ROYAL SOCIETY OF CHEMISTRY

BIOTRANSFORMATIONS:

A survey of the Biotransformations of Drugs and Chemicals in Animals Volume 1

Edited by David R. Hawkins, Huntingdon Research Centre



The series has been devised to provide an up-to-date survey of the literature on the biotransformation of pharmaceuticals, pesticides, food additives, and environmental and industrial chemicals in animals. The objective is to provide a comprehensive database which will allow an increased awareness of patterns in species differences and the influence of chemical structure on biotransformation pathways. The ability to predict biotransformation is the ultimate goal which could contribute to the discovery and development of new products. The material has been collated into chemical classes but an additional feature is the definition and allocation of key functional groups for each compound. The functional groups selected are those commonly associated with biotransformation. Indexing these functional groups provides ready access to reports on compounds containing common structural features. An additional index of biotransformation processes and

compound names further increases the accessibility of relevant information.

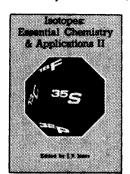
Contents

Key Functional Groups; An Overview; Hydrocarbons: Aliphatic, Aromatic (Monocyclic/Bicyclic); Polycyclic Aromatic Hydrocarbons: Unsubstituted, Hydroxylated Derivatives, Substituted; Alkenes, Halogenoalkanes, and Halogenoalkenes: Alkenes (Epoxides), Halogenoalkanes, Halogenoalkenes; Acyclic Functional Compounds; Substituted Monocyclic Aromatic Compounds: Halogenoaryl, Phenols, Nitroaryl/Nitrophenols, Carboxylic Acids/Esters, Ketones, Aryl Amines, Benzhydryls, Arylalkylamines; Miscellaneous Aromatics; Heterocycles: Monocyclic Five-membered, Monocyclic Six-membered, Monocyclic Seven-membered, Bicyclic/Tricyclic; Functional Nitrogen Compounds; Nitrosamines; Amino Acids and Peptides; Steroids; Miscellaneous: Inorganic and Organometallic, Pyrethroids, Organophosphorus Compounds, Sulphur Compounds; Compound Index; Key Functional Group Index; Reaction Type Index

ISBN 0 85186 157 1 Hardcover 511 pages February 1989 Price £75.00 (\$150.00)

ISOTOPES: ESSENTIAL CHEMISTRY AND APPLICATIONS II

Edited by J. R. Jones, University of Surrey



In the years that have elapsed since the RSC published *Isotopes: Essential Chemistry and Applications* in 1980 there have been many changes and developments which warrant publication of this edition. This book covers the synthesis of a wide range of isotopically labelled compounds, the analytical methods used and many important applications.

Contents:

Organic Synthesis with Short-lived Positron-emitting Radioisotopes; Radioiodination Techniques; The Radiochromatography of Labelled Compounds; Modern Spectrometric Methods for the Analysis of Labelled Compounds; Localization and Quantitation of Radioactivity in Solid Specimens Using Autoradiography; Isotope Shifts in NMR Spectroscopy — Measurement and Applications; The Use of Stable

Isotopes in Medicinal Chemistry; Radiopharmaceuticals; Isotopes in Molecular Biology; Industrial Applications of Radioisotopes.

ISBN 0 85186 746 4 Softcover 272 pages Special Publication No. 68 (1988) Price £39.50 (\$79.00)



Information Services For further information, please write to: Royal Society of Chemistry, Sales and Promotion department, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 4WF. U.K. To Order, please write to:
Royal Society of Chemistry, Distribution
Centre, Blackhorse Road, Letchworth,
Herts SG6 1HN. U.K.
or telephone (0462) 672555 quoting
your credit card details.
We can now accept Access/Visa/
MasterCard/Eurocard.

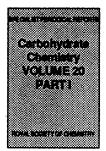
RSC Members are entitled to a discount on most RSC publications and should write to:
The Membership Manager,
Royal Society of Chemistry,
Thomas Graham House,
Science Park, Milton Road,
Cambridge CB4 4WF. U.K.

ROYAL SOCIETY OF CHEMISTRY

CARBOHYDRATE CHEMISTRY

Vol. 20 Part, I

Senior Reporter: Neil R. Williams, Birkbeck College, University of London



Since Volume 14 Carbohydrate Chemistry has been divided into two parts: Part I – Mono-, Di-, and Tri-saccharides and their derivatives, Part 2 – Macromolecules.

From Volume 19, Part I was renamed: Monosaccharides, Disaccharides, and Specific Oligosaccharides.

Carbohydrate Chemistry Volume 20 (Part I) provides a review of the literature published during 1986.

Brief Contents:

Introduction and General Aspects; Free Sugars; Glycosides and Disaccharides; Oligosaccharides; Ethers and Anhydro-sugars; Acetals; Esters; Halogeno-sugars; Amino-sugars; Miscellaneous Nitrogen Derivatives; Thio-Sugars; Deoxy-sugars; Unsaturated Derivatives; Branched-chain Sugars; Aldosuloses, Dialdoses, and Diuloses; Sugar Acids and Lactones; Inorganic Derivatives; Alditols and Cyclitols; Antibiotics; Nucleosides; NMR Spectroscopy and Conformational Features; Other Physical Methods; Separatory and Analytical Methods; Synthesis of Enantiomerically Pure Non-carbohydrate Compounds; Author Index.

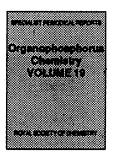
ISBN 0 85186 242 X Hardcover 316pp Specialist Periodical Report (1988) Price £70.00 (\$147.00)

"This is a thoroughly professional, useful publication." – C. Edwin Weill, J. Am. Chem. Soc., reviewing Vol. 15 Part I.

ORGANOPHOSPHORUS CHEMISTRY

Val. 19

Senior Reporters: B. J. Walker, The Queen's University of Belfast and J. B. Hobbs, The City University, London



Organophosphorus Chemistry Volume 19 reviews the literature published between July 1986 and June 1987.

Brief Contents:

Phosphines and Phosphonium Salts; Pentaco-ordinated and Hexaco-ordinated Compounds; Phosphine Oxides and Related Compounds; Tervalent Phosphorus Acids; Quinquevalent Phosphorus Acids; Nucleotides and Nucleic Acids; Ylides and Related Compounds; Phosphazenes; Physical Methods; Author Index.

ISBN 0 85186 176 8 Hardcover 470pp

Specialist Periodical Report (1988)
Price £110.00 (\$220.00)



Information

For further Information, please write to: Royal Society of Chemistry, Sales and Promotion department, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 4WF, U.K. To Order, please write to:
Royal Society of Chemistry, Distribution
Centre, Blackhorse Road, Letchworth,
Herts SG6 1HN. U.K.
or telephone (0462) 672555 quoting
your credit card details.
We can now accept Access/Visa/
MasterCard/Eurocard.

RSC Members are entitled to a discount on most RSC publications and should write to:
The Membership Manager,
Royal Society of Chemistry,
Thomas Graham House,
Science Park, Milton Road,
Cambridge CB4 4WF. U.K.