



## CHAPTER 18

# Ligand properties of organic selenium and tellurium compounds

HENRY J. GYSLING

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# The Organic Chemistry Of Tellurium

**Saul Patai, Zvi Rappoport**



## **The Organic Chemistry Of Tellurium:**

**The Organic Chemistry of Tellurium** Kurt J. Irgolic, 1974      **Tellurium in Organic Synthesis** Nicola

Petragnani, H  lio A. Stefani, 2010-07-07 The increasing number of publications that use tellurium clearly demonstrates the important role of tellurium compounds as unique and powerful tools in a broad range of organic chemical manipulations often characterized by their selective behavior Tellurium in Organic Synthesis provides an overview of the principal aspects of organic tellurium chemistry Many chapters have been enriched and updated in this second edition New chapters include overviews of toxicology and pharmacology and a review on the preparation and reactivity of several tellurium heterocycles The first part of the book focuses on the preparation of selected inorganic tellurium compounds and on the main classes of organotellurium compounds The second part and main interest of the book details the use of these inorganic and organic compounds as reagents to perform specific organic manipulations and synthesis Reactions covered include reduction formation and reaction of anionic species deprotection tellurium cyclizations formation of alkenes use of vinylic tellurides free radical chemistry transmetallations and removal of tellurium Overview of inorganic and organic tellurium chemistry Synthetic applications of tellurium compounds All topics accompanied by detailed experimental procedures      The Organic Chemistry of Tellurium Kurt J. Irgolic, 1974      **Researches on the Organic Chemistry of Tellurium** W. V. Farrar, 1944

*Organic Compounds of Sulphur, Selenium and Tellurium Volume 4* D. R. Hogg, 1970 Annotation Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume      *Selenium and Tellurium Reagents* Risto Laitinen, Raija Oilunkaniemi, 2019-04-01 Selenium and Tellurium Reagents provides an in depth overview of recent advances on the chemistry of these elements Written by internationally recognized experts it gives insight into the synthesis structure analysis and mechanistic studies of these compounds The book is organized into four parts which reflect the applications of Se and Te reagents in four areas inorganic chemistry organic chemistry materials science and biochemistry      **Selenium**

**and Tellurium Chemistry** J. Derek Woollins, Risto Laitinen, 2011-07-28 Our knowledge of the chemistry of selenium and tellurium has seen significant progress in the last few decades This monograph comprises contributions from leading scientists on the latest research into the synthesis structure and bonding of novel selenium and tellurium compounds It provides insight into mechanistic studies of these compounds and describes coordination chemistry involving selenium and tellurium containing ligands Contributions also describe the theoretical and spectroscopic studies of selenium and tellurium compounds Additionally this monograph outlines the applications of selenium and tellurium in biological systems materials science and as reagents in organic synthesis and shows how these applications have been a fundamental driving force behind the research into the inorganic and organic chemistry these fascinating elements      *Organic Compounds of Sulphur, Selenium, and Tellurium* D R Hogg, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume      **Organic Compounds of Sulphur, Selenium and Tellurium Volume 5** D. R. Hogg, 1970 Annotation Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have

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**Synthesis** A. McKillop, 2004-09-16 The individual chapters in this volume cover the scope and impact of main group organometallic compounds and reagents on organic synthesis during the last ten to fifteen years. In a number of chapters, topics are dealt with in detail that either were not covered at all in COMC, e.g., selenium tellurium, or were given scant attention, e.g., oxymercuration, organoantimony compounds. Certain topics like directed metallation and LiKOR bases have only achieved prominence in synthesis in the last ten years and are now reviewed by leading experts. *Tellurium Chemistry*

Bimal Krishna Banik, Sangeeta Bajpai, 2022-10-03 Tellurium, a well-known chalcogen, finds potential applications in various fields from chemistry to other branches of science such as nanotechnology and macromolecular science. However, its safety must also be taken into consideration when exploring its industrial applications. This book explores the breadth of tellurium's applications, outlines strategies for industrial use, and describes the safety concerns of this element. **A Dictionary of**

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