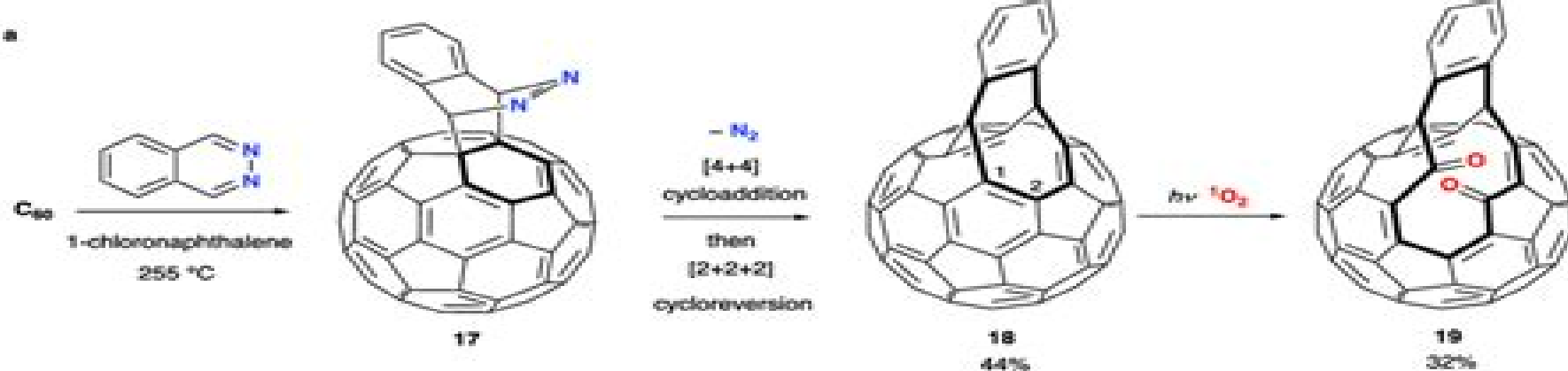
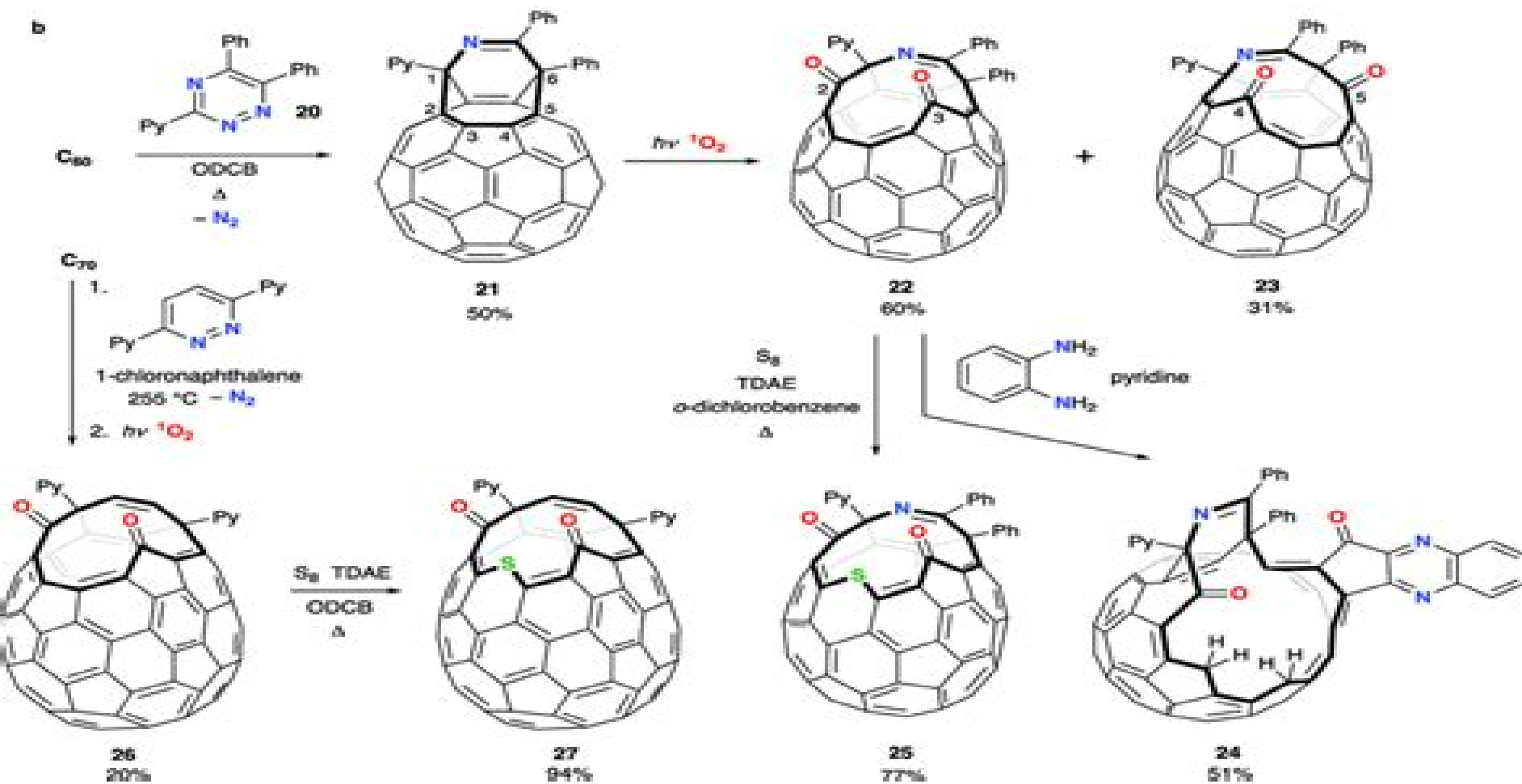


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Radical Reactions Of Fullerenes And Their Derivatives

Carl N. Kramer



Radical Reactions Of Fullerenes And Their Derivatives:

Radical Reactions of Fullerenes and their Derivatives B.L. Tumanskii, O. Kalina, 2006-04-11 The discovery of fullerenes species belonging to the electron deficient polyalkenes with weakly conjugated double bonds has opened novel opportunities for the radical chemistry Pioneering study in this field was performed by P J Krusic E Wasserman P N Keizer J R Morton and K F Preston Science 1991 254 1184 The fullereryl radical adducts formed via addition of atoms or free radicals to fullerenes have no analogs in organic chemistry In fact radicals in which the unpaired electrons are delocalized over the surface of a sphere or ellipsoid have never been studied before The unusual character of the fullereryl radicals is also due to the fact that they occupy a sort of intermediate position between the planar and tetrahedral radicals Thus the elucidation of the characteristic features of fullereryl radicals and their reactivity by EPR spectroscopy and the comparison of the results with those of quantum chemical studies are of fundamental importance Isolation of the products from homolytic reactions of fullerenes in bulk amounts opens the door to large scale preparation of new organic and organoelement derivatives of including biologically active ones Radical reactions of fullerenes find wide application in the synthesis of fullerene containing polymers with valuable photophysical characteristics Ferromagnetism of the complex of with tetra dimethylamino ethylene found lends impetus to a search of novel methods for preparation of biradicals one unpaired electron of those is located on the fullerene cage while the other retained by the addend

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Fullerene Research Advances Carl N. Kramer, 2007 Until 1985 the chemical element Carbon was only known to exist in two forms diamond and graphite This changed when Kroto and co workers discovered an entirely new form of carbon which became known as C₆₀ or the fullerene molecule This discovery later led to their award of the 1996 Nobel Prize in Chemistry The original discovery of C₆₀ was in

the soot produced from the laser ablation of graphite Since then other methods of production have been developed It is also thought that isolated C₆₀ molecules may be found in stars and interstellar media It was soon discovered that C₆₀ is not the only ball like carbon molecule possible although it is the most stable and the most dominant The rugby ball shaped C₇₀ molecule is another possibility In nanotechnology the potential applications of carbon nanotubes formed by combining hexagonal rings of carbon atoms only rather than hexagons and pentagons as in C₆₀ for very small electronic devices are currently the subject of much activity This book presents the latest research in this dynamic field CRC Handbook of Organic Photochemistry and Photobiology, Volumes 1 & 2 William M. Horspool, Francesco Lenci, 2003-09-29 The second edition of this best selling handbook is bigger more comprehensive and now completely current In addition to thorough updates to the discussions featured in the first edition this edition includes 66 new chapters that reflect recent developments new applications and emerging areas of interest Within the handbook s 145 critically r

Lecture Notes On Fullerene Chemistry: A Handbook For Chemists Roger Taylor, 1999-02-25 The fullerenes hailed as one of the discoveries of the century have created whole new fields of organic organometallic chemistry and of physics Together with the related nanotubes they hold the promise of providing new materials with novel chemical and solid state properties The cost of the basic fullerenes is now such that research into them is feasible for very many chemists This book describes the fundamental aspects of fullerene chemistry Following brief background on the discovery basic fullerene nomenclature and relevant properties including those of endohedral fullerenes and nanotubes there are chapters describing the rules governing the addition patterns and each of the reaction types with representative examples Leading references are given to key papers describing individual reactions and phenomena *Endofullerenes* T. Akasaka, Sh. Nagase, 2002-10-31 To the eyes of a chemist carbon is certainly one of the most fascinating elements of the periodic table Basically the electronic structure and atomic size of carbon enables this element to form a variety of bonds with other elements and most importantly with other carbon atoms as well These unique features lead to the amazingly complicated molecular structures we encounter e g in life sciences and organic chemistry Of course the technical importance of carbon is enormous but I don t want to carry too many coals to Newcastle From the viewpoint of an astrophysicist or chemist the significance of carbon lies in the fact that it is the most abundant condensable element in space Born in the interior of stars and from there expelled into the interstellar medium it initiates the formation of simple and complex molecules and of nanoscopic grains These in turn form huge clouds in space the birthplace of new stars and planetary systems The decisive role of carbon in interstellar chemistry is widely accepted and the search for more and more families of interstellar carbon bearing molecules is a topic of ongoing research The interdisciplinary aspect of carbon also concerns its various solid forms in which C and the other closed cage fullerenes are certainly some of the most popular 60 newcomers *Fullerenes* Karl M. Kadish, Rodney S. Ruoff, 2000-07-06 Fullerenes a guide to the current state of knowledge in the field The last decade has seen an explosion of research into the chemical and

physical properties of a promising new class of carbon based materials known as fullerenes Karl Kadish and Rodney Ruoff two highly recognized leaders in the fullerene and nanotube research community edit a comprehensive and much needed survey of this important and rapidly evolving field Contributions by experts in diverse areas of chemistry physics pharmacology materials science and chemical engineering provide an excellent introduction to fullerenes and highlight their considerable potential in such cutting edge applications as semiconductor materials new pharmaceutical compounds and polymers From the electrochemistry of fullerenes to molecular and solid C₃₆ this book offers a remarkably fresh and authoritative look at some of the hottest research topics today including Organic functionalization of fullerenes Photophysical properties of different types of fullerenes Polyfunctional polymer derivatives of fullerenes The theory and production of endohedral metallofullerenes Fullerene surface interactions Superconductivity in fullerenes Synthesis of materials incorporated within carbon nanotubes

Periodic Nanostructures Mircea V. Diudea, Csaba L. Nagy, 2007-08-23 These tiny structures could offer architectural designs for the cities of the future The authors explore the foam like carbon structures which relate to schwarzites and which are infinite periodic minimal surfaces of negative curvature They show that the periodicity of close repeat units of such structures is evident not only in these formations but also in all of the carbon allotropes The text provides literature and data on the field of nanostructure periodicity and the authors own results on nanostructure building and energy calculations

Handbook of Fullerene Science and Technology Xing Lu, Takeshi Akasaka, Zdeněk Slanina, 2022-09-24 Nanocarbon chemistry and physics is a fast developing broad research area the Nobel prizes in 1996 and 2010 awarded to two key discoveries in the field and several other nanocarbon achievements of comparable importance Owing to this rapid growth the nanocarbon landscape fundamentally changes every few years creating a need to survey the field on a regular basis to update the books that have become incomplete or even obsolete As such this book focuses on fullerenes and metallofullerenes and also on the related areas of nanotubes and graphenes All the covered research topics provide important fundamental knowledge for the natural sciences but also for applications in molecular electronics superconductivity catalysis photovoltaics and medical diagnostics The current nanocarbon research activities have particularly high application potential in the conversion of solar energy future molecular memories non conventional materials for optoelectronics and new treatments for civilization diseases Offering a truly up to date critical survey of nanocarbon science its concepts and highlights it follows the concept of a handbook it addresses key topics systematically from historical background methodological aspects current important issues and application potential all supplied with extensive referencing With individual chapters written by leading experts with extensive research experience it is a comprehensive reference resource for graduate students and active researchers alike

Electronic Structure Calculations on Fullerenes and Their Derivatives Jerzy Cioslowski, 1995 This book provides a comprehensive overview of the latest approaches to electronic structure calculations of fullerenes Topics include C₆₀ and C₇₀ molecules the medium

size fullerenes large carbon clusters hypothetical allotropic forms of carbon small fullerenes endohedral complexes heterofullerenes fullerene derivatives and solid state fullerenes A summary of recent research breakthroughs and a discussion of potential future directions round out the book Far reaching and well written the book will be welcomed by students and researchers in chemistry and quantum physics

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