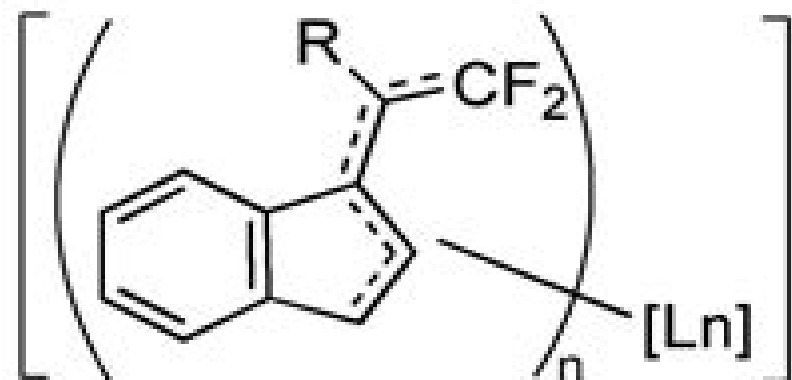


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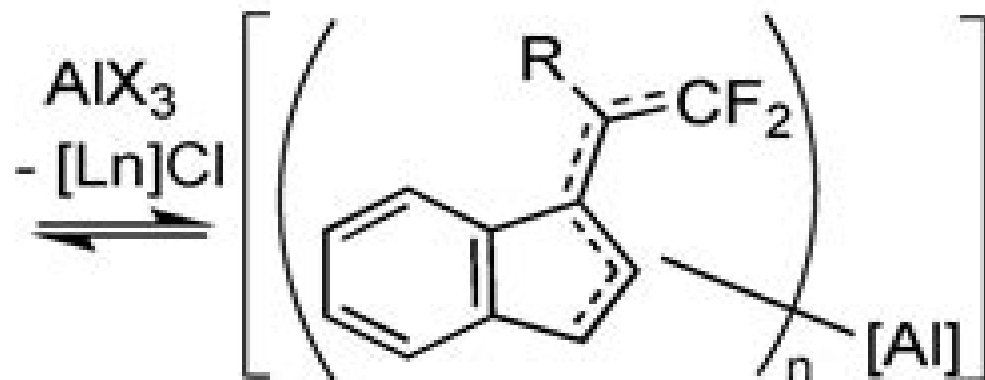
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4

characterized by ¹⁹F NMR

R'CHO ↓

109 + 110



115

characterized by ¹⁹F NMR
and HR-ESMS

R'CHO ↓

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Lanthanides In Organic Synthesis

Shu Kobayashi



Lanthanides In Organic Synthesis:

Lanthanides: Chemistry and Use in Organic Synthesis Reiner Anwander, 1999-03-08 The use of lanthanides in organic chemistry and in organic synthesis has attracted broad interest recently because of the unique reactivities and selectivities exhibited by compounds of these rare earth elements In particular several major advances have been made in the last five years This volume of Topics in Organometallic Chemistry is designed to provide the specialist and non specialist alike with a much needed overview of recent developments Contributions by leaders in the field focus on stereoselective organic synthesis using lanthanides the principles of lanthanide chemistry lanthanide based chiral catalysts low valent lanthanide compounds polymer synthesis using lanthanide catalysts and polymer supported lanthanide catalysts used in organic synthesis Lanthanides in Organic Synthesis Tsuneo Imamoto, 1994 Organic synthesis with lanthanides has experienced enormous growth in the last ten years Numerous synthetic reactions have been explored by the use of lanthanide reagents and some of these have become indispensable in modern organic synthesis This book describes the remarkable scope and potential of these reagents addressing this rapidly growing area from a practical point of view The author has summarized synthetically useful and novel organic transformations emphasizing the characteristic properties of lanthanide reagents These transformations are concisely and skillfully presented in many schemes and tables with actual illustrative preparations The coverage includes the use of lanthanide metals the powerful divalent reagents such as samarium II iodide the key trivalent reagents and their particular role as catalysts in selective reductions and cycloadditions and the tetravalent lanthanides as oxidants Describes the remarkable scope and potential of lanthanide reagents from a practical point of view Presents actual experimental procedures Provides a concise presentation of useful and novel organic transformations in table format **Lanthanides: Chemistry and Use in Organic Synthesis** Shu Kobayashi, 2003-07-01 With contributions by numerous experts Lanthanides Shu Kobayashi, 2014-01-15 The use of lanthanides in organic chemistry and in organic synthesis has attracted broad interest recently because of the unique reactivities and selectivities exhibited by compounds of these rare earth elements In particular several major advances have been made in the last five years This volume of Topics in Organometallic Chemistry is designed to provide the specialist and non specialist alike with a much needed overview of recent developments Contributions by leaders in the field focus on stereoselective organic synthesis using lanthanides the principles of lanthanide chemistry lanthanide based chiral catalysts low valent lanthanide compounds polymer synthesis using lanthanide catalysts and polymer supported lanthanide catalysts used in organic synthesis *Lanthanides And Actinides, The: Synthesis, Reactivity, Properties And Applications* Stephen T Liddle, David P Mills, Louise Sarah Natrajan, 2021-12-30 The Lanthanides and Actinides Synthesis Reactivity Properties and Applications constitutes an introduction to and comprehensive coverage of f block chemistry encompassing the following areas periodicity natural occurrence and extraction separations electronic structure coordination chemistry organometallic chemistry small

molecule activation catalysis organic synthesis applications magnetism spectroscopy computation materials photonics solar cell technology biological imaging and technological applications Under these subject areas the book provides a broad but deep coverage providing basic overviews as well as detailed chapters on specific areas This book targeted at academics postgraduates and advanced undergraduates will serve as an ideal introductory text and key reference work to the Lanthanides and Actinides *Lanthanides in Organic Synthesis* Jeffrey Beard Etter, 1987 *Lanthanides in Organic Synthesis*, 1986 *Comprehensive Organic Synthesis*, 2014-02-14 The second edition of *Comprehensive Organic Synthesis* winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers builds upon the highly respected first edition in drawing together the new common themes that underlie the many disparate areas of organic chemistry These themes support effective and efficient synthetic strategies thus providing a comprehensive overview of this important discipline Fully revised and updated this new set forms an essential reference work for all those seeking information on the solution of synthetic problems whether they are experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find *Comprehensive Organic Synthesis Second Edition Nine Volume Set* an invaluable source providing an authoritative overview of core concepts Winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers Contains more than 170 articles across nine volumes including detailed analysis of core topics such as bonds oxidation and reduction Includes more than 10 000 schemes and images Fully revised and updated important growth areas including combinatorial chemistry new technological industrial and green chemistry developments are covered extensively **Lanthanide and Actinide Chemistry** Simon Cotton, 2013-03-15 The only introduction into the exciting chemistry of Lanthanides and Actinides The book is based on a number of courses on f elements The author has a long experience in teaching this field of chemistry Lanthanides have become very common elements in research and technology applications this book offers the basic knowledge The book offers insights into a vast range of applications from lasers to synthesis The *Inorganic Chemistry A Textbook* series reflects the pivotal role of modern inorganic and physical chemistry in a whole range of emerging areas such as materials chemistry green chemistry and bioinorganic chemistry as well as providing a solid grounding in established areas such as solid state chemistry coordination chemistry main group chemistry and physical inorganic chemistry *Lanthanide and Actinide Chemistry* is a one volume account of the Lanthanides including scandium and yttrium the Actinides and the Transactinide elements intended as an introductory treatment for undergraduate and postgraduate students The principal features of these elements are set out in detail enabling clear comparison and contrast with the Transition Elements and Main Group metals The book covers the extraction of the elements from their ores and their purification as well as the synthesis of the man made elements the properties of the elements and principal binary compounds detailed accounts of their coordination chemistry and

organometallic chemistry from both preparative and structural viewpoints with a clear explanation of the factors responsible for the adoption of particular coordination numbers spectroscopy and magnetism especially for the lanthanides with case studies and accounts of applications in areas like magnetic resonance imaging lasers and luminescence nuclear separations and problems in waste disposal for the radioactive elements particularly in the context of plutonium Latest developments are covered in areas like the synthesis of the latest man made elements whilst there is a whole chapter on the application of lanthanide compounds in synthetic organic chemistry End of chapter questions suitable for tutorial discussions are provided whilst there is a very comprehensive bibliography providing ready access to further reading on all topics **Current**

Organic Chemistry, 1999-05 Strategic Applications of Named Reactions in Organic Synthesis Laszlo Kurti, Barbara Czako, 2005-04-29 Kurti and Czako have produced an indispensable tool for specialists and non specialists in organic chemistry This innovative reference work includes 250 organic reactions and their strategic use in the synthesis of complex natural and unnatural products Reactions are thoroughly discussed in a convenient two page layout using full color Its comprehensive coverage superb organization quality of presentation and wealth of references make this a necessity for every organic chemist The first reference work on named reactions to present colored schemes for easier understanding 250 frequently used named reactions are presented in a convenient two page layout with numerous examples An opening list of abbreviations includes both structures and chemical names Contains more than 10 000 references grouped by seminal papers reviews modifications and theoretical works Appendices list reactions in order of discovery group by contemporary usage and provide additional study tools Extensive index quickly locates information using words found in text and drawings

Comprehensive Organic Functional Group Transformations: Synthesis: carbon with one heteroatom attached by a single bond Alan R. Katritzky, Otto Meth-Cohn, Charles Wayne Rees, 1995-12-29 *Organic Synthesis Using Samarium Diodide* David J. Procter, Robert A. Flowers, Troels Skrydstrup, 2010 This title adopts an all you need to know approach to the chemistry of the versatile lanthanide reagent samarium diiodide The authors have distilled the extensive primary literature into a concise practical guide that allows the reader to quickly grasp an understanding of the reagent and its uses

Organic Synthesis in Water P.A. Grieco, 2012-12-06 The use of water as a medium for promoting organic reactions has been rather neglected in the development of organic synthesis despite the fact that it is the solvent in which almost all biochemical processes take place Chemists have only recently started to appreciate the enormous potential water has to offer in the development of new synthetic reactions and strategies where it can offer benefits in both unique chemistry and reduced environmental impact In this new book the editor well known for his contribution to the development of water as a useful medium in synthetic organic chemistry has assembled an international team of authors themselves at the forefront of research into the use of the unique properties of water carrying out organic transformations to provide a timely and concise overview of current research By focusing on the practical use of water in synthetic organic chemistry and with the concern

for the use of solvents in organic chemistry professional chemists particularly those involved in industrial research and development will find this book an essential guide to the current state of the art and a useful starting point in their own research Academic chemists including postgraduate and advanced undergraduate students will find this book an invaluable guide to this exciting and important area of chemistry

Fundamental and Technological Aspects of Organo-f-Element Chemistry Tobin J. Marks, Ignazio L. Fragalà, 2012-12-06 The past decade has seen a dramatic acceleration of activity and interest in phenomena surrounding lanthanide and actinide organo metallic compounds Around the world active research in organo f element synthesis chemistry catalysis crystallography and quantum chemistry is in progress This activity has spanned a remarkably wide range of disciplines from synthetic mechanistic inorganic and organic chemistry to radiochemistry catalytic chemistry spectroscopy vibrational optical magnetic resonance photoelectron Mossbauer X ray and neutron diffraction structural analysis as well as to crystal field and molecular orbital theoretical studies at the interface of chemistry and physics These investigations have been motivated both by fundamental and applied goals The evidence that f element organo metallic compounds have unique chemical and physical properties which cannot be duplicated by organometallic compounds of d block elements has suggested many new areas of endeavor and application For these reasons a great many scientists felt the need for some international forum devoted exclusively to the subject of lanthanide and actinide organometallic compounds In September of 1978 a NATO Advanced Study Institute entitled Organometallics of the f Elements was held at the SOGESTA Conference Center near Urbino Italy It was the universal feeling of the participants that this first meeting was a great success and that vital international communication and collaboration had been stimulated The principal lectures at this Institute were published by Reidel in 1979 as part of the NATO ASI Monograph Series

Organometallics of the f Elements T J Marks and R D Fischer editors Additions to C-X π -Bonds Barry M. Trost, 1992-09-08 Volume 1 provides a detailed survey of reactions that entail the 1,2 addition of nonstabilized carbanion equivalents of carbonyl imino and thiocarbonyl functionality Emphasis has been placed on those reagents that result in highly selective addition reactions Methods are reported to select for example one carbonyl group over another in the same molecule or to add preferentially a fragment to one enantiotopic or diastereotopic face of a carbonyl group Processes that result from an initial addition to the C-X functional group for example alkenations and rearrangements are also covered in this volume

Lanthanides Peng Cheng, 2023-08-17 *Lanthanides Fundamentals and Applications* provides the fundamentals new research promising applications and future outlooks of lanthanide compounds and lanthanide based materials The book begins with an introduction including key concepts oxidation states and sources extraction and separation of the lanthanides followed by spectroscopic and magnetic properties and metals crystals and compounds Organometallic compounds coordination compounds molecular magnetic materials and luminescent materials are covered before a discussion of specific lanthanide applications Spintronics bioimaging photoelectric materials catalysis and nuclear applications are discussed This

comprehensive resource is ideal for researchers and students studying inorganic and materials chemistry in both academia and industry Includes comprehensive and in depth coverage of lanthanides Features the most current research progress on lanthanides Covers a combination view of fundamental research and specific applications of the lanthanides including spintronics bioimaging and additives for photoelectric materials

Current Organic Chemistry ,1999-05 **Lewis Acids in Organic Synthesis** Hisashi Yamamoto,2000 VOLUME 1 Li I Na I and K I Lewis Acids S Saito Mg II and Zn II Lewis Acids Y Motoyama H Nishiyama Achiral B III Lewis Acids K Ishihara Chiral B III Lewis Acids K Ishihara Achiral Al III Lewis Acids T Ooi K Maruoka Chiral Aluminum Lewis Acids in Organic Synthesis W Wulff Silicon IV Lewis Acids M Oishi Sn II and Sn IV Lewis Acids K Ishihara Preparation and Lewis Acid Promoted Addition Reactions of Allylic and Allenic Tin and Indium Reagents J Marshall

The Chemistry of the Metal Carbon Bond, Volume 5 Frank R. Hartley,1990-02-09 Part of a multi volume work within the series The Chemistry of Functional Groups this volume covers the chemistry of the metal carbon bond as a whole but lays emphasis on the carbon end It is also concerned with the use of organometallic compounds in organic and biological synthesis It includes chapters on synthetic techniques such as sonochemistry photochemistry and phase transfer catalysis on synthetic reactions such as asymmetric synthesis oxidation and metathesis on synthetic reagents such as metal clusters organolanthanide organoantimony and organobismuth reagents and chapters on biological alkylation and bio organotin compounds

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