



## Evidence supporting the proposed mechanism

- The introduction of radical scavengers did not inhibit the reaction, suggesting that the free radicals are not major intermediates.
- Cu(II) complex was characterized by EPR and UV-Vis spectra when *NH*-sulfilimine was subjected to the CuBr solution, supporting that *NH*-sulfilimine could facilitate the oxidation of Cu(I) to Cu(II).
- The  $H_2$  gas was detected by headspace gas chromatography (GC) analysis and the hydrogen atom origin of  $H_2$  was confirmed to be from alcoholic solvent by mass spectroscopy while  $CD_3OD$  was employed as the solvent.
- The copper hydride pathway was plausible based on a density functional theory (DFT) computational study.

# Sulfilimines And Related Derivatives

**Emilie Sanchez**



## Sulfilimines And Related Derivatives:

**Sulfilimines and Related Derivatives** Shigeru Ōae, Naomichi Furukawa, 1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

**Sulfilimines and Related Derivatives** Shigeru Oae, Naomichi Furukawa, 1983-01-01 *Organic Sulfur Chemistry* Shigeru Oae, 2018-05-04 This volume contains fundamental knowledge regarding the structure and mechanisms of organic sulfur chemistry Topics include sulfur bondings effects of sulfur groups stereochemistry around sulfur substitution ligand coupling within s sulfurane oxidation reduction and rearrangement References in this work total over 2 300 Anyone with an interest in organic sulfur chemistry will find this book to be fascinating reading *Organic Photochemistry* V. Ramamurthy, 1997-06-26 Features surveys of all areas of organic inorganic physical and biological photochemistry The text serves as a source of scientific findings pertinent to chemistry and biochemistry It addresses the state of developments in the field employing reviews of active research including recent innovations techniques and applications **Chiral Reagents for Asymmetric Synthesis** Leo A. Paquette, 2003-08-01 Derived from the renowned Encyclopedia of Reagents for Organic Synthesis EROS the related editors have created a new handbook which focuses on chiral reagents used in asymmetric synthesis and is designed for the chemist at the bench This new handbook follows the same format as the Encyclopedia including an introduction and an alphabetical arrangement of the reagents As chiral reagents are the key for the successful asymmetric synthesis choosing the right reagents is essential in this handy reference the editors give details on how to prepare store and use the reagents as well as providing key reactions to demonstrate where reagents have been successfully used Comprehensive information on 226 reagents Covers 64 reagents which were not included in EROS All information in one easy to use volume at an affordable price All reagents included will be added to e EROS please visit the site where you can gain access to over 50 000 reactions and 3 800 of the most frequently consulted reagents Visit [www.interscience.wiley.com/eros](http://www.interscience.wiley.com/eros) **Sulfur-Containing Reagents** Leo A. Paquette, 2013-05-30 There are a lot of books available about the chemistry and biology of sulfur However this is the first book with a compilation of all relevant Sulfur containing reagents Synthetic chemists most particularly in the medicinal and pharmaceutical chemists are often called upon to prepare compounds that contain Sulfur as a key structural feature In the past this seemed to be a domain for specialists today every synthetic chemist working in these area is expected to synthesize compounds containing sulfides sulfates sulfones etc This book offers an important source of information for the selection and handling of the right reagents *Sulfur-Mediated Rearrangements I* E. Schaumann, 2007-02-15 In their analysis of experiments and in their planning of syntheses organic chemists consciously or unconsciously tend to use the principle of least motion the chemical equivalent of Occam's razor In rearrangement reactions this principle is violated and may make rearrangements problematic reactions At the same time there is always fascination in the unexpected and so rearrangement reactions are also an attractive field of study Consequently

our understanding of rearrangement reactions is now quite advanced and allows strategic uses in organic synthesis Here a helpful tool that may easily be overlooked is the use of organosulfur functionalities on these rearrangements In fact the presence of sulfur may make rearrangements predictable and productive or allow specific transformations which would otherwise require a tedious synthetic detour The present account is meant to spread this knowledge In addition an introductory chapter gives a survey of the basics of organosulfur chemistry to put the information in the individual chapters into perspective and to help readers who are less familiar with the peculiarities of sulfur in an organic environment The amount of material requiring coverage was so vast that the volume had to be split into two parts We hope that readers will appreciate the comprehensive and up to date information on sulfur mediated rearrangements Fortunately leading experts were available to write the individual chapters and provide state of the art reviews of the current research on sulfur mediated rearrangements It was a pleasure to work with these colleagues and I appreciate their involvement in spite of many other obligations This volume should help the chemical community in their synthetic work and so it was worth the effort Clausthal Zellerfeld October 2006 Ernst Schaumann Contents Sulfur is More Than the Fat Brother of Oxygen An Overview of Organosulfur Chemistry E Schaumann 1 Recent Advances in Pummerer Reactions S Akai Y Kita 35 1 2 Sulfur Migrations A W Sroeme V Gevorgyan 77 1 3 Sulfur Shifts Mechanism and Synthetic Utility S K Bur 125 Author Index Volumes 251 274 173 Subject Index 183 Contents of Volume 275 Sulfur Mediated Rearrangements II Volume Editor Ernst Schaumann ISBN 978 3 540 68099 4 2 3 Sigmatropic Rearrangements of Allylic Sulfur Compounds M Reggelin 2 3 Sigmatropic Rearrangements of Propargylic and Allenic Systems S Braverman M *The Chemistry of Sulphones and Sulphoxides* Saul Patai, Zvi Rappoport, Charles Stirling, 1988-08-18 The most complete resource in functional group chemistry Patai's Chemistry of Functional Groups is one of chemistry's landmark book series in organic chemistry An indispensable resource for the organic chemist this is the most comprehensive reference available in functional group chemistry Founded in 1964 by the late Professor Saul Patai the aim of Patai's Chemistry of Functional Groups is to cover all the aspects of the chemistry of an important functional group in each volume with the emphasis not only on the functional group but on the whole molecule Utilizing Sulfoximines as Both Chiral Auxiliary and Leaving Group in the Cyclized Formation of Optically Active Tertiary Carbon Centers Richard Tadao Matsuoka, 1991 *Optical Resolution Procedures for Chemical Compounds* Paul Newman, 1978 *Journal of Organic Chemistry of the USSR*, 1991 *Bulletin of the Chemical Society of Japan* Nihon Kagakkai, 2000 Selectivity Control Elements for Transition Metal Catalyzed Cycloaddition Reactions Michael Charles Matelich, 1991 Organic Sulfur Compounds N. Kharasch, 2013-10-22 Organic Sulfur Compounds Volume I deals with the chemistry of organic sulfur compounds such as disulfides polysulfides olefins acetylenes and chloroethylenes Topics covered range from the inorganic acids of sulfur and the thermodynamics of organic sulfur compounds to some applications of isotopic sulfur and the stereochemistry of disulfides and polysulfides The mechanism of oxidation of thiols to disulfides is also

discussed Comprised of 40 chapters this volume first considers the precise structures of elemental sulfur in relation to the reactions of sulfur compounds followed by an analysis of the inorganic acids of sulfur The reader is then introduced to the thermodynamics of organic sulfur compounds and the bonding characteristics of the sulfur atom as well as the infrared spectra of organosulfur compounds Subsequent chapters focus on the ionic scission of the sulfur sulfur bond nucleophilic reactions of thiols with acetylene and chloroethylene reactions of sulfur with olefins and the chemistry of isothiocyanates This book should prove useful to advanced students practitioners and research workers in the field of organic chemistry

*Heteroatom Chemistry* Eric Block,1990      **Heterocycles** ,2008      **Russian Journal of General Chemistry** ,1997

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