

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.

Oxidation Of Organic Compounds Volume 1

Julius Stieglitz



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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 **Wastewater Treatment and Reuse, Theory and Design Examples, Volume 1** Syed R. Qasim, Guang Zhu, 2017-11-22 This book will present the theory involved in wastewater treatment processes define the important design parameters involved and provide typical values of these parameters for ready reference and also provide numerical applications and step by step calculation procedures in solved examples These examples and solutions will help enhance the readers comprehension and deeper understanding of the basic concepts and can be applied by plant designers to design various components of the treatment facilities It will also examine the actual calculation steps in numerical examples focusing on practical application of theory and principles into process and water treatment facility design The Chemistry of Peroxides, Volume 3 , 2015-04-20 The understanding of functional groups is key for the understanding of all organic chemistry In the tradition of the Patai Series each volume treats all aspects of functional groups Each volume contains chapters on the theoretical and physicochemical foundations on analytical aspects on reaction mechanisms on applications in synthesis Depending on the functional group there are additional chapters on industrial use on medical use and on human and environmental toxicity issues The last volume in the series on the topic Peroxides Vol 2 was published in 2006 In the eight years since then a lot of developments have taken place especially in the areas of synthesis analysis and a better theoretical understanding of the reaction mechanism all of which are covered here As with all new volumes the chapters are first published online in Patai s Chemistry of Functional Groups Once a volume is completed online it is then published in print format The printed book offers the traditional quality of the Patai Book Series complete with an extensive index Chemistry Vol.-1 YCT Expert Team , 2022 23 NTA NEET JEE MAIN Chemistry Vol 1 Chapter wise Solved Papers **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

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