fission (at a suitable pH most of these proceed rapidly at room temperature or below), (b) other types of oxidations proceeding at a measurable rate at room temperature, and (c) oxidations whose rate is only appreciable at higher temperatures, or in the presence of ultraviolet radiation. Oxidations of type (a) are often referred to as "Malapradian" after the discoverer of the fission of 1,2-diols by periodate (Malaprade⁵, 1928). Other compounds whose oxidations are of this type are 1,2-diketones, 1,2-hydroxyketones, 1,2-aminoalcohols, 1,2-diamines, α -hydroxy acids, and α -keto acids. Most kinetic studies of periodate oxidations have concerned the reaction with 1,2-diols, but some work on other oxidations of type (a) has been reported, and will be reviewed in sections 1.4 and 1.5. The very few kinetic studies of oxidations of type (b) will be reviewed in sections 1.6 and 1.7. No kinetic studies of type (c) oxidations have been reported. Bunton⁶ has reviewed the mechanisms of periodate oxidations.

In most of its reactions periodate is a two-electron oxidant, and it is reduced to iodate. Periodate oxidations are normally carried out in aqueous solution, but organic or mixed aqueous-organic solvents can be used (Qureshi and Sklarz⁷) and in section 1.8 the very limited amount of kinetic data available for mixed solvents is reviewed.

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Pharmaceutical Organic Chemistry, Vol 1 Mr. Rohit Manglik,2024-05-24 This volume covers the fundamentals of organic chemistry with a focus on pharmaceutical applications including structure properties and reactions of organic compounds relevant to drug development

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A Textbook of Organic Chemistry Vol-1 Dr. Akshay Kumar Shukla,Dr. Alka Tangri,Dr. Anjali Shukla,2020-06-22 Knowledge of organic chemistry continues to move ahead in the many fronts This Competitor s Organic Chemistry has been thoroughly covering the subject to reflect this growth Competitor s Organic Chemistry has been divided in three volumes I II and III for the study of organic chemistry to the students of B Sc I II and III respectively These books have been written according to UGC curriculum and cover full syllabus The series of books are basically designed for the study of organic chemistry of graduate level students but these books will also be helpful and useful for many competitive examinations The books describe the basic and fundamental concepts basic structures reactions and mechanisms of organic chemistry An effort has also been made to guide the students for reaction based numerical problems of organic chemistry The readers will observe that this text contains much and sufficient material and it goes more deeply into the subject It is our request that readers will provide their valuable feedback about books

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Organic Compounds Mechanistic Principles and Synthetic focuses on the oxidative transformations of functional groups This book explores oxidation as being extensively used in the laboratory synthesis of fine organic chemicals and in the manufacture of large volume petrochemicals Organized into two parts encompassing 13 chapters this book starts with an overview of the mechanistic principles of oxidation reduction in biochemical organic and inorganic systems This text then proceeds with a discussion of the use of molecular oxygen hydrogen peroxide and alkyl hydroperoxides as primary oxidants Other chapters explore stoichiometric oxidations with metal oxidants which include permanganate and chromic acid This book discusses as well the synthetic applications of catalytic oxidations as well as the technology of petrochemical oxidation The final chapter deals with the autoxidations of sulfur phosphorus and nitrogen compounds This book is intended for chemists involved in organic synthesis catalysis and organometallic chemistry both in academic institutions and in industrial laboratories

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March's Advanced Organic Chemistry Michael B. Smith, 2020-02-19 The completely revised and updated definitive resource for students and professionals in organic chemistry The revised and updated 8th edition of March's Advanced Organic Chemistry Reactions Mechanisms and Structure explains the theories of organic chemistry with examples and reactions This book is the most comprehensive resource about organic chemistry available Readers are guided on the planning and execution of multi step synthetic reactions with detailed descriptions of all the reactions The opening chapters of March's Advanced Organic Chemistry 8th Edition deal with the structure of organic compounds and discuss important organic chemistry bonds fundamental principles of conformation and stereochemistry of organic molecules and reactive intermediates in organic chemistry Further coverage concerns general

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The Elements of Qualitative Chemical Analysis, vol. 1 Julius Stieglitz,2020-08-13 Reproduction of the original The Elements of Qualitative Chemical Analysis vol 1 by Julius Stieglitz

Green Chemistry, its Role in Achieving Sustainable Development Goals, Volume1 Sanjay K. Sharma,2023-10-03 Green Chemistry practices and principals can play an important role in achieving the United Nations UN special development goals The expert contributors here have selected key goals and reviewed the implementation of green chemistry for these goals As described by the UN it is crucial to harmonize three core elements economic growth social inclusion and environmental protection The sustainable development goals embrace the sustainability mindset and this will lead to greater productivity and a greener environment For sustainable development to be achieved these elements are interconnected and all are crucial for the well being of individuals and societies Features The chapters explore sustainable development through green engineering Demonstrates the progress made in the search for processes that use fewer toxic chemicals and produce less waste while using less energy Highlights the importance of chemistry to everyday life and demonstrates the benefits the exploitation of green chemistry can have for society The pollution of water is of the utmost concern globally and bioremediation has a strong role to play in ensuring adequate supplies of high quality water These unique volumes address the vast interest in green chemistry and clean processes which has grown significantly in recent years

[The Chemistry of the Actinide and Transactinide Elements \(Set Vol.1-6\)](#) L.R. Morss,Norman M. Edelstein,Jean Fuger,2010-10-21 The fourth edition of The Chemistry of the Actinide and Transactinide Elements comprises all chapters in volumes 1 through 5 of the third edition published in 2006 plus a new volume 6 To remain consistent with the plan of the first edition to provide a comprehensive and uniform treatment of the chemistry of the actinide and transactinide elements for both the nuclear technologist and the inorganic and physical chemist and to be consistent with the maturity of the field the fourth edition is organized in three parts The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties A chapter on the chemical properties of the transactinide elements follows The second group chapters 15 26 summarizes and correlates physical and chemical properties that are in general unique to the

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Organic Electrochemistry, Fourth Edition, Ole Hammerich, Henning Lund, 2000-12-14 A presentation of developments in the electrochemistry of C₆₀ and related compounds electroenzymatic synthesis conducting polymers and electrochemical partial fluorination It contains accounts of carbonyl compounds anodic oxidation of oxygen containing compounds electrosynthesis of bioactive materials electrolyte reductive coupling and more **Chemistry Vol.-1** YCT Expert Team, 2022

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