

CS Publications News

Organophosphorus Chemistry Vol. 8

Senior Reporter: Professor S. Trippett
University of Leicester

The eighth volume in this highly successful series covers literature published between July 1975 and June 1976. It follows a very similar format to that adopted in previous volumes.

"This series of annually updated 'Reports' is a valuable addition to the desk library of the chemist practising organophosphorus chemistry by providing a systematic and fairly comprehensive review of a year's development at reasonable cost and in reasonable size."—*Kurt Moedritzer, Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry reviewing Vol. 5*

Clothbound 301 pp 8 $\frac{3}{4}$ " × 5 $\frac{5}{8}$ " £22.00 (CS Members £16.50)

Aliphatic Chemistry Vol. 5

Senior Reporter: Dr. A. McKillop
University of East Anglia

This fifth volume covers the literature published during 1975 following a similar format to that adopted in previous volumes.

"Most welcome as it covers the literature in aliphatic chemistry with the same high standards of previous volumes. It is not merely a brief and superficial review of aliphatic chemistry but each of the chapters is replete with equations, structural formulas, and—of tremendous importance—reaction mechanistic pathways. Each of the reviewers has done an outstanding job in presenting the materials succinctly and clearly, but A. McKillop, as senior reporter, deserves special credit and commendation for the overall organization and high quality."—*Daniel Swern, Journal of the American Oil Chemists' Society reviewing Vol. 3*

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Hazards in the Chemical Laboratory 2nd Edition

Edited by G. D. Muir

In the five years since the first edition was published, *Hazards in the Chemical Laboratory* has become established as a vital handbook in all types of laboratory environment. However, over this period many developments have taken place which justify changes in scope and emphasis.

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Carbohydrate Chemistry Vol. 9

Senior Reporter: Professor J. S. Brimacombe
University of Dundee

This ninth volume covers literature published during 1975.

It is again divided into two parts dealing with (i) the chemistry of mono-, di-, and tri-saccharides and their derivatives, and (ii) the structure and physical and biological properties of carbohydrate macromolecules.

"As in the past the reporters have done an excellent job in compiling this concise but very useful volume. The referee recommends this edition to all interested in carbohydrate literature."—*T. L. Nagabhushan, Journal of the American Chemical Society reviewing Vol. 7*

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Alicyclic Chemistry Vol. 5

Senior Reporter: Professor W. Parker
University of Stirling

The fifth volume is based, as before, on ring size division and it covers literature published during 1975.

"All of the chapters give concise, well-written summaries of the syntheses and reactions within these areas including selected but pertinent discussions of mechanisms. The considerable effort which the authors have invested in this volume will benefit all organic chemists."—*David S. Watt, Journal of the American Chemical Society reviewing Vol. 3*

"The extent of the coverage, and the high standard of reporting and reviewing of the literature, established in the previous volumes is fully maintained by the present contributors."—*R. M. Ellam, Chemistry and Industry reviewing Vol. 3*

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Senior Reporter: Dr. D. E. Hathway

This fourth volume is divided into four sections: drug kinetics biotransformations, mechanisms of biotransformation, and species strain and sex differences in metabolism. It covers literature published during 1974 and 1975.

The volume is essential reading for those who are concerned with the action and metabolism, not only of drugs, but also of herbicides, pesticides, antioxidants, cosmetics, plasticisers and food additives.

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SPECIALIST PERIODICAL REPORTS

The Alkaloids Vol. 7

Senior Reporter: Professor M. F. Grundon
New University of Ulster, Coleraine

Volume 7 continues the same general format adopted for previous volumes and reviews literature published between July 1975 and June 1976.

Brief contents

Biosynthesis; Pyrrolidine, Piperidine, and Pyridine Alkaloids; Tropane Alkaloids; The Pyrrolizidine Alkaloids; Indolizidine Alkaloids; The Quinolizidine Alkaloids; Quinoline and Acridone Alkaloids; β -Phenethylamines and the Isoquinoline Alkaloids; The Aporphinoids; Amaryllidaceae and Related Alkaloids; *Erythrina* and Related Alkaloids; Indole Alkaloids; Diterpenoid Alkaloids; Steroidal Alkaloids of the Apocynaceae and Buxaceae and Related Compounds; *Solanum* and *Veratrum* Steroidal Alkaloids; Miscellaneous Alkaloids.

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Photochemistry Vol. 8

Senior Reporter: Professor D. Bryce Smith
University of Reading

Volume 8 repeats the successful format adopted for previous volumes and for the first time coverage is included of the chemical aspects of photobiology. It covers the period July 1975 to June 1976 with exception of the chapter on developments in instrumentation and techniques, which covers a two-year period.

"These volumes provide thorough accurate and readable reviews in most areas of interest in photochemistry."—*Richard A. Caldwell, Photochemistry and Photobiology reviewing Vols. 4 and 5*

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Catalysis Vol. 1

Senior Reporter: Professor C. Kemball
University of Edinburgh

This volume is the first in a new annual series of reports which will include aspects of homogeneous catalysis as well as covering heterogeneous catalysis in breadth and depth. While the main emphasis will be on the progress in fundamental research, applied and industrial aspects will also be included. No attempt will be made to provide a comprehensive coverage of the field of biochemical catalysis.

Brief contents

Catalysis on Well-defined Metal Surfaces and Non-metallic Substrates; Reactions of Hydrocarbons on Alloy and Bimetallic Catalysis; Catalysis on Faujasitic Zeolites; Catalytic Properties of Aluminas for Reactions of Hydrocarbons and Alcohols; Selective Oxidation of Hydrocarbons Over Mixed Oxide Catalysts; Reactions on Sulphide Catalysts; Ziegler Polymerization; Olefin Metathesis; The Homogeneous Catalytic Activation of C-H Bonds; Homogeneous Catalysis involving Carbon Monoxide.

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Aromatic and Heteroaromatic Chemistry Vol. 5

Senior Reporters:
Dr. C. W. Bird and Dr. G. W. H. Cheeseman
Queen Elizabeth College, University of London

This fifth volume is based on Volumes 83 and 84 of *Chemical Abstracts* following a similar format to that adopted in previous volumes. It covers the period July 1975 to June 1976.

"Despite the flood of relevant publications the reporters have succeeded in writing well organised, coherent accounts, rather than mere catalogues."—*Journal of Molecular Structure reviewing Vol. 4*

Brief contents

Ring Systems of Topical Interest; Intermolecular and Intramolecular Cyclization Reactions in Ring Synthesis; Cycloaddition Reactions; Ring Transformations; Electrophilic Substitution on Carbon; Electrophilic Substitution on Heteroatoms; Nucleophilic Substitution; Aromatic Substitution by Free Radicals, Carbenes, and Nitrenes; Addition Reactions; Ring-cleavage Reactions; Reactions of Substituents; Porphyrins and Related Compounds; Naturally Occurring Oxygen-ring Compounds; Other Naturally Occurring Compounds.

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Organic Compounds of Sulphur, Selenium, and Tellurium Vol. 4

Senior Reporter: Dr. D. R. Hogg
University of Aberdeen

The general format and coverage of this fourth volume follow that used in previous volumes and generally include material published in the period from April 1974 to March 1976.

Brief contents

Aliphatic Organo-sulphur Compounds, Compounds with Exocyclic Sulphur Functional Groups, and their Selenium and Tellurium Analogues; Ylides of Sulphur, Selenium, and Tellurium, and Related Structures; Thiocarbonyl and Selenocarbonyl Compounds; Small Ring Compounds of Sulphur and Selenium; Saturated Cyclic Compounds of Sulphur and Selenium; Thiophenes and their Selenium and Tellurium Analogues; 6a-Thiathiophthens and Related Compounds; 1,2- and 1,3-Dithioles; Thiopyrans and Related Compounds; Thiopins and Dithiins; Isothiazoles and Related Compounds; Thiazoles and Related Compounds; Consensed Ring Systems Incorporating Thiazole; Thiadiazoles and Selenadiazoles; Thiazines; β -Lactam Antibiotics, other Sulphur-containing Natural Products, and Related Compounds.

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