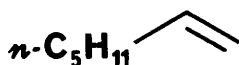


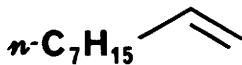


Of enes and dienes

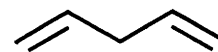
All of the compounds in our Catalog/Handbook are computer-coded, allowing us to retrieve quickly structures of greatest interest to our customers. Somewhat to our surprise such mundane compounds as alkenes and dienes are among the most requested by our customers. Obtain your free computer search by writing or calling our Technical Services Department.



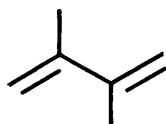
H320-8
1-Heptene, 99+%
25g \$14.75



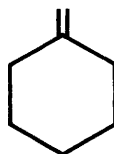
N3,040-4
1-Nonene, 99%
25g \$9.90; 100g \$32.90



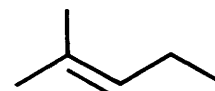
P460-7
1,4-Pentadiene, 99%
5g \$21.20



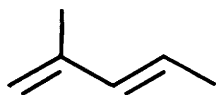
14,549-1
2,3-Dimethyl-1,3-butadiene, 98%
10g \$10.35; 50g \$35.90



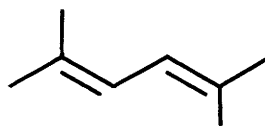
11,101-5
Methylenecyclohexane, 99+%
1g \$9.00; 5g \$27.30



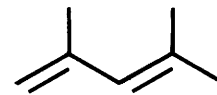
M6,730-3
2-Methyl-2-pentene, 99+%
25g \$24.10



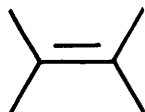
11,110-4
trans-2-Methyl-1,3-pentadiene, 99%
1g \$10.35; 5g \$35.00



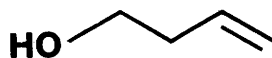
D16,100-4
2,5-Dimethyl-2,4-hexadiene, 99%
25g \$14.50; 100g \$38.45



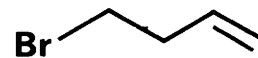
12,655-1
2,4-Dimethyl-1,3-pentadiene, 98%
5g \$12.50; 25g \$41.00



12,925-9
2,3-Dimethyl-2-butene, 98%
5g \$6.40; 25g \$21.40; 100g \$58.85
1kg \$321.00



11,036-1
3-Buten-1-ol, 99%
5g \$15.60; 10g \$28.90; 25g \$47.45



16,785-1
4-Bromo-1-butene, 99%
10g \$12.85; 50g \$42.80



chemists helping chemists in research & industry

aldrich chemical co.

P.O. Box 355, Milwaukee, Wisconsin 53201 • (414) 273-3850

Great Britain:
Aldrich Chemical Co., Ltd
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
England

Belgium/
Continental Europe:
Aldrich-Europe
B-2340 Beerse
Belgium

West Germany/
Continental Europe:
EGA-Chemie KG
7924 Steinheim am Albuch
West Germany

Japan:
Aldrich Japan
c/o Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo, Japan

Israel:
Sigma Israel Chemical Co.
P.O. Box 37673
Tel Aviv
Israel 61360

EDUCATION AIDS FROM THE ROYAL SOCIETY OF CHEMISTRY

Chemistry Cassettes & Formula Stencils

Chemistry Cassettes

General Editor: Peter Groves,
The University of Aston, Birmingham

The Royal Society of Chemistry Educational Techniques Subjects Group has produced a series of cassettes which will be of considerable benefit to the chemistry student. Chemistry Cassettes contain accounts of important topics given by leading authorities. Each cassette is supplemented by a workbook which contains diagrams, equations, examples and other material discussed by the lecturer and, in many cases, problem sections designed to stimulate thought and test the student's appreciation of the subject. Chemistry Cassettes enable the student to listen and learn at his own pace, wherever and whenever he pleases.

The following cassettes are currently available:

Heavy Metals as Contaminants of the Human Environment

By D. Bryce-Smith

Cassette and workbook 0 85186 979 3 £6.50 (\$15.50)
Additional workbooks—75p (\$1.75) or 10 for £5.00 (\$11.75)

Some Organic Reaction Pathways

by P. Sykes

Cassette and workbook 0 85186 999 8 £6.00 (\$14.00)
Additional workbooks—75p (\$1.75) or 10 for £5.00 (\$11.75)

Some Aspects of the Electrochemistry of Solutions

by G. Hills

Cassette and workbook 0 85186 989 0 £5.50 (\$12.50)
Additional workbooks—75p (\$1.75) or 10 for £5.00 (\$11.75)

Symmetry in Chemistry

by S. Kettle

2 cassettes and workbook 0 85186 729 4 £8.00 (\$19.00)
Additional workbooks—75p (\$1.75) or 10 for £5.00 (\$11.75)

An Introduction to NMR Spectroscopy

by B. Gilbert and R. Norman FRS

Cassette and workbook 0 85186 639 5 £7.00 (\$16.50)
Additional workbooks—£2.00 (\$4.75) or 10 for £15.00 (\$35.25)

Some Reaction Pathways of Double Bonds: $C=C$; $C=O$

by P. Sykes

Cassette and workbook 0 85186 629 8 £6.50 (\$15.50)
Additional workbooks—£1.00 (\$2.50) or 10 for £7.50 (\$17.75)

Reaction Pathways of Carboxylic Acid Derivatives

by P. Sykes

Cassette and workbook 0 85186 640 9 £6.50 (\$15.50)
Additional workbooks—£1.00 (\$2.50) 10 copies £7.50 (\$17.75)

Ionic Crystals

by R. B. Heslop

Cassette and workbook 0 85186 770 7 £6.50 (\$15.50)
Additional workbooks—£1.00 (\$2.50) or 10 for £7.50 (\$17.75)

Radicals and their Reaction Pathways

by P. Sykes

Cassette and workbook 0 85186 890 8 £6.50 (\$15.50)
Additional workbooks—£1.00 (\$2.50) 10 copies £7.50 (\$17.75)

Formula Stencils

Formula Stencil II—Stereochemistry

The "Formula Stencil II—Stereochemistry" permits perspective drawing of most formulas encountered in organic chemistry (especially theoretical organic chemistry), and is particularly useful in deciphering reaction mechanisms, optically active compounds, and formulas where orbitals are of importance. It supplements the "Stencil for Drawing Organic Structural Formulas" and is constructed according to the rules of dimetrical projection.

Stencil and instruction booklet £11.50 plus £1.75 VAT in U.K.

Stencil for Drawing Organic Structural Formulas

This stencil was especially created for drawing organic chemistry structural formulas. It measures 258 × 83mm; is made of tough yellow plastic with raised edges. A detailed instruction booklet in English and German is included with the stencil.

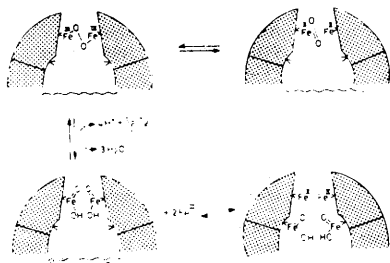
Stencil and instruction booklet £5.00 plus 75p VAT in U.K.

All prices are subject to change without notice. RSC Members entitled to a reduction in the price of Chemistry cassettes—details on request.

Orders should be sent to: The Royal Society of Chemistry, Distribution Centre, Blackhorse Road, Letchworth, Herts SG6 1HN.
Enquiries to: The Marketing Dept, The Royal Society of Chemistry, Burlington House, London W1V 0BN

RSC Publications

Specialist Periodical Report



Inorganic Biochemistry Vol. 1

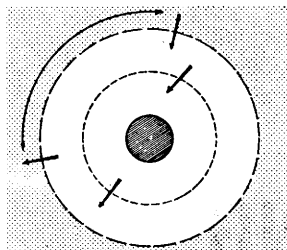
Senior Reporter: Dr H. A. O. Hill, *University of Oxford*

Inorganic Biochemistry can be defined as the biochemistry of those elements whose chemistry normally constitutes the province of inorganic chemists. Coverage is extremely wide, ranging from chemical physics to clinical medicine, and its influence is all-pervasive. There probably does not exist a single enzyme-catalysed reaction to which enzyme, substrate, product, or a combination of these is not influenced in a very direct and specific manner by the precise nature of the inorganic ions which surround and modify it.

The subject has developed dramatically this decade and it is believed that this volume, which reviews relevant work on the subject published in 1977, and those that follow in this new series will ease the burden of inorganic biochemists as they seek to relate their work to fields far beyond the confines of the traditional disciplines.

**Hardcover 458 pp 8³/₄" × 5⁵/₈" 0 85186 570 4
£36.50 (RSC Members edition £14.50)**

Specialist Periodical Report



Inorganic Reaction Mechanisms Vol. 6

Senior Reporter: Professor A. McAuley, *University of Victoria, B.C., Canada*

The sixth volume in this series on inorganic reaction mechanisms reviews the literature published between July 1976 and December 1977.

'This volume and its predecessors address the problem of reviewing such a large and diverse field in a constructive, realistic, and helpful way, and it is hard to see how any inorganic kineticist could be without them.'—*Anthony Poë, Journal of Organometallic Chemistry, reviewing Vol. 4.*

Brief Contents:

Part I: Electron Transfer Processes: Reactions Between Two Metal Complexes; Metal Ion-Ligand Redox Reactions; Reactions involving Oxygen and Hydrogen Peroxide

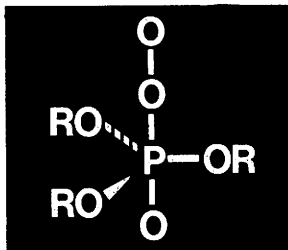
Part II: Substitution and Related Reactions: Non-metallic Elements; Inert Metal Complexes: Co-ordination Numbers Four and Five; Inert Metal Complexes: Co-ordination Number Six and Higher; Labile Metal Complexes; Solvent Effects

Part III: Reactions of Biochemical Interest

Part IV: Organometallic Compounds: Substitution; Metal-Alkyl, -Aryl, and -Allyl Bond Formation and Cleavage; Insertion Reactions; Reactions of Co-ordinated Ligands; Oxidative Addition and Reductive Elimination; Isomerization: Intramolecular Processes

**Hardcover 491 pp 8³/₄" × 5⁵/₈" 0 85186 305-1
£44.00 (RSC Members edition £17.50)**

Specialist Periodical Report



Organophosphorus Chemistry Vol. 11

Senior Reporters:

Dr D. W. Hutchinson, *University of Warwick*

Professor S. Trippett, *University of Leicester*

The tenth volume in this highly successful series covers the literature published between July 1977 and June 1978.

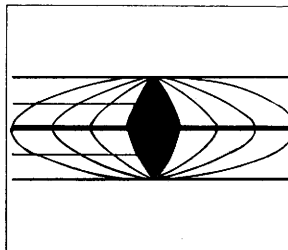
'The overall quality of the reports is high, and the scope of the literature is beyond that which would be possible for even the most indefatigable individual journal reader and note taker.'—*Bernard Miller, Journal of Medicinal Chemistry, reviewing Vol. 8*

Brief Contents:

Phosphines and Phosphonium Salts; Quinquevalent Phosphorus Compounds; Halogenophosphines and Related Compounds; Phosphine Oxides and Sulphides; Tervalent Phosphorus Acids; Quinquevalent Phosphorus Acids; Phosphates and Phosphonates of Biochemical Interest; Nucleotides and Nucleic Acids; Ylides and Related Compounds; Phosphazenes; Physical Methods

**Hardcover 302 pp 8³/₄" × 5⁵/₈" 0 85186 980 7
£54.00 (RSC Members edition £35.00)**

Annual Report



Annual Reports on Analytical Atomic Spectroscopy Vol. 9

Editors: Dr J. B. Dawson *University of Leeds*,

Dr B. L. Sharp, *The Macaulay Institute, Aberdeen*

This series provides the practising analytical chemist and spectroscopist with a handbook of current practice and recent advances in instruments and methods for the determination of elements in the form of comprehensive, critical annual reports. As atomic spectrometric analysis has matured, progress in realizing the goal of precise and accurate analysis has led to the appearance of many papers in which information concerning fundamental principles, instrumentation and methodology is found within a single publication. For this reason, the structure of Volume 9 differs from its predecessors in that the two parts, 'Fundamentals and Instrumentation' and 'Methodology', have been expanded into four chapters, 'Atomization and Excitation', 'Instrumentation', 'Methodology', and 'Applications', in order to give a clearer distinction between work that is of general interest and that dedicated to a specific analysis.

Brief Contents: *Atomization and Excitation; Instrumentation; Methodology; Applications; New Books; Reviews; Meetings; References; Author Index; Subject Index*

**Hardcover 357 pp 8¹/₂" × 6" 0 85186 727 8
£34.00 (RSC Members £22.00)**

CLASSIFIED ADVERTISEMENTS



SCHWEIZERISCHE
CHEMISCHE GESELLSCHAFT
Verlag Helvetica Chimica Acta
Postfach, CH-4002 Basel

HELVETICA CHIMICA ACTA

Subscription

Vol. 64, 1981 (sFr. 435.-)

Still available

Reprinted editions
Vols 1-27 (1918-1944)

Original editions
Vols 29-63 (1946-1980)

Vol. 28 Out of print

Please request our price list

CLASSIFIED ADVERTISING

DISPLAY AND
SEMI-DISPLAY
£3.50 per single
col. cm.
column width
43mm (10 ems)

Send your
advertisements:-
Judy Dutton,
Classified
Advertisements,
Burlington
House,
Piccadilly,
London
W1V 0BN.

KING'S COLLEGE LONDON UNIVERSITY OF LONDON DEPARTMENT OF CHEMISTRY

Applications are invited for an
SRC POSTDOCTORAL
RESEARCH ASSISTANTSHIP
to study new amines with exceptional
basic properties, involving some
organic synthesis and the use of fast
reaction equipment to investigate
reaction mechanisms in solution. The
successful applicant will be expected
to take up the post by 1st August 1981.
Salary £5505-£6245 p.a. plus £967
London Allowance. Applications with
curriculum vitae and names of two
referees to Dr. F. Hibbert, Department
of Chemistry, King's College London,
Strand, London WC2R 2LS, from
whom further details may be
obtained. Quote reference CC.

UNIVERSITY OF LEICESTER

Lectureship in Chemistry

Applications are invited for a Lectureship in Chemistry in the Department of Chemistry. This is financed for the first five years by the Science Research Council under their Special Replacement Scheme designed to retain first-class young scientists in academic life. The conditions of service, including probation and tenure, are the same as for other lectureships within the University. Initial salary will depend upon qualifications and experience on the scale £5,505 to £11,575 with superannuation benefits.

In addition to the normal duties of a Lecturer in Chemistry, including teaching preferably in the field of Organic Chemistry, the successful applicant will be expected to collaborate during the first five years with Professor Martyn Symons and provide biochemical expertise in research on metalloenzymes and on radiation effects on DNA. Details of this collaboration and research can be obtained directly from Professor Symons.

Further particulars from the Registrar, The University of Leicester, University Road, Leicester, LE1 7RH, to whom applications should be sent on the form provided by 30 April 1981.