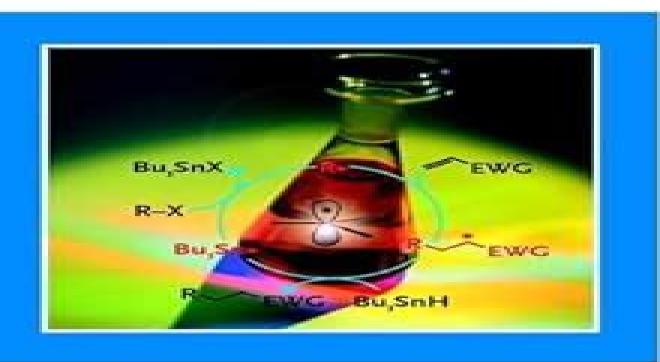


Radicals in Organic Synthesis

Volume 1: Basic Principles

Edited by Philippe Renaud and Mukund P. Sibi



Radicals In Organic Synthesis

William B. Motherwell, David Crich

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Ion-Radical Organic Chemistry Zory Vlad

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Todres, 2002-09-10 Examining the formation transformation and application of ion radicals in typical conditions of organic synthesis Organic Ion Radicals Chemistry and Applications explains the reactions and principles of ion radical chemistry The author addresses methods of determining ion radical mechanisms and controlling ion radical reactions issues relating to ecology and biology and inorganic participants in ion radical organic reactions Applications discussed include the roles of ion radicals in biological systems and their uses in optoelectronics organic metals and the manufacture of paper Radicals in Synthesis and Biology F. Minisci, 2012-12-06 Free radical reactions have been for long time the domain of the physical chemists and the basic chemical industry polymerization of vinyl monomers oxidation by molecular oxygen chlorination of methane etc where the use of simple molecules and the possibility of partial conversions without heavy problems of product separations makes less dramatic the aspects of regio and chemoselectivity As synonym of unselectivity free radical reactions were considered of poor use in the synthesis of fine chemicals or sophisticated molecules where a high selectivity is an essential condition for the success or in the involvement of biological processes Within the last 15 years however an authentic explosion of synthetic applications of free radical reactions occurred they have gained a remarkable position among the selective methods of synthesis At the same time the great importance of free radical reactions in fundamental biological processes and in the metabolism of drugs has been recognized Thus a specialized meeting on these topics was generally felt appropriate I had the honour and the onus to organize this workshop because for more than 30 years I have been involved in the research of free radical reactions Thanks to a generous grant from NATO Scientific Affairs Division and the financial support of CNR and chemical industry Montedison Enichem Zambon such a meeting among almost 50 specialists and 15 observers of sufficient standard to take advantage of the discussion became possible at Bardolino Italy

Free Radicals in Organic Synthesis Eric Bosch,1989 Free Radical Chain Reactions in Organic Synthesis William B. Motherwell,David Crich,2013-10-22 Written for both the experienced practitioner and the newcomer this book provides essential guidance to the practical aspects of free radical chain reactions The book presents tried and tested synthetic schemes as well as a selection of recently developed methods describing rationally designed highly efficient syntheses giving high yield interconversions of functional groups and carbon b1carbon bond formation under mild neutral conditions Written by two experienced practitioners in the field this volume explodes the myth that free radicals are highly reactive non selective intermediates Contains an extensive introduction discussing principles advantages and disadvantages of radical chain reactions Demonstrates functional group interconversions by radical chain reactions Lists carbon b1carbon bond formations Presents inter and intramolecular radical chain reactions Includes many examples and experimental details selected by experienced practitioners in this field Ion-Radical Organic Chemistry Zory Vlad Todres,2002-09-10 Examining the formation transformation and application of ion radicals in typical conditions of organic synthesis Organic Ion Radicals Chemistry and Applications explains the reactions and principles of ion radical chemistry The author addresses

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