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SULFUR COMPOUNDS IN FREE RADICAL REACTIONS. Part III¹

Thermal decomposition of triphenylmethyl thionitrite

BY

H. VAN ZWET and E. C. KOOYMAN

(Laboratory of Organic Chemistry, University of Leiden, The Netherlands)

Triphenylmethyl thionitrite appears to be a convenient source of triphenylmethylthiyl radicals ($\text{Ph}_3\text{CS}^\bullet$): the thermolysis $\text{Ph}_3\text{CSNO} \rightarrow \text{Ph}_3\text{CS}^\bullet + \text{NO}$ is reversible. The thiyl radicals may react with unalkyl hydrocarbons to form the corresponding thiol.

Introduction

In view of our interest in potential new sources of thiyl radicals¹, it seemed attractive to study the behaviour of thionitrites (RSNO). Investigations by *Tasker and Jones*², *Lecher and Siefken*³ and *Rheinboldt*^{4,5,6} showed that compounds of this class decompose at moderate temperatures (20–60°) to form nitric oxide and disulfides:



This decomposition is likely to follow a homolytic pathway, disulfide arising from combination of thiyl radicals.

The present paper reports on the thermolysis of triphenylmethyl thionitrite (Ph_3CSNO) in solution. This substance has been known since 1919, when it was prepared by *Vorländer and Mittag*⁷ from triphenylmethanethiol and nitrous acid. It is the only thionitrite, so far reported, which is crystalline at room temperature; the substance may be stored in a refrigerator for several days without decomposition. According to *Rheinboldt*⁵, a quantitative yield of nitric oxide is formed upon heating.

¹ Part I: *H. van Zwet and E. C. Kooyma*n, *Rec. Trav. Chim.* **86**, 993 (1967).

Part II: *H. van Zwet and E. C. Kooyma*n, *ibid.* **86**, 1143 (1967).

² *H. S. Tasker and H. O. Jones*, *J. Chem. Soc.* **95**, 1910 (1909).

³ *H. Lecher and W. Siefken*, *Ber.* **59**, 1314, 2594 (1926).

⁴ *H. Rheinboldt*, *ibid.* **59**, 1311 (1926).

⁵ *H. Rheinboldt, M. Dewald and O. Diepenbruck*, *J. Prakt. Chem.* (2) **130**, 133 (1931).

⁶ *H. Rheinboldt and F. Mott*, *ibid.* (2) **133**, 328 (1932).

⁷ *D. Vorländer and E. Mittag*, *Ber.* **52**, 413 (1919).

The Analytical Chemistry Of Sulfur And Its Compounds

Part Iii

Stephen G. Schulman



The Analytical Chemistry Of Sulfur And Its Compounds Part Iii:

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 *The Analytical Chemistry of Sulfur and Its Compounds*, 1971 **The Practice of NMR Spectroscopy** Nugent

Chamberlain, 2013-11-11 I GENERAL When a sample containing hydrogen is placed in the Although it is assumed that the reader has been exposed static magnetic field each hydrogen nucleus will precess to the elementary theory of NMR and to the operation at a frequency determined by the magnetic field it of an NMR spectrometer a brief review of some of the actually experiences This field in turn is determined by basic concepts and definitions will indicate the point of the electronic and therefore the chemical environment view used in this book and clarify some of the defini of the nucleus Thus the variety of chemical environ tions The discussion is confined to the hydrogen l iso ments that exist in a molecule will produce a spectrum tope because this is by far the most generally used and of precession frequencies that will indicate the chemical consequently far more data are available for it than for nature of the various parts of the molecule The remain any other isotope This wealth of data in turn leads to ing problem is to observe this spectrum of frequencies the most accurate and comprehensive set of spectra There are two general methods of observing the structure correlations spectrum

The Analytical Chemistry Of Sulfur and Its Compounds (Volume 29; Part 3) and Nuclear-Magnetic-Resonance Data of Sulfur Compounds Karchmer JH., 1971 *The Chemistry of Inorganic Ring Systems* R. Steudel, 2013-10-22 The present volume considers the most recent developments in the chemistry of cyclic inorganic and organoelement compounds Nineteen of the 22 chapters are based on invited and other lectures presented at the 6th International Symposium on Inorganic Ring Systems held in Berlin on August 18 22 1991 Main group compounds dominate the content from boron via carbon silicon germanium tin nitrogen phosphorus and arsenic to sulfur and selenium The book is organized by element moving from left to right in the main groups of the Periodic Table followed by one chapter each on bonding and nomenclature of ring molecules The list of contributors comprises distinguished scientists from 8 countries **Handbook of Coal Analysis** James G.

Speight, 2005-05-13 All the guidance needed to test coal and analyze the results With the skyrocketing costs of most fuel sources government industry and consumers are taking a greater interest in coal an abundant and inexpensive alternative which has been made more environmentally friendly through new technology Published in response to this renewed interest Handbook of Coal Analysis provides readers with everything they need to know about testing and analyzing coal Moreover it explains the meaning of test results and how these results can predict coal behavior and its corresponding environmental impact during use The thorough coverage of coal analysis includes Detailed presentation of necessary standard tests and

procedures Explanation of coal behavior relative to its usage alongside the corresponding environmental issues Coverage of nomenclature terminology sampling and accuracy and precision of analysis Step by step test method protocols for proximate analysis ultimate analysis mineral matter physical and electrical properties thermal properties mechanical properties spectroscopic properties and solvent properties Emphasis on relevant American Society for Testing and Materials ASTM standards and test methods including corresponding International Organization for Standardization ISO and British Standards Institution BSI test method numbers To assist readers in understanding the material a glossary of terms is provided Each term is defined in straightforward language that enables readers to better grasp complex concepts and theory References at the end of each chapter lead readers to more in depth discussions of specialized topics This is an essential reference for analytical chemists process chemists and engineers in the coal industry as well as other professionals and researchers who are looking to coal as a means to decrease dependence on foreign oil sources and devise more efficient cleaner methods of energy production

Environmental Technologies to Treat Sulfur Pollution Piet Lens, L. W. Hulshoff Pol, 2000-01-01 Environmental Technologies to Treat Sulfur Pollution Principles and Engineering provides a definitive and detailed discussion of state of the art environmental technologies to treat pollution by sulfurous compounds of wastewater off gases solid waste soils and sediments Special attention is given to novel bioremediation techniques that have been developed over the last 10 years Information density is unique owing to the many figures and graphs 150 tables over 80 and over 1500 cited literature references A detailed subject index helps the reader to find their way through the different technological applications making it the perfect reference work for professionals and consultants dealing with sulfur related environmental bio technologies Contents Part I The sulfur cycle Part II Technologies to Desulfurise Resources Part III Treatment of Waters Polluted by Sulfurous Compounds Part IV Treatment of Gases Polluted by Sulfurous Compounds Part V Treatment of Soils and Sediments Polluted by Sulfurous Compounds Part VI Other Applications of Sulfur Cycle

Bioconversions in Environmental Engineering Part VII Problems Related to Sulfur Cycle Bioconversions **Treatise on Analytical Chemistry** Izaak Maurits Kolthoff, Philip Juliber Elving, 1959 Recent Developments in Ion Exchange Peter A. Williams, M.J. Hudson, 2012-12-06 These Conference Proceedings deal with the papers presented at the International Conference on Ion Exchange Processes ION EX 90 which was held at The North East Wales Institute of Higher Education 9 11 July 1990 The camera ready paper format was chosen so that delegates could receive their copy on arrival at the Conference The Proceedings include reviews of biological materials inorganic ion exchangers the nuclear industry theoretical aspects and new advances In addition there are research papers dealing with industrial ion exchange procedures and new materials The Proceedings should therefore be of interest to those who need to be brought up to date in the various aspects of processes which involve ion exchange and ion chromatography which are now accepted as important in analysis separation processes and process control In each of these areas there have been important developments which are herein

described As Editors we should like to express our thanks to the individual authors for preparing their manuscripts in the required format and to Haydn Hughes and Linda Sneddon for their invaluable assistance in compiling these Proceedings

PETER A WILLIAMS MICHAEL J HUDSON V 1 CONTENTS v Preface Part 1 Biological Materials The Importance of Ion Exchange Processes in Living Systems 3 R J P Williams The Use of Chemically Suppressed Ion Chromatography in Elemental Analysis 17 J P Senior Biological Separations Using Latex Based Pellicular Resins 23 K **Chemical Engineering Catalog**,1918 **Nuclear Science Abstracts** ,1975 **Analytical Chemistry** Frederick Pearson Treadwell,1924 **Air Pollution Abstracts** ,1970 Molecular Luminescence Spectroscopy, Part 3 Stephen G. Schulman,1993-03-22 Over the past three decades luminescence spectroscopy has transcended its origins as a curiosity in the physical laboratory to become a widely used and respected staple of the analytical chemist s instrumentation arsenal Fluorescence chemiluminescence and phosphorescence spectroscopies are now routinely applied to such real analytical problems as the quantitaion qualitative identification and structural characterization of organic and inorganic compounds and even of cellular structures And the list of recent advances in analytical applications of luminescence spectroscopy keeps growing The earlier volumes of Molecular Luminescence Spectroscopy provided professional chemists with a detailed exhaustive and up to date look at the applications of fluorescence phosphorescence and chemiluminescence spectra to the analysis of organic and inorganic compounds Presenting topics never available in any analytical text such as excited state optical activity and bioinorganic luminescence spectroscopy the volumes represented a significant advance in the chemical literature Part 3 continues the book s always current and practical examination of the field s newest innovative turns In a clear systematic format Part 3 discusses such widespread or ascendant laboratory techniques as photochemically generated fluorophores fluorescent probes luminescence from bile salt aggregates hole burning spectroscopy laser excited microspectro fluorometry near infrared luminescence spectroscopy Other topics such as the fluorescence and phosphorescence of pharmaceuticals and natural products have never been reviewed as exhaustively before The chapters on fluorescence detection in chromatography and luminescence immunoassay are the most up to date treatments available on these subjects Invaluable to analytical chemists instructors and students Molecular Luminescence Spectroscopy Part 3 offers expert guidance on the practical specifics of this multi faceted technique as well as its farreaching analytical possibilities **N.A.P.C.A. Abstract Bulletin** United States. Environmental Protection Agency,1971 **James Hutton's Medical Dissertation** Arthur L. Donovan,1980 This is a print on demand edition of a hard to find publication **Analytical Methods for Coal and Coal Products** Clarence Jr. Karr,2012-12-02 Analytical Methods for Coal and Coal Products Volume I presents the analytical problems and methods for coal and its numerous products This book discusses the technological importance of the measurement of the physical properties of coal Organized into four parts encompassing 19 chapters this volume starts with an overview of the petrographic analysis of coal wherein it involves two distinctive methods namely the reflected light and the transmitted light techniques This text then

discusses the means and methods of reflectance determination and proceeds to outline some of the results obtained and conclusions derived from them about the nature of coal. Other chapters explain the mechanical properties of coal which are measured in order to predict its behavior in coal mines, coal winning, coal storage, coal comminution, coal handling, briquetting and agglomeration and several other situations. The final chapter deals with the characterization of the liquid products of coal conversion. This book is a valuable resource for engineers, scientists, chemists and researchers. *The Chemist's Companion*

Arnold J. Gordon, Richard A. Ford, 1973-01-19. Here in one source is a wide variety of practical everyday information often required by chemists but seldom found together if at all in the standard handbooks, data collections, manuals and other usual sources. Discussing physical, chemical and mechanical properties of substances and systems, the authors answer such questions as: How do I test for and destroy peroxides in different solvents and what is the best way to purify such solvents? What are the structure, physical properties and recent references to the use of common name solvents and solvent aids such as the Skellysolves, Cellosolves, Crownanes and Glymes? What is the utility of a particular molecular sieve or permeation gel or epoxy cement or liquid crystal and where do I buy them and find references to their application? The book is divided into nine chapters and covers properties of atoms and molecules, spectroscopy, photochemistry, chromatography, kinetics and thermodynamics, various experimental techniques and mathematical and numerical information including the definitions, values and usage rules of the newly adopted International System of Units (SI Units). A section on statistical treatment of data which provides an actual least squares computer program is also included. In the spectroscopy chapter, very extensive and up to date collections of spectral correlation data are presented for IR, UV, VIS, optical rotation, NMR and mass spectra along with data on ESR and NQR spectroscopy. Also included is a variety of hard to classify but frequently sought information such as names and addresses of microanalysis companies and chemistry publishers, descriptions and commercial sources of atomic and molecular models and safety data for hazardous chemicals. More than 500 key references are also included, most of which are recent. There are important hints and definitions associated with the art as well as the state of the art for the appropriate subjects. Also found throughout the book are about 250 suppliers and directions for obtaining special booklets or other material. Containing a wealth of useful information, *The Chemist's Companion* will be an indispensable guide for students and professional chemists in nearly all the chemical disciplines. In addition, it will provide for the teacher and student an unusual adjunct for use in a broad cross section of chemistry courses. **Biogeochemistry of Ancient and Modern**

Environments P. A. Trudinger, M. R. Walter, B. J. Ralph, 2013-06-29. This volume contains a selection of papers presented to the Fourth International Symposium on Environmental Biogeochemistry (ISEB) and a conference on Biogeochemistry in Relation to Mining Industry and Environmental Pollution Leaching Conference held in Canberra, Australia on August 26-31 and September 3-4, 1979 respectively. The ISEB were established to provide a forum for uninhibited exchange of information and ideas among the biological, chemical, atmospheric and geological scientists working in the common area of

biogeochemistry encompassing soil and other earth sciences as well as the hydrosphere and atmosphere By linking the fourth ISEB with the Leachin Conference the scope of discussions was extended to encompass the application of biogeochemical processes to the mining industry This wide ranging philosophy is reflected in the breadth and diversity of the subjects covered in this book The published papers are expanded versions of those presented at the meetings They have all been scrutinized by at least one referee in addition to the editors About 20% of the contributions to the meetings are not included either because authors did not wish to publish or because the papers were not accepted by the editors **Library Journal** ,1971-10

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