

Hong-Wu He · Hao Peng
Xiao-Song Tan

Environmentally Friendly Alkylphosphonate Herbicides



Chemical Industry Press



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Environmentally Friendly Alkylphosphonate Herbicides

**Alexey Beskopylny, Mark
Shamtsyan, Viktor Artiukh**



Environmentally Friendly Alkylphosphonate Herbicides:

Environmentally Friendly Alkylphosphonate Herbicides Hong-Wu He, Hao Peng, Xiao-Song Tan, 2014-11-04 This book presents essential research on a class of environmentally friendly alkylphosphonate herbicides This class of herbicides acted as a competitive inhibitor of the pyruvate dehydrogenase complex PDHc to control weeds The bioreasoning and systematic approach from basic research to field tests of candidate compounds are introduced The basic research covers the molecular design chemical synthesis biological activities evaluation structure activity relationship analysis and structural optimization Subsequently the book reviews the biochemistry of PDHc inhibitors the selectivity between mammals and plants and the mechanism of herbicidal activity of novel alkylphosphonates as selective PDHc inhibitors Field trials for selected alkylphosphonate candidates as herbicides are also included This book provides a sound basis for the rational design and development of novel herbicides as effective PDHc inhibitors with good enzyme selective inhibition of plant PDHc between mammals and plants These studies take full advantages of the low toxicity and low residual impact of selective PHDc inhibitors to design an effective and environmentally friendly herbicide This book is based on twenty years of research on alkylphosphonates and phosphorus containing PDHc inhibitors and demonstrates how to develop these PDHc inhibitors as an effective and green herbicide candidate Hong Wu He PhD is a Professor at the Key Laboratory of Pesticide Chemical Biology Ministry of Education of China and Director of the Institute of Pesticide Chemistry College of Chemistry Central China Normal University China Hao Peng PhD and Xiao Song Tan are both Associate Professors at the Key Laboratory of Pesticide Chemical Biology Ministry of Education of China College of Chemistry Central China Normal University China **XV**

International Scientific Conference "INTERAGROMASH 2022" Alexey Beskopylny, Mark Shamtsyan, Viktor Artiukh, 2023-02-24 The book contains proceedings of the XV International Scientific Conference INTERAGROMASH 2022 Rostov on Don Russia This conference is dedicated to the innovations in the field of precision agriculture robotics and machines as well as agriculture biotechnologies and soil management It is a collection of original and fundamental research in such areas as follows unmanned aerial systems satellite based applications proximal and remote sensing of soil and crop positioning systems geostatistics mapping and spatial data analysis robotics and automation Potential and prospects for the use of hydrogen in agriculture for example in high performance tractors with hybrid electric transmission are disclosed in the research works of scientists from all over the world It also includes such topics as precision horticulture precision crop protection differential harvest precision livestock farming controlling environment in animal husbandry and other topics One of the important issues raised in the book is to ensure the autonomy of local farms The topic of the impact of the agro industrial sector on the environment also received wide coverage Ways to reduce the burden on the environment are proposed and the use of alternative fuels and fertilizers is suggested The research results presented in this book cover the experience and the latest studies on the sustainable functioning of agribusiness in several climatic zones The tundra and

taiga forest steppe the steppe and semi desert all this is a unique and incredibly demanded bank of information the main value of which is the real experience of the functioning of agribusiness in difficult climatic and geographic conditions These materials are of interest for professionals and practitioners for researchers scholars and producers They are used in the educational process at specific agricultural universities or during vocational training at enterprises and also become an indispensable helper to farm managers in making the best agronomic decisions Recent Highlights in the Discovery and Optimization of Crop Protection Products Peter Maienfisch, Ir. Sven Mangelinckx, 2021-03-24 Recent Highlights in the Discovery and Optimization of Crop Protection Products highlights the most prominent recent results in the search for safe and effective new crop protection products With a focus on the design synthesis optimization and or structure activity relationships of new chemistries targeting insect disease weed nematode vector and animal parasite control the book also includes recent developments in crop enhancement chemistries and new approaches to crop protection products The inclusion of information on testing tools green chemistry approaches and the latest discovery tools like modeling structure based design and testing tools makes this volume complete Based on key presentations given at the 14th International IUPAC conference on Crop Protection May 19 24 2019 in Ghent Belgium this book includes the many exciting new discoveries and findings reported It is designed to inspire additional research and advancement in the field Based on science presented at the 2019 International Union of Pure and Applied Chemistry Conference on Crop Protection Provides real world perspectives on pesticide and disease control progress Presents scientific developments from an international array of contributing authors

Herbicides Mohammed Nagib Hasaneen, 2011-12-22 This volume contains two sections Mechanisms of herbicidal action chapters 1 4 and Mode of action of selected herbicides on controlling diseased weed growth and productivity and or growth and development of field crops chapters 5 10 Topics by chapters are molecular mechanism of action immunosensors laboratory studies molecular modeling weed resistance community response use of herbicides in biotech culture gene flow herbicides and risk herbicides persistence These recurring themes reinforce my view held over a very long time that experience with one crop or problem can sometimes be relevant often to an unexpected extent to an apparently dissimilar situation in a different crop I hope that readers interested in herbicides and pesticides will be satisfied with all the chapters in the book as its content might be of interest and value to them in the future *Green Technologies and Environmental Sustainability* Ritu Singh, Sanjeev Kumar, 2017-04-05 In the present scenario green technologies are playing significant role in changing the course of nation s economic growth towards sustainability and providing an alternative socio economic model that will enable present and future generations to live in a clean and healthy environment in harmony with nature Green technology which is also known as clean technology refers to the development and extension of processes practices and applications that improve or replace the existing technologies facilitating society to meet their own needs while substantially decreasing the impact of human on the planet and reducing environmental risks and ecological scarcities The concepts of

Green Technologies if endorsed and pervaded into the lives of all societies will facilitate the aim of the Millennium Development Goals of keeping the environment intact and improve it for the civilization to survive Green Technologies and Environmental Sustainability is focused on the goals of green technologies which are becoming increasingly important for ensuring sustainability This book provides different perspectives of green technology in sectors like energy agriculture waste management and economics and contains recent advancements made towards sustainable development in the field of bioenergy nanotechnology green chemistry bioremediation degraded land reclamation This book is written for a large and broad readership including researchers scientists academicians and readers from diverse backgrounds across various fields such as nanotechnology chemistry agriculture environmental science water engineering waste management and energy It could also serve as a reference book for graduates and post graduate students faculties environmentalist and industrial personnel who are working in the area of green technologies War and Environment Wendy Barnaby,1981

Organophosphorus Chemistry 2018 György Keglevich,2020-03-05 Organophosphorus chemistry is an important discipline within organic chemistry Phosphorus compounds such as phosphines trialkyl phosphites phosphine oxides chalcogenides phosphonates phosphinates and P O H species etc may be important starting materials or intermediates in syntheses Let us mention the Wittig reaction and the related transformations the Arbuzov and the Pudovik reactions the Kabachnik Fields condensation the Hirao reaction the Mitsunobu reaction etc Other reactions e g homogeneous catalytic transformations or C C coupling reactions involve P ligands in transition metal Pt Pd etc complex catalysts The synthesis of chiral organophosphorus compounds means a continuous challenge Methods have been elaborated for the resolution of tertiary phosphine oxides and for stereoselective organophosphorus transformations P heterocyclic compounds including aromatic and bridged derivatives P functionalized macrocycles dendrimers and low coordinated P fragments are also of interest An important segment of organophosphorus chemistry is the pool of biologically active compounds that are searched and used as drugs or as plant protecting agents The natural analogue of P compounds may also be mentioned Many new phosphine oxides phosphinates phosphonates and phosphoric esters have been described which may find application on a broad scale Phase transfer catalysis ionic liquids and detergents also have connections to phosphorus chemistry Green chemical aspects of organophosphorus chemistry e g microwave assisted syntheses solvent free accomplishments optimizations and atom efficient syntheses represent a dynamically developing field Last but not least theoretical approaches and computational chemistry are also a strong sub discipline within organophosphorus chemistry Environmental Toxicology and Chemistry ,1999 Applied and Environmental Microbiology ,1998 **Bibliography of Agriculture** ,1980

Bibliography of Agriculture with Subject Index ,1980 **Biochemistry** ,2002 **Environmental Chemistry of Herbicides** Raj Grover,Allan Cessna,1990-11-21 This publication is rare among those texts on pesticides in that it covers herbicides exclusively It presents in one source information that is typically scattered This important publication enables the

reader to recommend herbicide use more reliably and efficiently It also highlights environmental issues relevant to herbicide use in agriculture The book outlines potential areas of further research This title is of particular value to weed scientists environmental chemists and engineers soil scientists and those responsible for recommending and or regulating use of herbicides in agriculture Focuses On Increasing efficiency of herbicides in agriculture Decreasing environmental contamination with herbicides Dissipation and transformations in water and sediment Nature transport and fate of airborne residues Absorption and transport in plants Transformations in biosphere Bioaccumulation and food chain accumulation Photochemical transformations Bound residues Predictability and environmental chemistry **Environmental Chemistry of Herbicides** Raj Grover, Allan Cessna, 2024-11-15 This publication is rare among those texts on pesticides in that it covers herbicides exclusively It presents in one source information that is typically scattered This important publication enables the reader to recommend herbicide use more reliably and efficiently It also highlights environmental issues relevant to herbicide use in agriculture The book outlines potential areas of further research This title is of particular value to weed scientists environmental chemists and engineers soil scientists and those responsible for recommending and or regulating use of herbicides in agriculture Focuses On Increasing efficiency of herbicides in agriculture Decreasing environmental contamination with herbicides Dissipation and transformations in water and sediment Nature transport and fate of airborne residues Absorption and transport in plants Transformations in biosphere Bioaccumulation and food chain accumulation Photochemical transformations Bound residues Predictability and environmental chemistry Herbicide Report United States. Environmental Protection Agency. Hazardous Materials Advisory Committee, 1974 *Environmental Chemistry of Herbicides* Raj Grover, 1991 Herbicides , 2021-06-23 Herbicides Chemistry Efficacy Toxicology and Environmental Impacts addresses contemporary debates on herbicide toxicology The reader is offered a comprehensive overview of this complex topic presented by internationally recognized experts Information presented will inform discussions on the use of herbicides in modern agricultural and other systems and their potential non target effects on human populations and various ecosystems The book covers these matters in concise language appropriate to engage both specialists in the research community and informed persons responsible for legislative funding and public health matters in the community at large The use of herbicides is an essential pillar of modern agricultural production systems Weeds if uncontrolled would reduce crop yield and result in massive economic damage Recently the heavy reliance on single herbicides has been linked to the development of weed resistance To combat resistant weeds farmers are advised to use a mix of several herbicides and to increase herbicide application rates As a result the toxicity of herbicides on human health and the environment has become a controversial topic Offers a comprehensive overview of herbicide science in modern agricultural systems Addresses the complex problems that can arise from herbicide use and misuse including weed resistance pollution and human health issues Uses recent examples to demonstrate the topical nature of this issue **Herbicides and Environment** Andreas

Kortekamp, 2011-01-08 Herbicides are much more than just weed killers. They may exhibit beneficial or adverse effects on other organisms. Given their toxicological, environmental, but also agricultural relevance, herbicides are an interesting field of activity not only for scientists working in the field of agriculture. It seems that the investigation of herbicide-induced effects on weeds, crop plants, ecosystems, microorganisms, and higher organisms requires a multidisciplinary approach. Some important aspects regarding the multisided impacts of herbicides on the living world are highlighted in this book. I am sure that the readers will find a lot of helpful information even if they are only slightly interested in the topic. **Herbicides Chemistry**

Kearney, 1988-05-27 Conveniently gathering up to date information on herbicides, chemistry, degradation, and mode of action in one source, this reference discusses glyphosate and the traits that have made it so successful, investigates the adsorption of polycyclic alkanoic acids ester into targeted plants, documents sulfonylureas selectivity, environmental compatibility, groundwater safety, and low use rate. Explains metribuzin's combination with other herbicides to increase weed control for soybeans, potatoes, and tomatoes, and examines alachlor and metolachlor for controlling annual grasses, broadleaf weeds, yellow nutsedge in corn, soybeans, and many other crops. Extensively referenced and illustrated. **Herbicides Volume 3** is an outstanding reference for soil scientists, agronomists, microbiologists, biochemists, agricultural chemists, botanists, environmental scientists, and plant nutritionists and pathologists. Book jacket **Environmental Chemistry of Herbicides**, 1991

This book delves into Environmentally Friendly Alkylphosphonate Herbicides. Environmentally Friendly Alkylphosphonate Herbicides is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Environmentally Friendly Alkylphosphonate Herbicides, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Environmentally Friendly Alkylphosphonate Herbicides
 - Chapter 2: Essential Elements of Environmentally Friendly Alkylphosphonate Herbicides
 - Chapter 3: Environmentally Friendly Alkylphosphonate Herbicides in Everyday Life
 - Chapter 4: Environmentally Friendly Alkylphosphonate Herbicides in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Environmentally Friendly Alkylphosphonate Herbicides. The first chapter will explore what Environmentally Friendly Alkylphosphonate Herbicides is, why Environmentally Friendly Alkylphosphonate Herbicides is vital, and how to effectively learn about Environmentally Friendly Alkylphosphonate Herbicides.
 3. In chapter 2, this book will delve into the foundational concepts of Environmentally Friendly Alkylphosphonate Herbicides. The second chapter will elucidate the essential principles that must be understood to grasp Environmentally Friendly Alkylphosphonate Herbicides in its entirety.
 4. In chapter 3, this book will examine the practical applications of Environmentally Friendly Alkylphosphonate Herbicides in daily life. The third chapter will showcase real-world examples of how Environmentally Friendly Alkylphosphonate Herbicides can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Environmentally Friendly Alkylphosphonate Herbicides in specific contexts. This chapter will explore how Environmentally Friendly Alkylphosphonate Herbicides is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Environmentally Friendly Alkylphosphonate Herbicides. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Environmentally Friendly Alkylphosphonate Herbicides.

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