

Gordon W. Gribble
Editor

Natural Production of Organohalogen Compounds

The Handbook of
Environmental Chemistry

3 · P



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Natural Production Of Organohalogen Compounds

Marco Cascella

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Natural Production Of Organohalogen Compounds:

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Natural Production of Organohalogen Compounds Gordon W. Gribble, 2003-04-30 This book summarizes the state of the art knowledge on naturally occurring organohalogens of which more than 3700 are documented The chapters cover all aspects of this field including the structural diversity and sources of organohalogens the mechanisms for their formation and biodegradation the clinical use of dichloroacetate and the synthesis of the powerful anticancer chlorine containing cryptophycin Both biogenic and abiogenic sources of organohalogens are treated the latter of which include volcanic emissions and abiogenic formation in soil Halogenation in humans fungi and in the ocean are covered in separate chapters Sources and biosynthesis of the relatively rare natural organofluorines are also discussed in this volume By better understanding of the role nature plays in the area of organohalogens we can more intelligently regulate the production use and disposal of man made organohalogen compounds

Naturally Occurring Organohalogen Compounds - A Comprehensive Update Gordon W. Gribble, 2009-12-02 Despite the long association of organohalogen compounds with human activities nature is the producer of nearly 5 000 halogen containing chemicals Once dismissed as accidents of nature or isolation artifacts organohalogen compounds represent an important and ever growing class of natural products in many cases exhibiting exceptional biological activity Since the last comprehensive review in 1996 Vol 68 this series there have been discovered an additional 2 500 organochlorine organobromine and other organohalogen compounds These natural organohalogens are biosynthesized by bacteria fungi lichen plants marine organisms of all types insects and higher animals including humans These compounds are also formed abiogenically as in volcanoes forest fires and other geothermal events In some instances natural organohalogens are precisely the same chemicals that man synthesizes for industrial use and some of the quantities of these natural chemicals far exceed the quantities emitted by man

Naturally-Produced Organohalogens Anders Grimvall, Ed W.B. de Leer, 2012-12-06 Should the production and use of chlorine and all chlorinated organic compounds be halted in view of their adverse effects on the environment and human health Those in favour argue that certain chlorinated compounds PCBs DDT CFCs etc have large negative environmental

effects The use of chlorine in disinfectants leads to the production of chloroform while bulk products PVC contribute to the production of chlorinated dibenzo p dioxins and dibenzofurans when they are burned Those against argue that chlorine and many chlorinated compounds are essential in the control of human health the prevention of disease transmitted through drinking water that has not been disinfected and that chlorinated compounds are indispensable intermediates in many production processes representing a vast economic value But such discussions often ignore the fact that Nature contributes significantly to the production of chlorinated organic compounds More than 1000 such compounds are known and their contribution to the biogeochemical cycling of chlorine is underestimated Chlorine is organically bound in large quantities to humic materials and natural production mechanisms are known for low molecular weight compounds methyl chloride chloroform chlorinated dibenzo p dioxins and dibenzofurans The role of these compounds in the environment is largely unknown Naturally Produced Organohalogens gives a complete overview of the present state of knowledge on the subject giving a much needed balance to the argument sketched out above *Naturally Occurring Organohalogen Compounds* A. Douglas Kinghorn, Heinz Falk, Simon Gibbons, Yoshinori Asakawa, Ji-Kai Liu, Verena M. Dirsch, 2023-07-24 The present volume is the third in a trilogy that documents naturally occurring organohalogen compounds bringing the total number from fewer than 25 in 1968 to approximately 8 000 compounds to date Nearly all of these natural products contain chlorine or bromine with a few containing iodine and fewer still fluorine Produced by ubiquitous marine algae sponges corals bryozoa nudibranchs fungi bacteria and terrestrial organisms plants fungi bacteria insects higher animals and universal abiotic processes volcanos forest fires geothermal events organohalogens pervade the global ecosystem Newly identified extraterrestrial sources are also documented In addition to chemical structures biological activity biohalogenation biodegradation natural function and future outlook are presented *Progress in the Chemistry of Organic Natural Products*, 2012-12-06 The objective of this ASI was to bring together specialists in several complex variables many of whom have contributed to complex potential theory and specialists in potential theory all of whom have contributed to several complex variables together with young researchers and graduate students for an interchange of ideas and techniques Not only was the status of current research presented but also the relevant background much of which is not yet available in books The following topics and interconnections among them were discussed 1 Real and Complex Potential Theory Capacity and approximation basic properties of plurisubharmonic functions and methods to manipulate their singularities and study their growth Green functions Chebyshev type quadratures electrostatic fields and potentials propagation of smallness 2 Complex Dynamics Review of complex dynamics in one variable Julia sets Fatou sets background in several variables Henon maps ergodicity use of potential theory and multifunctions 3 Banach Algebras and Infinite Dimensional Holomorphy Analytic multifunctions spectral theory analytic functions on a Banach space semigroups of holomorphic isometries Pick interpolation on uniform algebras and Von Neumann inequalities for operators on a Hilbert space The basic notion of complex potential

theory is that of a plurisubharmonic function *Anthropogenic Compounds*, 2003 **Organohalide-Respiring Bacteria**

Lorenz Adrian, Frank E. Löffler, 2016-08-03 This book summarizes the current state of knowledge concerning bacteria that use halogenated organic compounds as respiratory electron acceptors The discovery of organohalide respiring bacteria has expanded the range of electron acceptors used for energy conservation and serves as a prime example of how scientific discoveries are enabling innovative engineering solutions that have transformed remediation practice Individual chapters provide in depth background information on the discovery isolation phylogeny biochemistry genomic features and ecology of individual organohalide respiring genera including Dehalococcoides Dehalogenimonas Dehalobacter Desulfitobacterium and Sulfurospirillum as well as organohalide respiring members of the Deltaproteobacteria The book introduces readers to the fascinating biology of organohalide respiring bacteria offering a valuable resource for students engineers and practitioners alike

Contaminated Soil'93 F. Arendt, G.J. Annokkée, R. Bosman, W.J. van den Brink, 2012-12-06 F Arendt XxX Conference chairman w Harder TNO Conference co chairman The 1993 Berlin conference on contaminated sites is the fourth in a series of meetings initiated by the Netherlands Organization of Applied Scientific Research TNO in 1985 and later continued with the Karlsruhe Nuclear Research center KfK of Germany The present economic stagnation or recession in many countries is leading to various proposals to reduce the level of costly environmental activities restricted funds are used for really urgent cases rather than precautionary measures The level of soil contamination caused by the former centrally planned economies adds to this tendency The Conference tries to broach this controversy by discussing once more the targets and strategies of soil remediation with follow up use of the site as an important parameter Both new regulations and modifications of existing lists for a tolerable level of contamination are reviewed alike Immobilization and enclosure of pollutants are often less expensive than complete remediation and consequently may grow in significance We consider the conference of great significance for demonstrating the experiences gained with management and remediation of contaminated sites internationally among others to avoid mistakes and excessive costs Two new types of soil contamination became apparent after the end of the cold war Many military sites airfields and training grounds are being abandoned After decades of use large sections and hot spots of these sites are polluted to a high average level

Progress in the Chemistry of Organic Natural Products 100 A. D. Kinghorn, H. Falk, J. Kobayashi, 2014-11-17 The volumes of this classic series now referred to simply as Zechmeister after its founder L Zechmeister have appeared under the Springer Imprint ever since the series inauguration in 1938 It is therefore not really surprising to find out that the list of contributing authors who were awarded a Nobel Prize is quite long Kurt Alder Derek H R Barton George Wells Beadle Dorothy Crowfoot Hodgkin Otto Diels Hans von Euler Chelpin Paul Karrer Luis Federico Leloir Linus Pauling Vladimir Prelog with Walter Norman Haworth and Adolf F J Butenandt serving as members of the editorial board The volumes contain contributions on various topics related to the origin distribution chemistry synthesis biochemistry function or use of various classes of naturally occurring substances

ranging from small molecules to biopolymers Each contribution is written by a recognized authority in his field and provides a comprehensive and up to date review of the topic in question Addressed to biologists technologists and chemists alike the series can be used by the expert as a source of information and literature citations and by the non expert as a means of orientation in a rapidly developing discipline

The book delves into Natural Production Of Organohalogen Compounds. Natural Production Of Organohalogen Compounds is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Natural Production Of Organohalogen Compounds, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Natural Production Of Organohalogen Compounds
- Chapter 2: Essential Elements of Natural Production Of Organohalogen Compounds
- Chapter 3: Natural Production Of Organohalogen Compounds in Everyday Life
- Chapter 4: Natural Production Of Organohalogen Compounds in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Natural Production Of Organohalogen Compounds. The first chapter will explore what Natural Production Of Organohalogen Compounds is, why Natural Production Of Organohalogen Compounds is vital, and how to effectively learn about Natural Production Of Organohalogen Compounds.
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6. In chapter 5, this book will draw a conclusion about Natural Production Of Organohalogen Compounds. The final chapter will summarize the key points that have been discussed throughout the book.
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