

# Atlas of Stereochemistry

Absolute Configurations  
of Organic Molecules

Second Edition

Volume Two

W. Klyne and  
J. Buckingham

Atlas of  
Stereochemistry

---

VOLUME TWO

# William Klyne

1913-1977

---

The death of Bill Klyne on 11 November 1977 is regretfully recorded. He was born near London in 1913 and graduated from Oxford University. In 1936 he became assistant in medical chemistry at Edinburgh; further posts at Edinburgh and at the Postgraduate Medical School, Hammersmith, London, eventually led to his appointment in 1960 to the first Chair of Chemistry at Westfield College, University of London.

During the 1940s and 1950s he became interested in the use of optical rotation methods and this remained his primary research interest, together with steroid chemistry. As equipment for ORD measurements became available in the late 1950s he built up a relatively small but very active research group which exploited the technique in an extensive range of measurements. These resulted in numerous research papers, which made valuable contributions to absolute configuration determinations and other stereochemical problems by the exploitation of the empirical or semi-empirical approach. He was extremely active on international chemical bodies such as IUPAC and had numerous friends among chemists throughout the world.

In addition to the *Atlas of Stereochemistry*, his longer publications included *The Chemistry of the Steroids*, *Practical Chemistry for Medical Students* and several review articles on ORD/CD. A full-length book on the latter subject was in course of preparation at the time of his death. He was also a member of the Editorial Advisory Committee of *Heilbron's Dictionary of Organic Compounds*.

J.B.

# ATLAS OF STEREOCHEMISTRY

*Absolute Configurations of Organic Molecules*

Second Edition

---

Volume Two

W. Klyne and J. Buckingham

*Westfield College, University of London*



SPRINGER-SCIENCE+BUSINESS MEDIA, B.V.

©1978 *W. Klyne and J. Buckingham*

*Originally published by Chapman and Hall Ltd in 1978  
Softcover reprint of the hardcover 2nd edition 1978*

ISBN 978-0-412-15460-7      ISBN 978-1-4899-3422-2 (eBook)  
DOI 10.1007/978-1-4899-3422-2

All rights reserved. No part of this book may be reprinted, or reproduced or utilized in any form or by any electronic, mechanical or other means, now known or hereafter invented, including photocopying and recording, or in any information storage and retrieval system, without permission in writing from the Publisher.

# Contents

---

PREFACE	<i>page</i>	vii
SUPPLEMENTARY KEY AND NOTES		ix
LIST OF PRINCIPAL FORMULAE ALTERED OR DELETED IN THE SECOND EDITION		xi
A' Fundamental Chiral Compounds		1
C' Carbohydrates		43
T' Terpenes (including Steroids)		47
K' Alkaloids		67
Y' Miscellaneous Natural Products		79
D' Compounds with Chirality due to Isotopic Substitution		97
X' Compounds containing Chiral Axes, Planes, etc		103
Z' Compounds containing Chiral Atoms other than Carbon		117
AUTHOR INDEX		131
SUBJECT INDEX		157
FORMULAE INDEX		171

# Preface

---

The favourable reaction which greeted the first edition of the 'Atlas', combined with the high rate at which new work in the field of absolute configurations has continued to appear since its publication, persuaded us that its updating and revision would be worthwhile. The result is a new and completely revised edition in two volumes.

Together, the two new volumes cover the literature up to the middle of 1976, thus extending the literature coverage of the first edition by about 4½ years. During this period much new work on absolute configurations has appeared. Whilst it is true that by 1971 the majority of the biologically important compounds and types of natural products likely to be encountered by the average chemist (for example, the commoner terpene skeletons) had been fairly firmly 'anchored' stereochemically, the last five years has been a period of considerable consolidation and enlargement of the field. Many new and unusual types of natural product have been characterized and the determination of the absolute configuration is now often undertaken rightly as a matter of routine and not as a side-line which was often the case in the past. Many more small chiral molecules have had their absolute configurations determined for the first time, and several significant groups of compounds have had their accepted absolute configurations reversed, resulting in the need for the complete revision of certain sections. Examples are the abscisic acid group of sesquiterpenes, a number of compounds related to the santalenes, the cryptostylynes, cularine and the *Iboga* alkaloids.

We wish to express our gratitude to those reviewers and other correspondents whose helpful and detailed comments on the first edition were most welcome. A few errors which were drawn to our attention have been corrected in this new edition, and in accordance with our stated policy of basing the 'Atlas' on the most up-to-date and reliable correlations available, a few older correlations which appeared in the first edition have been deleted. In addition, the new edition contains a number of compounds from the older literature which have come to our attention since the first edition went to press.

W Klyne  
J Buckingham  
*April 1977*

# Supplementary Key and Notes

---

## *Scope and literature coverage*

The second edition covers the literature to mid-1976. Some correlations from the older (pre-1971) literature which came to light during the preparation of the second edition are also included, and the coverage of compounds of principally pharmaceutical significance has been enlarged.

## *Arrangement of material*

Volume 1 covers mainly the literature up to the end of 1971, which was the scope of the first edition. Volume 2 is mostly based on the literature from 1972-6. There are, however, exceptions to this generalization; in particular, some sections which appeared in the First Edition have been enlarged and rewritten as a result of new work and most of these have been transferred to Volume 2. Volume 2 is compatible for the most part with the single volume of the First Edition provided allowance is made for the fact that some of the assignments of absolute configuration given in the first edition have since been shown to be incorrect (see list on page xi of Volume 2).

Where space permitted, additional formulae have been added to existing pages in Volume 1 to minimize the number of cross-references between the two volumes. The arrangement and content of chapters is the same as in the first Edition.

## *Numbering of formulae and cross-references*

In general, this follows the same plan as in the First Edition, with page numbers in Volume 2 distinguished by the addition of a prime, i.e., A32.2', the second formula on page A32 of Volume 2. On a few pages in Volume 1, addition or deletion of formulae has meant that the order of formulae on the page is no longer strictly numerical, or else one or more formulae numbers are missing.

## *Symbols and abbreviations*

The sign §, in addition to the meanings ascribed to it in the first edition, is used wherever a formula or absolute configuration given in the second edition differs for whatever reason from that given in the first edition for the same compound, except where the only difference is the correction of a trivial error.

## *Note on the assignment of absolute configurations by the Bijvoet method*

During 1972-3 great concern was felt regarding the correctness of results based on the Bijvoet method of anomalous dispersion of X-rays. Calculations by Tanaka and his co-workers (*Chimia*, 1972, **26**, 271; *Chem. Comm.*, 1973, **21**, 22) appeared to indicate a contradiction between Bijvoet determinations for some compounds and *ab initio* calculations of the absolute configurations of the same compounds based on chiroptical measurements. This was taken as an indication that the Bijvoet treatment was giving the 'wrong' answer.

## Supplementary Key and Notes

---

Careful analysis by other experts in the chiroptical techniques, however (S. F. Mason, *Chem. Comm.*, 1973, 239; A. M. F. Hezemans and M. P. Groenewegen, *Tetrahedron*, 1973, **29**, 1223) and by X-ray crystallographers, now indicates that the error lay in the method used for the calculation of the absolute configurations from the spectroscopic data, and that the Bijvoet method is indeed *correct*. This interlude did show, however, how slender is the thread of argument, albeit correct, on which the Bijvoet assignments are made, and also how few chemists are truly competent to pass judgement on these matters.

### *Lists of Bijvoet X-rays*

The lists of compounds to which the Bijvoet method has been applied, produced by Professor Rogers and his co-workers, which were referred to in the Introduction to the First Edition, have been discontinued owing to the publication of 'Molecular Structure and Dimensions' beginning in 1973. This is a comprehensive listing of *all* X-ray determinations (relative and absolute) and for cross-checking the completeness of our Bijvoet listings we have relied on the published data in this book together with a computer-search program kindly run for us by Dr Kennard to cover the period subsequent to the appearance of the most recent volume.

# List of Principal Formulae altered or deleted in the Second Edition

---

Readers using Volume Two of the second edition in conjunction with the first edition should note that the following absolute configurations which were given in the first edition have been deleted from, or modified in, the second edition.

<i>First edition reference</i>	<i>Compound(s)</i>	<i>Second edition reference</i>
A19.3, A23.4	1,2-diamino-1,2-diphenylethane	A20.19
A23.11	Isoamarine	Deleted
A31.13	3,4-dimethylcyclopentanone	A31.13
A31.14	3,4-dimethyladipic acid	A31.14
A45.14	Adamantan-4,8-dione-2-carboxylic acid	A33'.6
A46.13	Bicyclo[2.2.2]octan-2-ol	A46.13
C3.15	Streptomycin	C3.15
T2.1	Todomatuic acid, juvabione	T2.16
T3.13	Davanone	T3.13
T11.4, T11.5	Tricycloekasantalic and ekasantalic acids	Deleted
T16.10-T16.12	Abscisic II etc.	T17'.8
T21.4	Eupatoriopicrin	T21.4
T29.9	Acorone	Deleted
T29.10	Hinesol	T2'.9
T31.3	Ovalicine	T31.3
T36.9	Cafestol	T36.9
T37.1	Nepetaefolin	T37.1
T38.10-T38.13	Inumakilactone, Nagilactone C	T38.10-T38.13
T39.10	Plathyterpol	Deleted
T51.11	Melianone	T51.11
K1.6	Cryptostylines	K1.1
K5.5	1-(4',5'-dimethoxy-2'-hydroxybenzyl)-7-methoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline	Deleted
K5.6	Cularine	K5.5
K15.5	Haplophytine	K2'.8
K15.6	Ibogamine	K15.7
K20.2	Febrifugine	K10'.3
K27.6	Lagerine	Deleted
K36.1, K36.3, K36.6	Buxus alkaloids	K36.1, K36.2, K36.6
Y1.5	Toxol	Y1.5
Y2.8	Viopurpurin	Deleted
Y7.13	Plicatic acid	Y7.13
Y11.7	Sclerotiorin	Y11.7
Y22.6	Viomycin	Y22.6
Y24.6	Chaetocin	Y24.6
Y25.5	Leucomycin	Y25.5
Y28.3	Pillaromycin A	Y28.3
D2.9, D2.10	[3- <sup>2</sup> H] cyclopentanone etc.	D2.21

# A'

## Fundamental Chiral Compounds

---

### Introductory Notes to Chapter A'

The scope and arrangement of material in Chapter A' follows that in Chapter A.

#### *Location of compounds by class*

Class 1a, 1b; Page A1'

Class 2a; Pages A2'-A14', A17', A20'-A23', A27', A30'

Class 2b; Pages A7'-A10', A14', A19', A22', A30'

Class 3a; Pages A11'-A13', A15'-A18', A20'-A36'

Class 3b; Pages A13'-A15', A17'-A19', A21', A26'-A28', A35'

Class 4a; Pages A27', A36'-A39'

Class 4b; Pages A27', A30', A36', A39'-A40'

#### *Simple compounds found in other chapters*

Class 1b; methyl  $\alpha$ -halogenobenzyl sulphones Z5'.3

Class 2a; 5-oxoprolinol K5'.3

3-carboxy-4-hydroxy-2-methylpent-2-enoic acid 1,4-lactone K8'.10

4-hydroxy-5-methylhexanoic acid lactone Y1'.10

3,4-dihydroxyoctanoic acid 1,4-lactone Y2'.8

6,7-diacetoxypentadecane Y4'.7

hexane-1,5-diol Y5'.2

5-hydroxyhex-2-enoic acid Y5'.3

hexane-1,4,5-triol Y5'.4

4,5-dihydroxyhexanoic acid 1,5-lactone Y5'.5

4-hydroheptanoic acid lactone Y5'.9

oct-1-yn-3-ol Y8'

3-hydroxy-oct-5-en-1-yne Y8'

octan-3-ol Y8'

2-hydroxy-5-methylhexanoic acid Y9'.8

2,5-dimethoxyadipic acid Y11'.3

6-amino-5-hydroxycyclohexa-1,3-diene-1-carboxylic acid Y14'.8

adamantyl 2-pentyl sulphide Z9'.9

Class 3a; 3-methylhexan-3-ol T1'.2

4-hydroxy-2-methylbutyric acid lactone T1'.9

3,6-dimethylheptanoic acid T1'.12

4-methyl-3-oxocyclohexanecarboxylic acid T4'.14

3-acetyl-6-oxoheptanoic acid methyl ester T10'.2

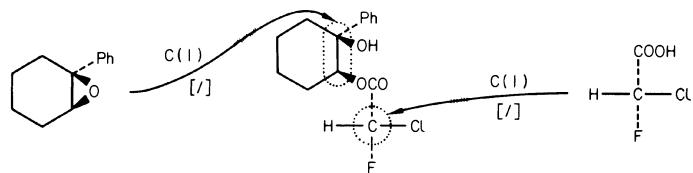
5-oxo-2-isopropylhexanal T10'.8

1,2-bis(hydroxymethyl)-3,3-dimethylcyclopropane T14'.8

2-isopropyl-5-methylhexanol T18'.11

---

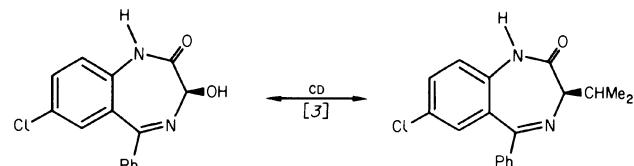
3-methylheptane-2,5-dione K8'.6  
3-methoxycarbonyl-2-methylpent-3-enoic acid K8'.8  
3-hydroxymethyl-4-methylpentanoic acid lactone Y1'.9  
nonylsuccinic acid Y2'.1  
2,4,6-trimethyl-5-(2-hydroxyethyl)indane Y7'.6  
2-hydroxycyclohexaneacetic acid lactone Y8'.4  
3-methylcyclohex-3-ene-1,2-diacetic acid Y8'  
3-methylcyclohex-4-ene-1,2-dicarboxylic acid methyl ester Y8'  
2-ethyl-3-methylglutaric acid dimethyl ester Y13'.5  
3-ethyl-2-methylglutaric acid dimethyl ester Y13'.7  
2-amino-3-hydroxycyclohexanecarboxylic acid Y14'.7  
7,7-dimethylbicyclo[2.2.1]heptan-2-one D3'.1  
4,5,5-trimethylhexa-2-ynoic acid X1'.3  
Class 3b; 2-chloro-2-phenylethanol D1'.3  
Class 4a; 2-benzoyl-2-methoxycarbonylindan-1-one X2'.10  
Class 4b; 3-phenyl-1-indanone-3-acetic acid X2'.5



(1*S*,2*S*)-(-)-1,2-epoxy-1-phenylcyclohexane **A52.3**

I. (1*S*,2*S*,2'S)-2-(chlorofluoroacetoxy)-1-phenylcyclohexanol  
Abs. X-ray [1]

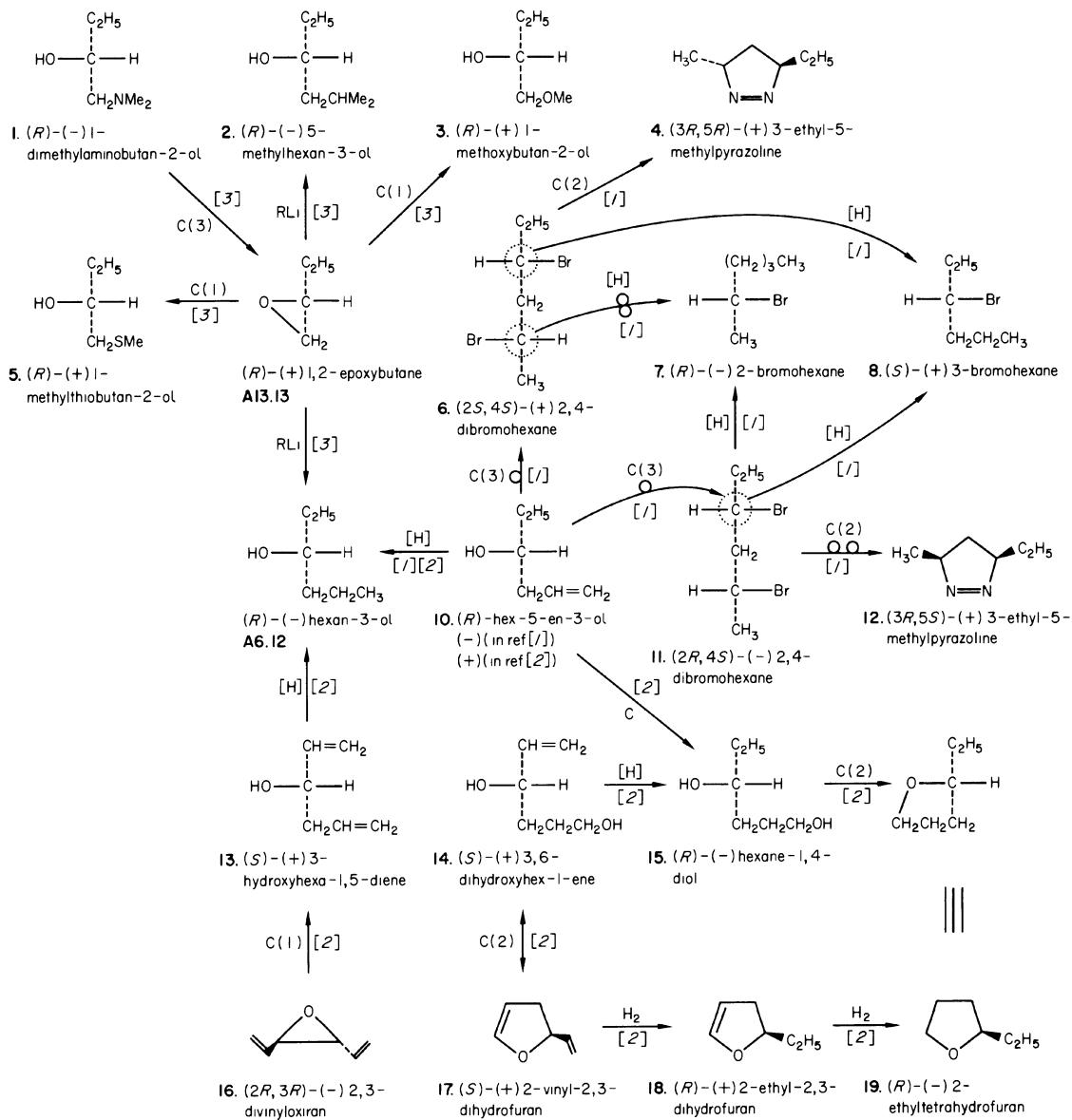
2. (S)-(+) chlorofluoroacetic acid



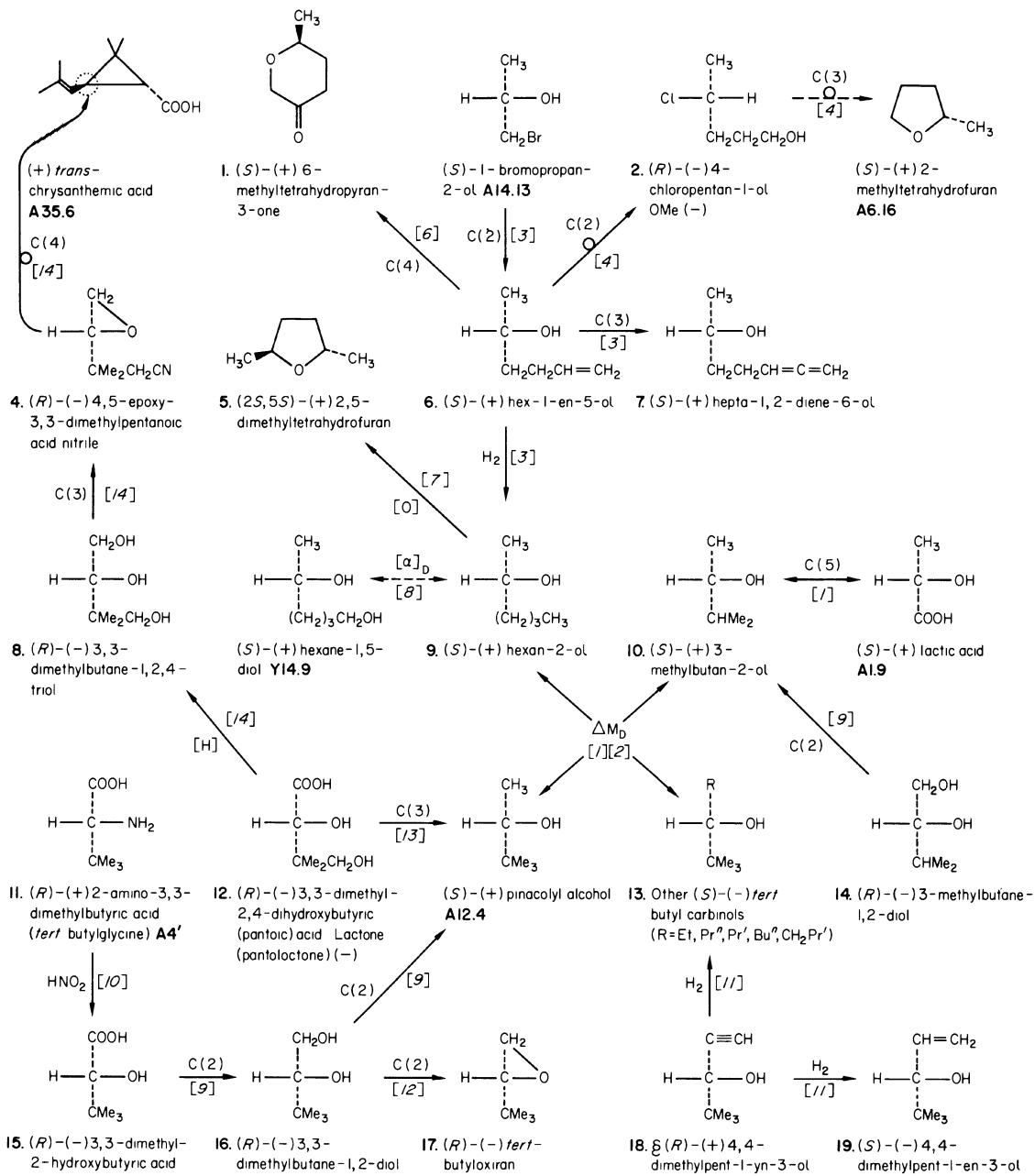
3. (R)-(-) oxazepam  
(7-chloro-1,3-dihydro-3-hydroxy-5-phenyl-[2H]benzodiazepin-2-one). Also by CD (benzoate rule) [2]

4. (R)-(-) 3-isopropylidemethyl diazepam  
**A4'; DI'**

1. G. Bellucci, G. Berti, C. Bettoni and F. Macchia, *J. Chem. Soc., Perkin II*, 1973, 292; M. Colapietro, R. Spagna and L. Zambonelli, *ibid.*, 295.
2. V. Sunjic, F. Kajfez, D. Kolbah and N. Blazevic, *Croat. Chem. Acta*, 1971, **43**, 205.
3. A. Corbella, P. Gariboldi, G. Jommi, A. Forgione, F. Marcucci, P. Martelli, E. Mussini and F. Mauri, *Chem. Comm.*, 1973, 721.

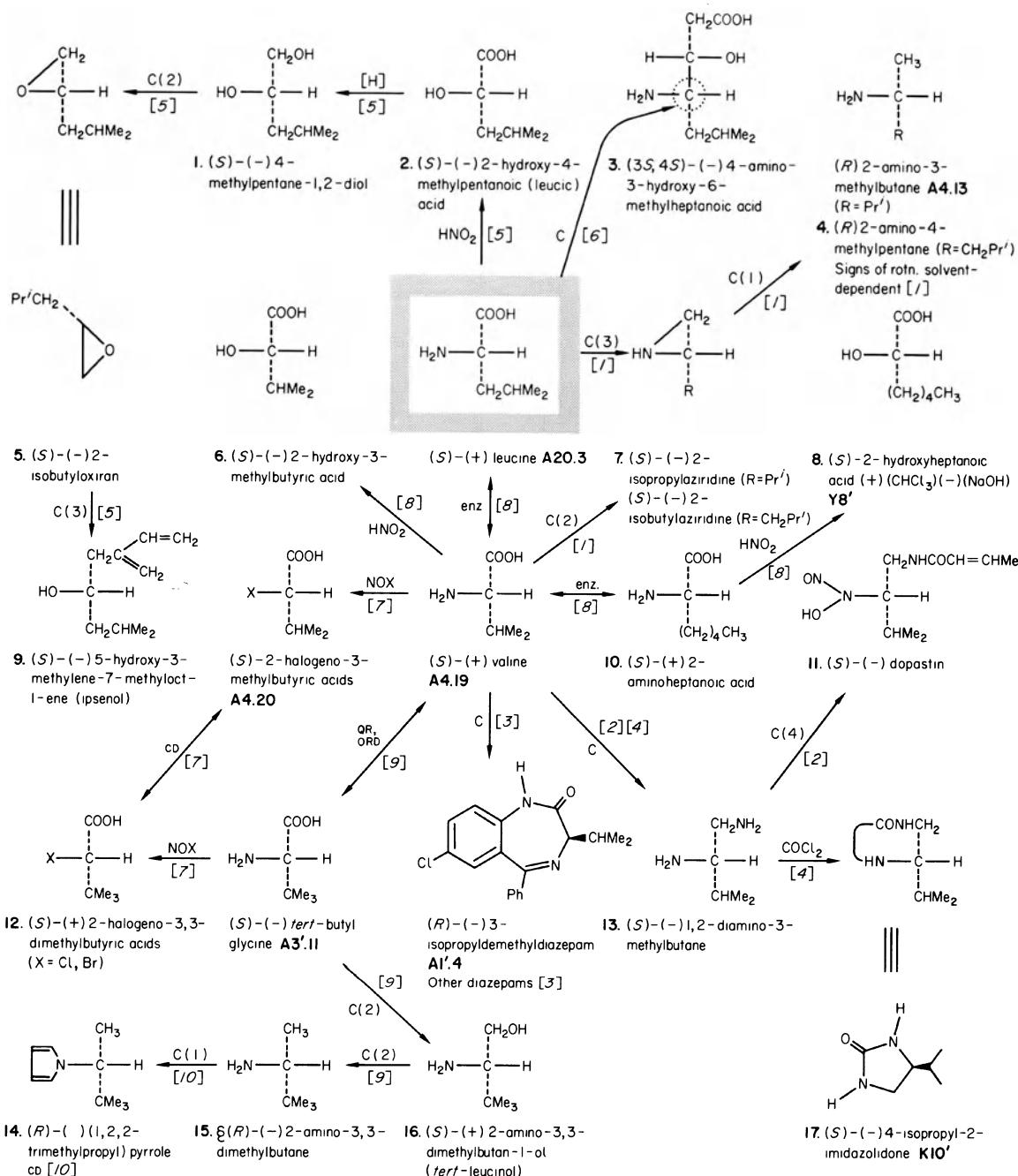
Mainly C<sub>6</sub> compounds related to hexan-3-ol

1. T. C. Clarke, L. A. Wendling and R. G. Bergman, *J. Amer. Chem. Soc.*, 1975, **97**, 5638.
2. R. J. Crawford, V. Vukov and H. Tokunaga, *Canad. J. Chem.*, 1973, **51**, 3718.
3. J. L. Coke and R. S. Shue, *J. Org. Chem.*, 1973, **38**, 2210.

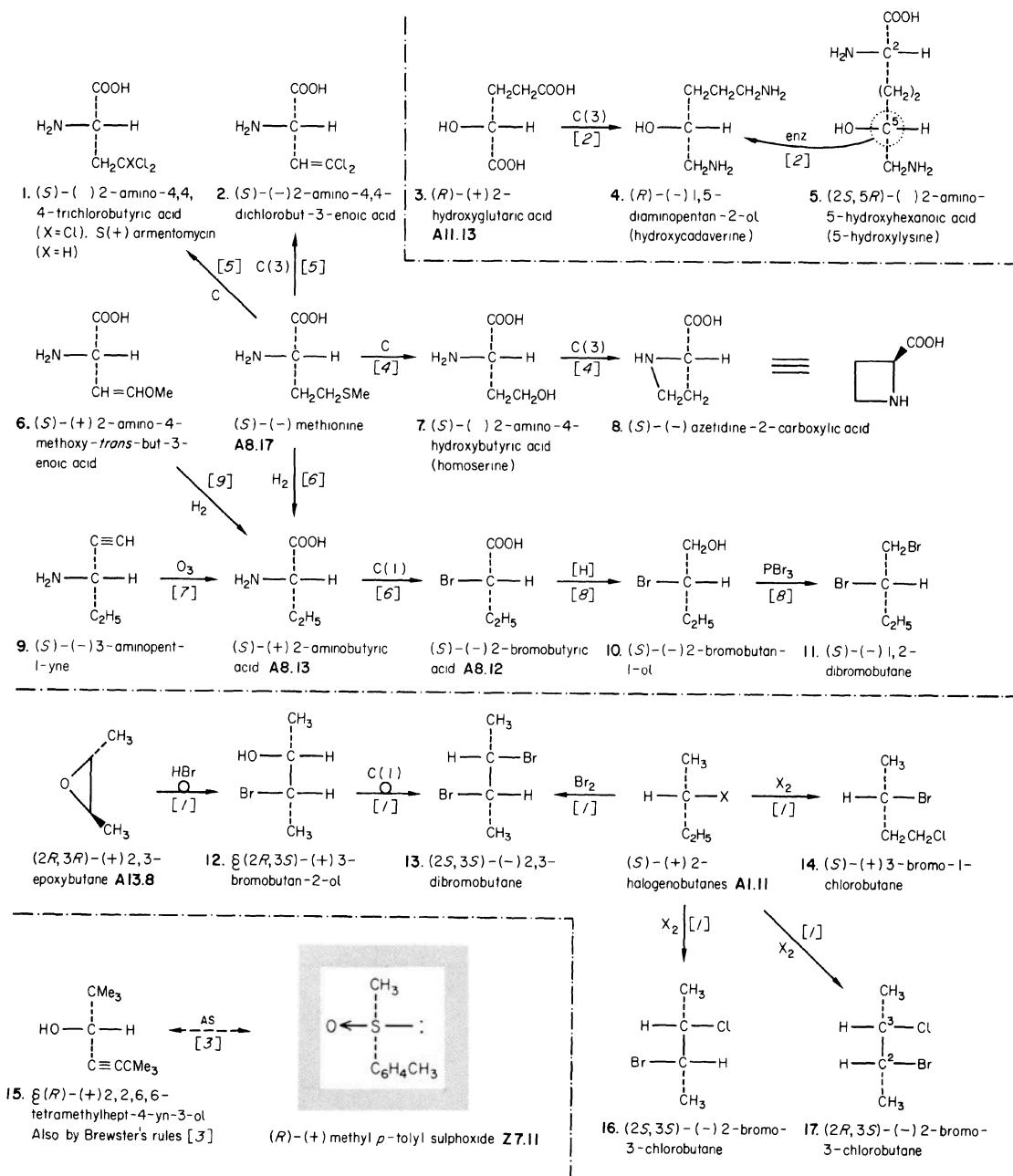


- P. G. Stevens, *J. Amer. Chem. Soc.*, 1932, **54**, 3732; 1933, **55**, 4237.
- W. M. Foley, F. J. Welch, E. M. LaCombe and H. S. Mosher, *J. Amer. Chem. Soc.*, 1959, **81**, 2779.
- B. Ragonnet, M. Santelli and M. Bertrand, *Helv. Chim. Acta*, 1974, **57**, 557.
- A. W. Friederang and D. S. Tarbell, *J. Org. Chem.*, 1968, **33**, 3797.
- E. R. Novak and D. S. Tarbell, *J. Amer. Chem. Soc.*, 1967, **89**, 73.
- M. M. Cook and C. Djerassi, *J. Amer. Chem. Soc.*, 1973, **95**, 3678.
- M. L. Mihailović, R. I. Mamuzić, L. Zigić-Mamuzić, J. Bosnjak and Z. Čeković, *Tetrahedron*, 1967, **23**, 215.
- H. P. Sigg, *Helv. Chim. Acta*, 1964, **47**, 1401.
- J.-P. Guetté and N. Spassky, *Bull. Soc. chim. France*, 1972, 4217.
- T. Tanabe, S. Yajima and M. Imaida, *Bull. Chem. Soc. Japan*, 1968, **41**, 2178.
- R. Weidmann, A. Schoofs and A. Horeau, *Bull. Soc. chim. France*, 1976, 645.
- M. Sepulchre and A.-M. Sepulchre, *Bull. Soc. chim. France*, 1973, 1164.
- R. K. Hill and T. H. Chan, *Biochem. Biophys. Res. Comm.*, 1970, **38**, 181.
- T. Matsuo, K. Mori and M. Matsui, *Tetrahedron Letters*, 1976, 1979.

## Compounds related to leucine and valine

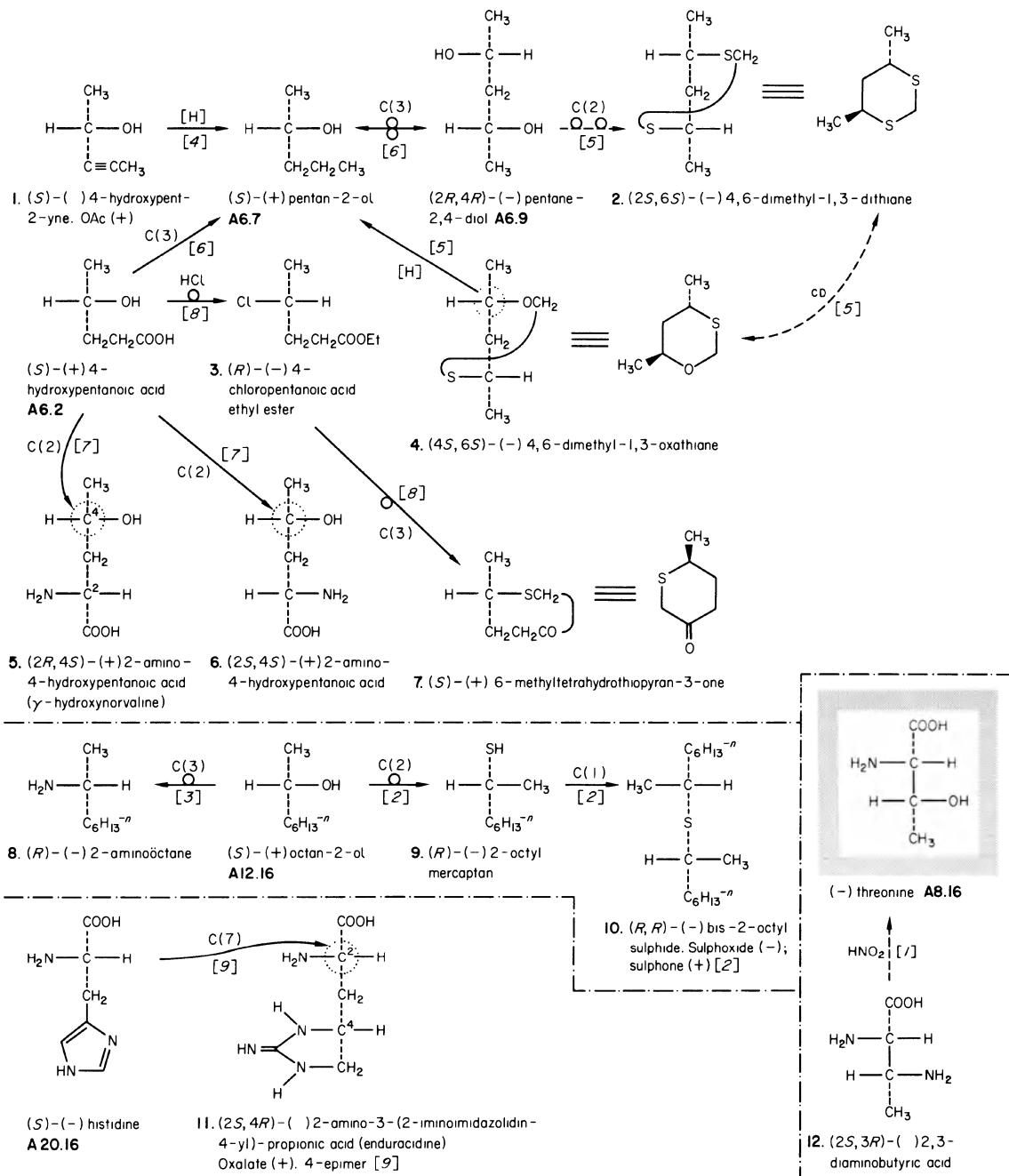


- H. Rubinstein, B. Feibush and E. Gil-Av, *J. Chem. Soc., Perkin II*, 1973, 2094.
- M. Ohno, H. Iinuma, N. Yagisawa, S. Shibahara, Y. Suhara, S. Kondo, K. Maeda and H. Umezawa, *Chem. Comm.*, 1973, 147.
- A. Corbella, P. Gariboldi, G. Jommi, A. Forgione, F. Marcucci, P. Martelli, E. Mussini and F. Mauri, *Chem. Comm.*, 1973, 721.
- F. Khuong-Huu, J.-P. Le Forestier and R. Goutarel, *Tetrahedron*, 1972, 28, 5207.
- K. Mori, *Tetrahedron Letters*, 1975, 2187.
- R. Steulmann and H. Klostermeyer, *Annalen*, 1975, 2245.
- W. G. Galetto and W. Gaffield, *J. Chem. Soc., (C)*, 1969, 2437.
- C. G. Baker and A. Meister, *J. Amer. Chem. Soc.*, 1951, 73, 1336.
- H. Pracejus and S. Winter, *Chem. Ber.*, 1964, 97, 3173.
- H. E. Smith, R. K. Orr and F. Chen, *J. Amer. Chem. Soc.*, 1975, 97, 3126; 1977, 99, 3894.

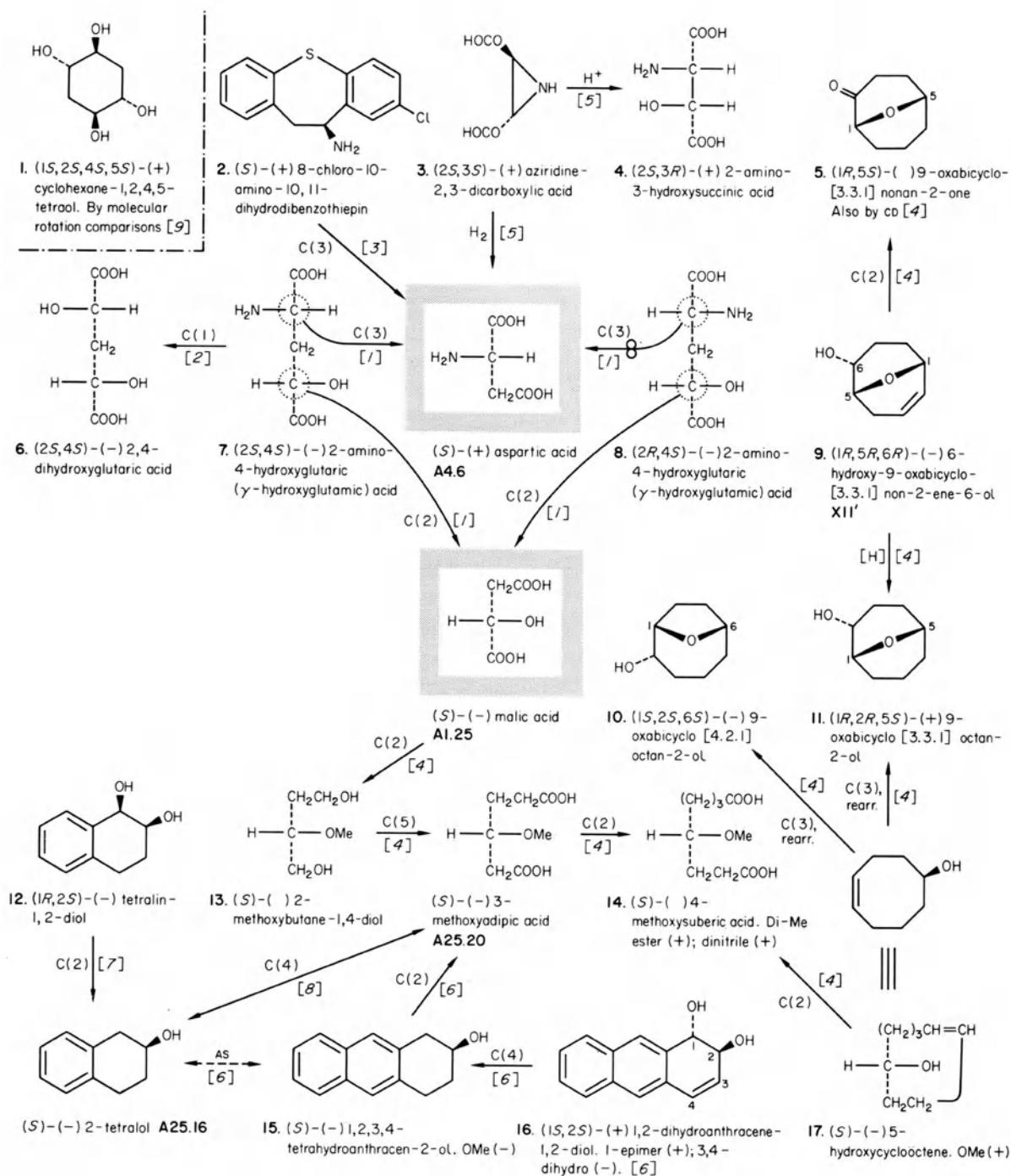


- P. S. Skell, R. R. Pavlis, D. C. Lewis and K. J. Shea, *J. Amer. Chem. Soc.*, 1973, **95**, 6735.
- S. Linstedt and G. Linstedt, *J. Org. Chem.*, 1963, **28**, 251.
- W. T. Borden and E. J. Corey, *Tetrahedron Letters*, 1969, 313.
- M. Miyoshi, H. Sugano, T. Fujii, T. Ishihara and N. Yoneda, *Chem. Letters*, 1973 5.
- Y. Urabe, T. Iwasaki, K. Matsumoto and M. Miyoshi, *Tetrahedron Letters*, 1975, 997.
- See p. A8.
- W. Kirmse, A. Engelmann and J. Heese, *J. Amer. Chem. Soc.*, 1973, **95**, 625.
- G. Bellucci, F. Marioni and A. Marsili, *Tetrahedron*, 1969, **25**, 4167.
- J. P. Scannell, D. L. Preuss, T. C. Demny, L. H. Sello, T. Williams and A. Stempel, *J. Antibiotics (Japan)*, 1972, **25**, 122.

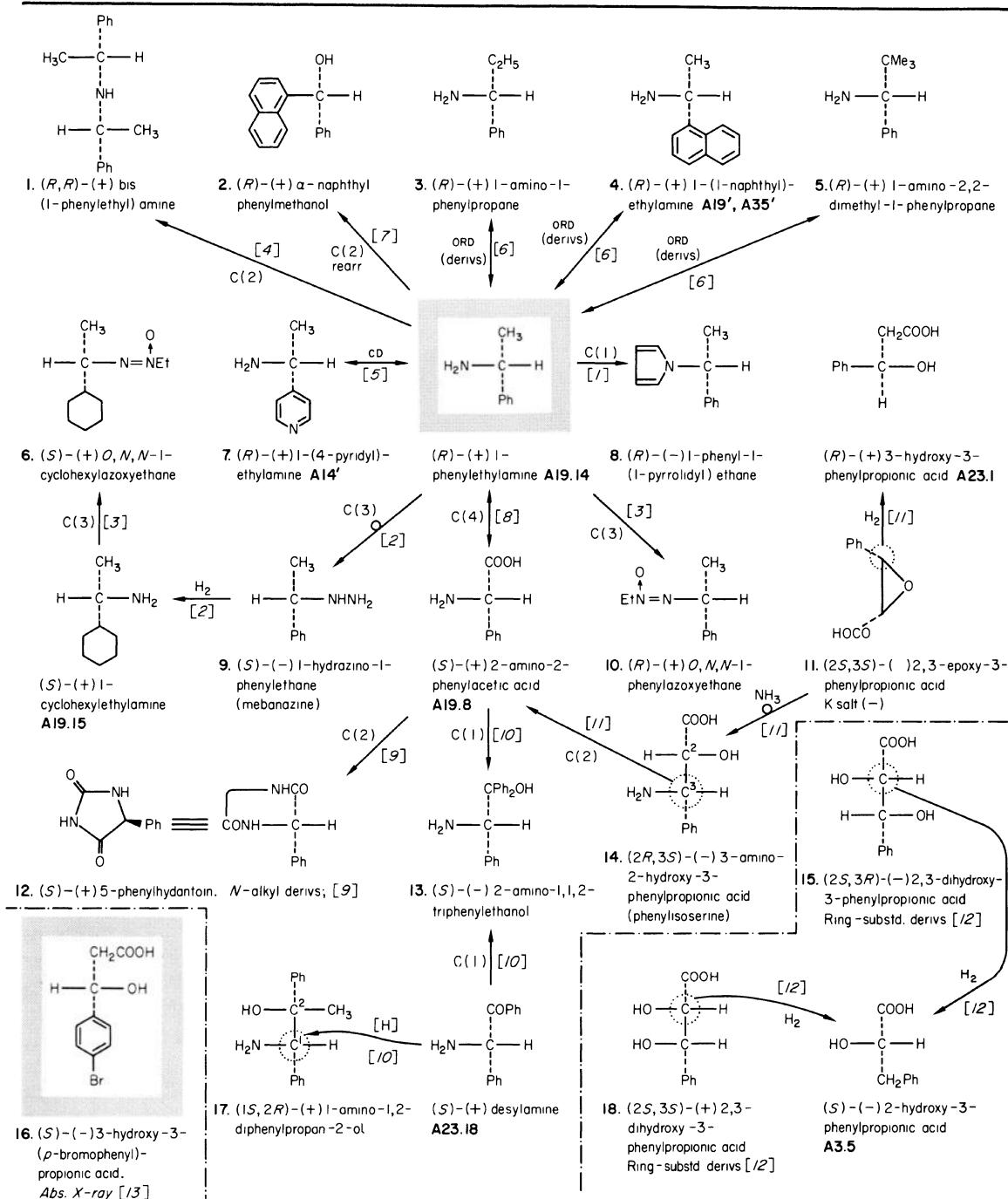
## Compounds related to pentan-2-ol and octan-2-ol



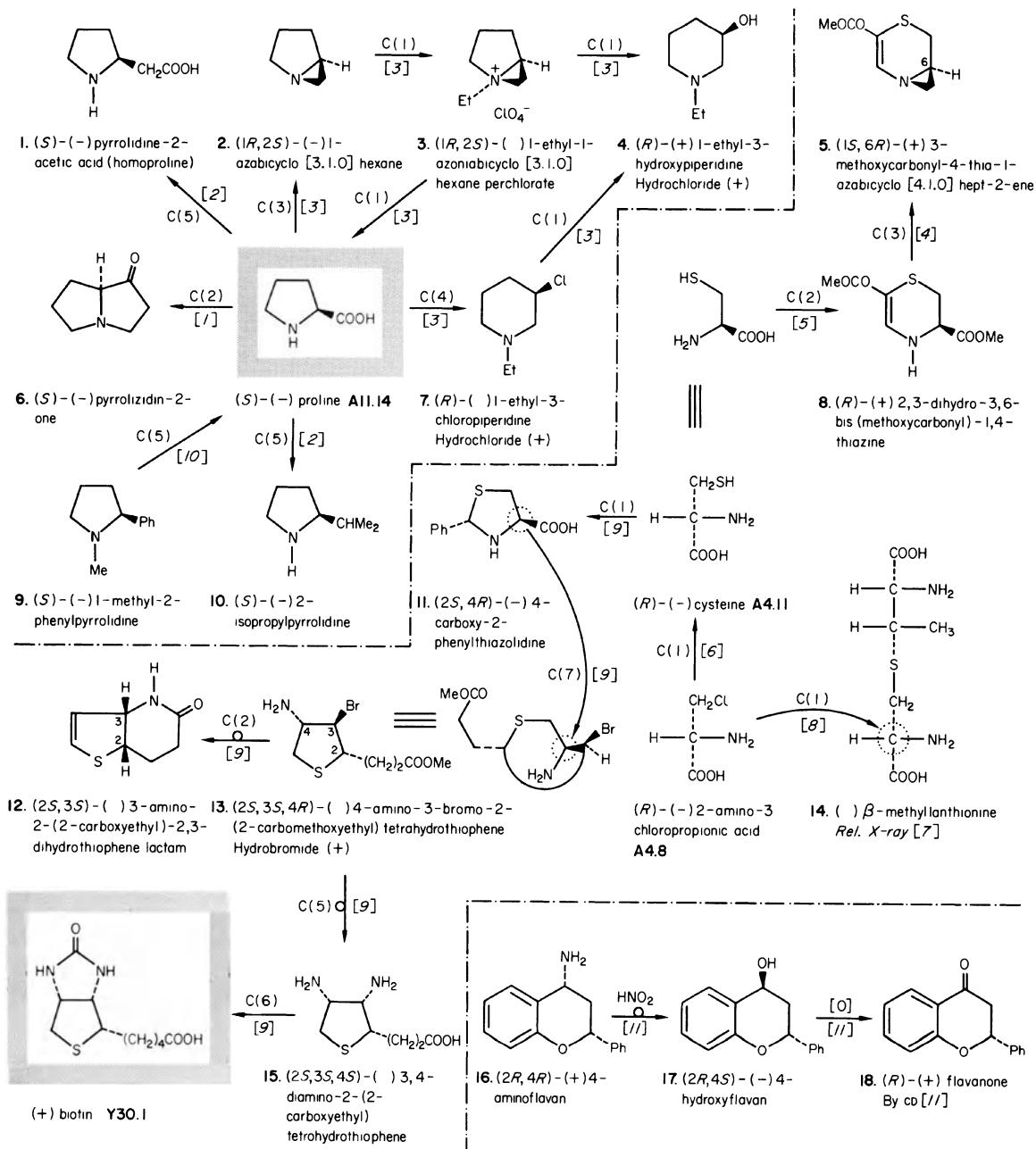
1. E. Atherton and J. Meienhofer, *J. Antibiotics (Japan)*, 1972, **25**, 539.
2. P. Calzavara, M. Cinquini, S. Colonna, R. Fornasier and F. Montanari, *J. Amer. Chem. Soc.*, 1973, **95**, 7431.
3. A. Streitweiser and W. D. Schaeffer, *J. Amer. Chem. Soc.*, 1956, **78**, 5597.
4. R. D. Bach, R. N. Brummel and J. W. Holubka, *J. Org. Chem.*, 1975, **40**, 2559.
5. D. Danneels, M. Anteunis, L. van Acker and D. Tavernier, *Tetrahedron*, 1975, **31**, 327.
6. See p. A6.
7. P. Matzinger, P. Catalfomo and C. H. Eugster, *Helv. Chim. Acta*, 1972, **55**, 1478.
8. M. M. Cook and C. Djerassi, *J. Amer. Chem. Soc.*, 1973, **95**, 3678.
9. S. Tsuji, S. Kusumoto and T. Shiba, *Chem. Letters*, 1975, 1281.



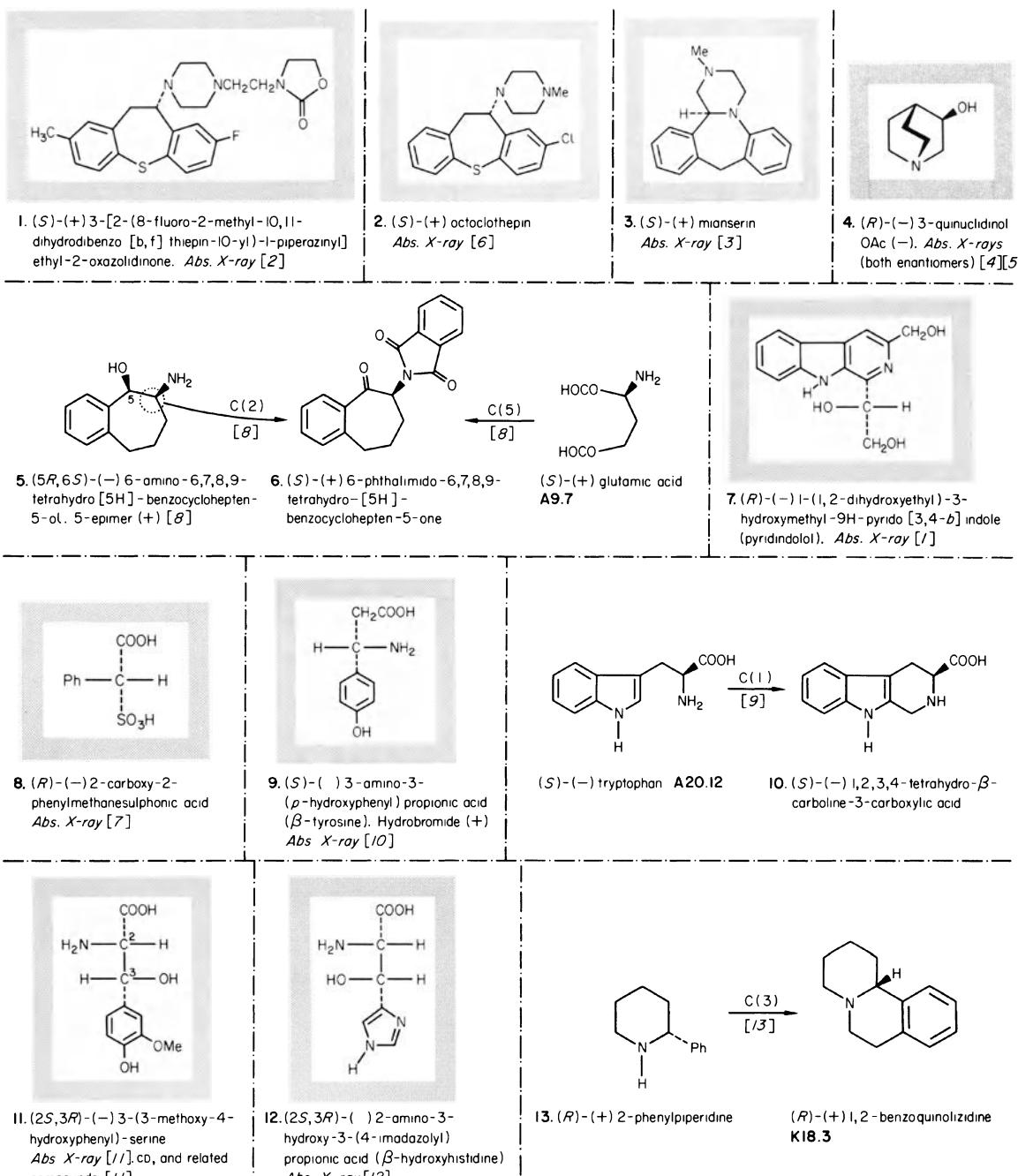
- Y. K. Lee and T. Kaneko, *Bull. Chem. Soc. Japan*, 1973, **46**, 3494.
- L. Benoiton, M. Winitz, S. M. Birnbaum and J. P. Greenstein, *J. Amer. Chem. Soc.*, 1957, **79**, 6192.
- D. T. Witiaik, B. R. Vishnuvajala, T. K. Gupta and M. C. Gerald, *J. Medicin. Pharmaceut. Chem.*, 1976, **19**, 40, and refs. therein.
- P. Ackermann, H. Tobler and C. Ganter, *Helv. Chim. Acta*, 1972, **55**, 2731, and refs. therein.
- H. Naganawa, N. Usui, T. Takita, M. Hamada and H. Umezawa, *J. Antibiotics (Japan)*, 1975, **28**, 828.
- M. N. Akhtar, D. R. Boyd, N. J. Thompson, M. Koreeda, D. T. Gibson, V. Mahadevan and D. M. Jerina, *J. Chem. Soc., Perkin I*, 1975, 2506; M. N. Akhtar and D. R. Boyd, *ibid.*, 1976, 676.
- K. Kabuto and H. Ziffer, *J. Org. Chem.*, 1975, **40**, 3467.
- See p. A25.
- J. D. Ramanathan, J. S. Cragie, L. McLachlan, D. G. Smith and A. G. McInnes, *Tetrahedron Letters*, 1966, 1527.



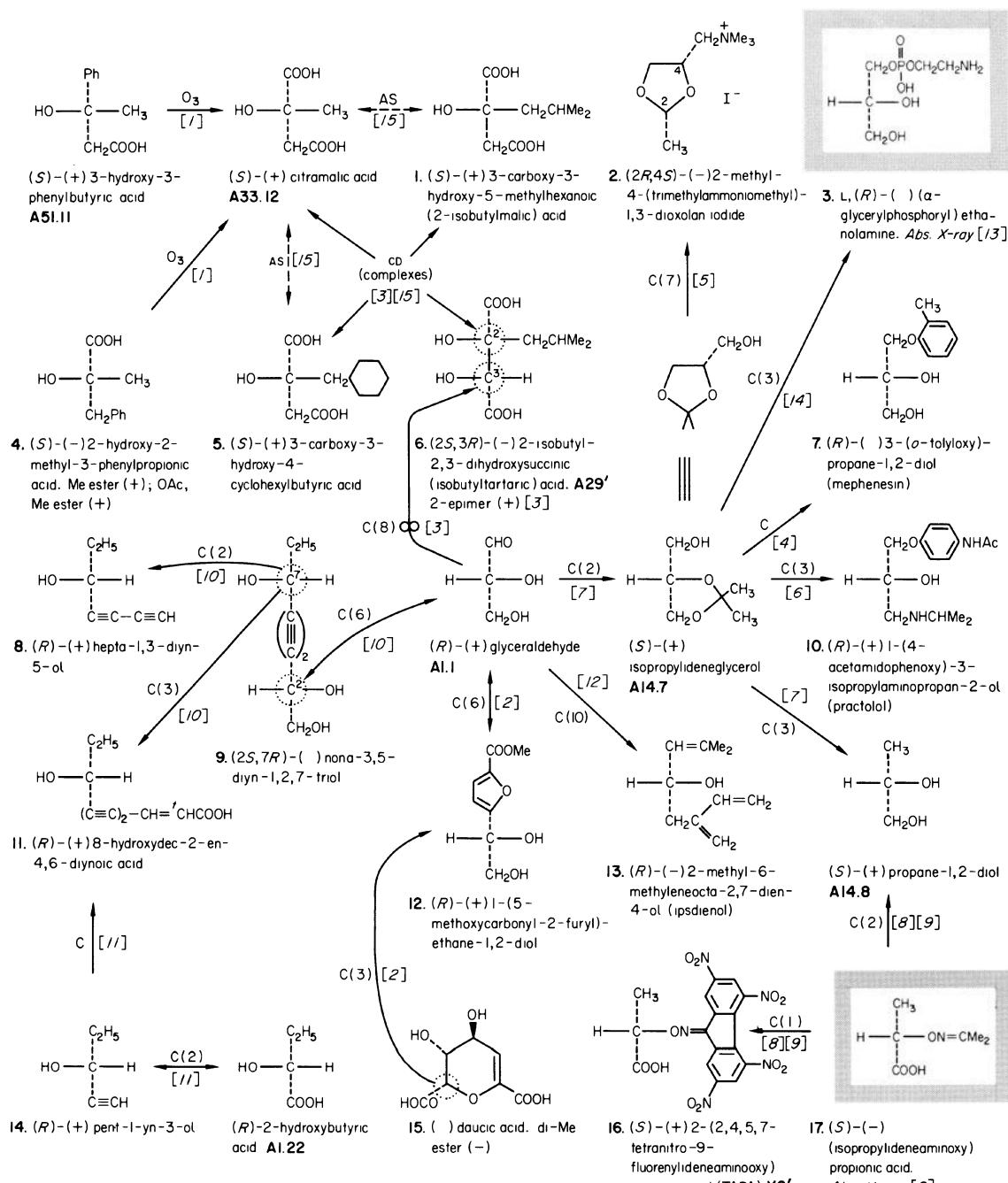
- H. E. Smith, R. K. Orr and F. Chen, *J. Amer. Chem. Soc.*, 1975, **97**, 3126.
- R. A. Moss and C. E. Powell, *J. Org. Chem.*, 1975, **40**, 1213.
- W. J. McGahren and M. P. Kunstmann, *J. Org. Chem.*, 1972, **37**, 902.
- M. Raban and G. Yamamoto, *J. Org. Chem.*, 1975, **40**, 3093.
- D. A. Jaeger, M. D. Broadhurst and D. J. Cram, *J. Amer. Chem. Soc.*, 1973, **95**, 7525.
- M. E. Warren and H. E. Smith, *J. Amer. Chem. Soc.*, 1965, **87**, 1757.
- G. Wittig and U. Thiele, *Annalen*, 1969, **726**, 1.
- See p. A19.
- K. H. Dudley and D. L. Bius, *J. Heterocyclic Chem.*, 1973, **10**, 173.
- B. M. Benjamin, P. Wilder and C. J. Collins, *J. Amer. Chem. Soc.*, 1961, **83**, 3654.
- K. Harada and Y. Nakajima, *Bull. Chem. Soc. Japan*, 1974, **47**, 2911.
- A. Collet, *Bull. Soc. chim. France*, 1975, 215.
- M. Cesario and J. Guilhem, *Cryst. Struct. Comm.*, 1974, **3**, 179.



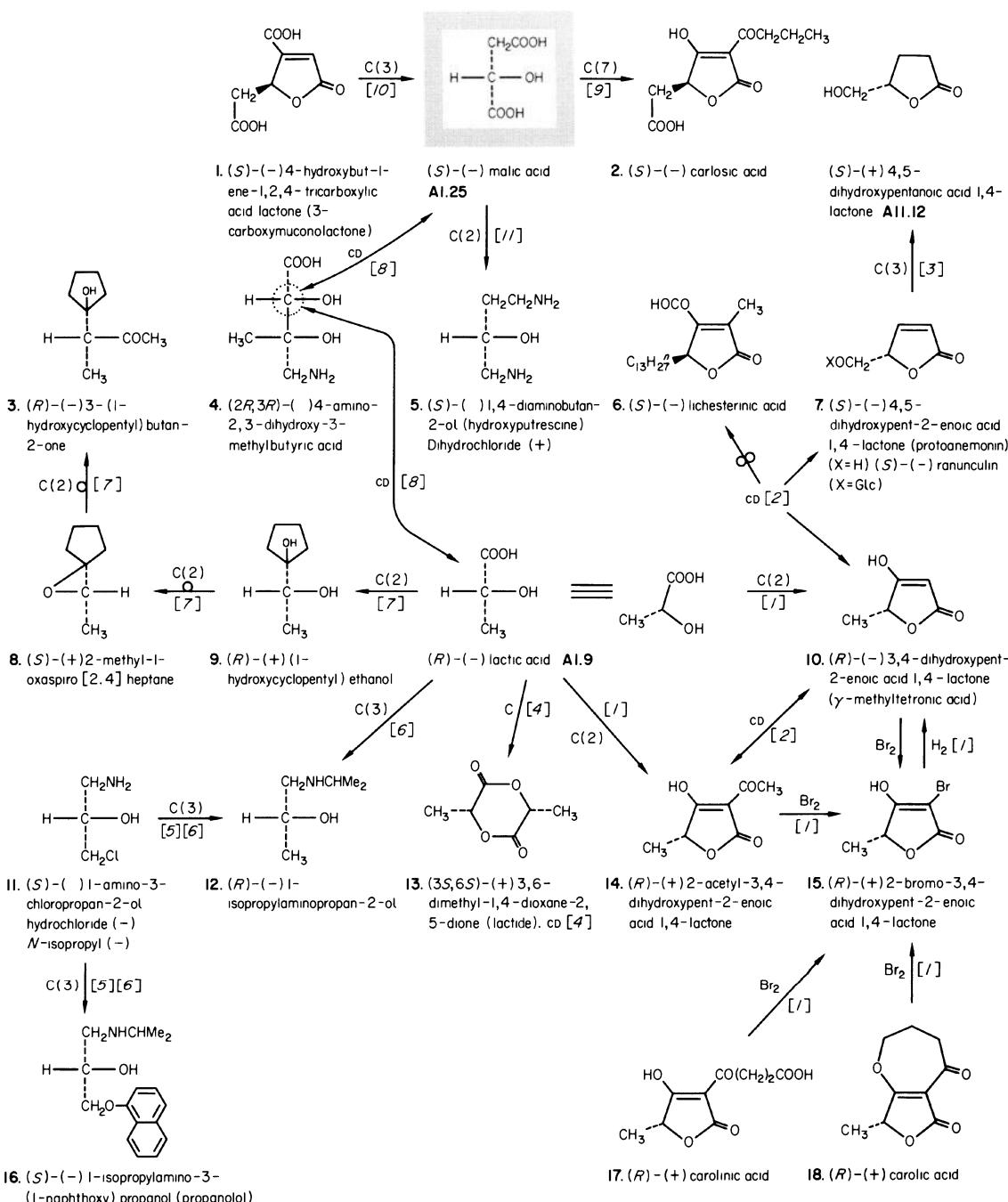
- S. Yamada and T. Kunieda, *Chem. Pharm. Bull. (Japan)*, 1967, **15**, 490.
- T. Sone, K. Hiroi and S. Yamada, *Chem. Pharm. Bull. (Japan)*, 1973, **21**, 2331.
- C. F. Hammer, S. R. Heller and J. H. Craig, *Tetrahedron*, 1972, **28**, 239.
- A. R. Dunn and R. J. Stoodley, *Tetrahedron*, 1972, **28**, 3315.
- A. R. Dunn, I. McMillan and R. J. Stoodley, *Tetrahedron*, 1968, **24**, 2985.
- See p. A4.
- J. R. Knox and P. C. Keck, *Acta Cryst.*, 1975, **B31**, 2698.
- J. L. Morell and E. Gross, *J. Amer. Chem. Soc.*, 1973, **95**, 6480.
- P. N. Confalone, G. Pizzolato, E. G. Baggolini, D. Lollar and M. R. Uskokovic, *J. Amer. Chem. Soc.*, 1975, **97**, 5936.
- O. Cervinka, A. Fabryova and F. Strejcek, *Coll. Czech. Chem. Comm.*, 1975, **40**, 3183.
- G. Snatzke, F. Snatzke, A. L. Tókés, M. Rákosi and R. Bognár, *Tetrahedron*, 1973, **29**, 909.



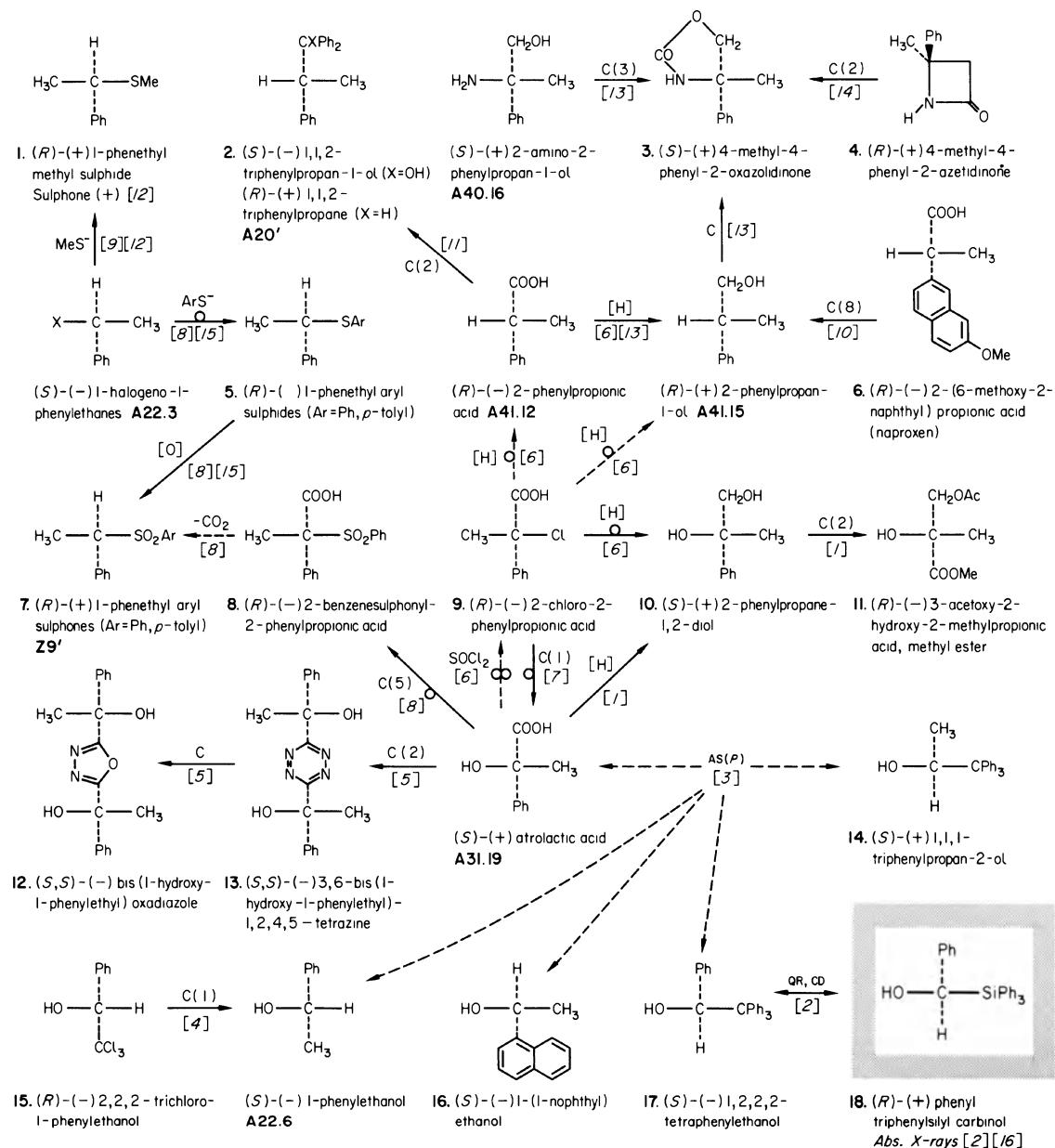
- M. Kumagai, H. Naganawa, T. Aoyagi, H. Umezawa, H. Nakamura and Y. Iitaka, *J. Antibiotics (Japan)*, 1975, **28**, 876.
- W. Aschwanden, E. Kyburz and P. Schönholzer, *Helv. Chim. Acta*, 1976, **59**, 1245.
- C. van Rij and D. Feil, *Tetrahedron*, 1973, **29**, 1891.
- A. Meyerhöffer, *J. Medicin. Pharmaceut. Chem.*, 1972, **15**, 994.
- R. W. Baker and P. J. Pauling, *J. Chem. Soc., Perkin II*, 1972, 2340.
- T. J. Petcher, J. Schmutz, H.-P. Weber and T. G. White, *Experientia*, 1975, **31**, 1389.
- K. Kamiya, Y. Wada, H. Nomura, M. Nishikawa and S. Morimoto, *Chem. Pharm. Bull. (Japan)*, 1973, **21**, 1037.
- G. Mohr, A. W. Frahm and F. Zymalkowski, *Annalen*, 1972, **756**, 103.
- A. Brossi, A. Focella and S. Teitel, *J. Medicin. Pharmaceut. Chem.*, 1973, **16**, 418.
- A. N. Chekhlov, Yu. P. Struchkov and A. I. Kitaigorodsky, *Cryst. Struct. Comm.*, 1974, **3**, 273.
- B. Hegedüs, A. F. Krassó, K. Noack and P. Zeller, *Helv. Chim. Acta*, 1975, **58**, 147.
- G. Koyama, H. Nakamura, Y. Murakami, T. Takita, K. Maeda, H. Umezawa and Y. Iitaka, *J. Antibiotics (Japan)*, 1973, **26**, 109.
- G. Vetuschi, A. Ottolino and V. Tortorella, *Gazzetta*, 1975, **105**, 935.



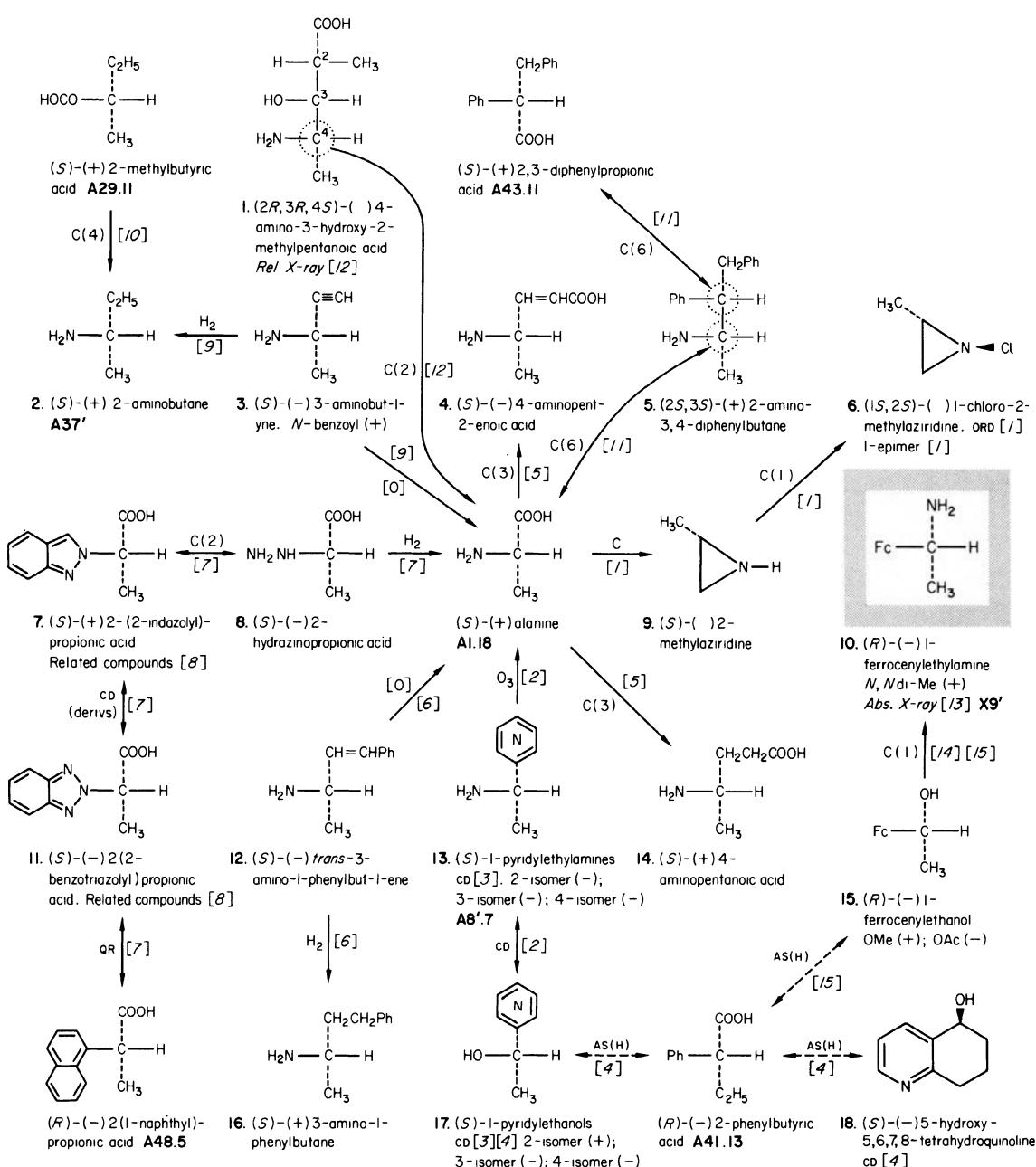
- M. Kobayashi, K. Koga and S. Yamada, *Chem. Pharm. Bull. Japan*, 1972, **20**, 1898.
- D. H. R. Barton, B. D. Brown, D. D. Ridley, D. A. Widdowson, A. J. Keys, and C. J. Leaver, *J. Chem. Soc., Perkin I*, 1975, 2069.
- D. Behr, J. Dahmen and K. Leander, *Acta Chem. Scand. (B)*, 1976, **30**, 309.
- W. L. Nelson and C. E. Wood, *Chem. Comm.*, 1973, 896.
- B. Belleau and J. Puranen, *J. Medicin. Pharmaceut. Chem.*, 1963, **6**, 325.
- See p. A14.
- T. Kemmer, W. S. Sheldrick and H. Brockmann, *Angew. Chem. Internat. Edn.*, 1976, **15**, 115.
- L. H. Klemm, W. Stalick and D. Bradway, *Tetrahedron*, 1964, **20**, 1667.
- M. R. Ord, C. M. Piggott and V. Thaller, *J. Chem. Soc., Perkin I*, 1975, 687.
- F. Bohlmann and G. Grau, *Chem. Ber.*, 1965, **98**, 2608.
- K. Mori, *Tetrahedron Letters*, 1976, 1609.
- G. T. DeTitta and B. M. Craven, *Acta Cryst.*, 1973, **B29**, 1354.
- E. Baer and H. C. Stancer, *J. Amer. Chem. Soc.*, 1953, **75**, 4510.
- S. Brandänge, S. Josephson and S. Vallen, *Acta Chem. Scand.*, 1973, **27**, 3668.



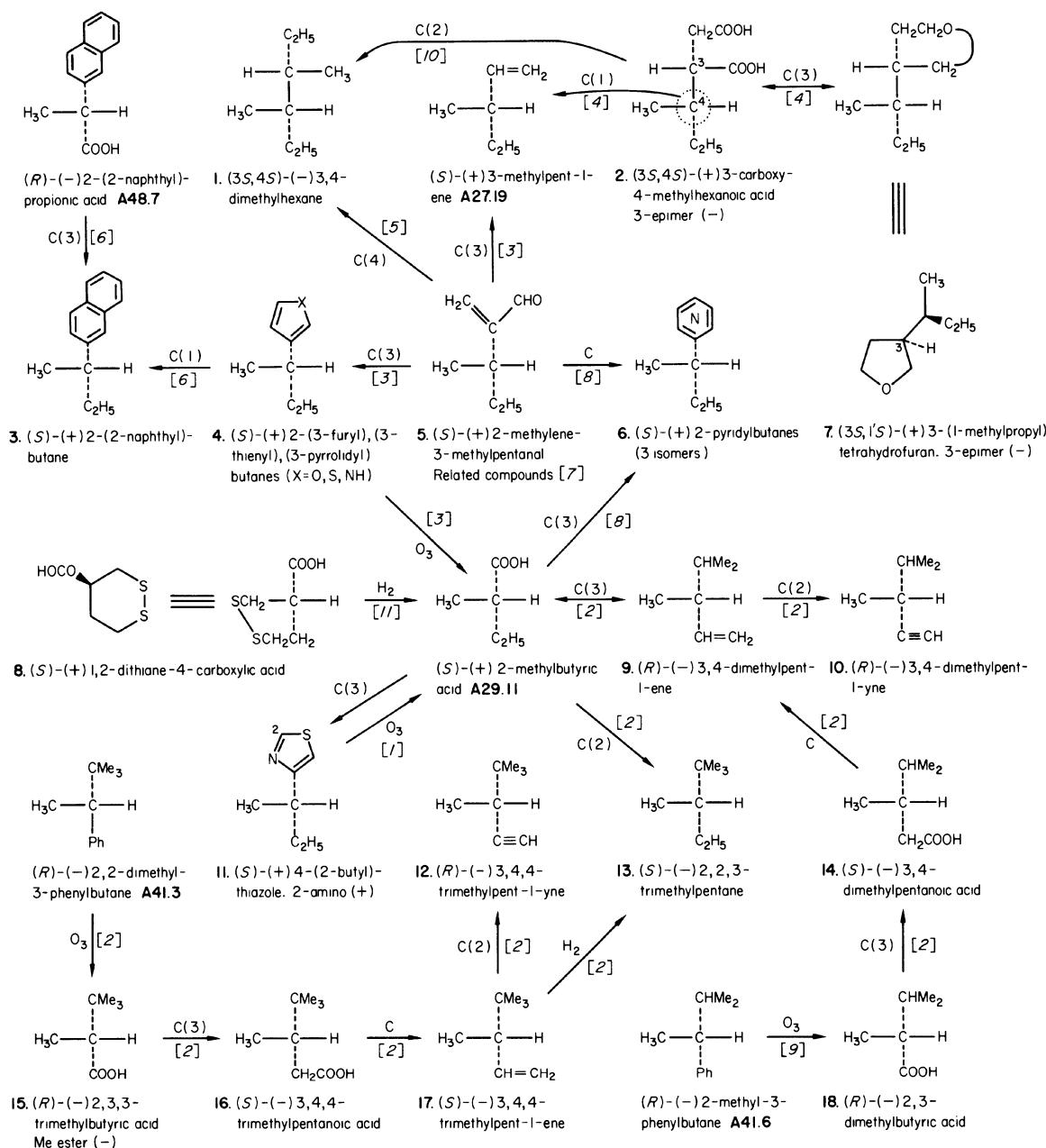
- P. M. Boll, E. Sorensen and E. Balieu, *Acta Chem. Scand.*, 1968, **22**, 3251.
- P. M. Boll, *Acta Chem. Scand.*, 1968, **22**, 3245.
- M. H. Benn and L. J. Yelland, *Canad. J. Chem.*, 1968, **46**, 729.
- C. Toniolo, V. Perciaccante, J. Falsetta, R. Rupp and M. Goodman, *J. Org. Chem.*, 1970, **35**, 6.
- R. Paul, R. P. Williams and E. Cohen, *J. Org. Chem.*, 1975, **40**, 1653.
- M. Dukes and L. H. Smith, *J. Medicin. Pharmaceut. Chem.*, 1971, **14**, 326.
- W. Adam and N. Duran, *J. Org. Chem.*, 1973, **38**, 1434.
- M. Onda, Y. Konda, S. Omura and T. Hata, *Chem. Pharm. Bull. (Japan)*, 1971, **19**, 2013.
- J. L. Bloomer and F. E. Kappler, *J. Org. Chem.*, 1974, **39**, 113.
- G. W. Kirby, G. J. O'Loughlin and D. J. Robins, *Chem. Comm.*, 1975, 402.
- R. K. Kullnig, C. L. Rosano, M. E. Coulter and C. Hurwitz, *J. Biol. Chem.*, 1973, **248**, 2487.



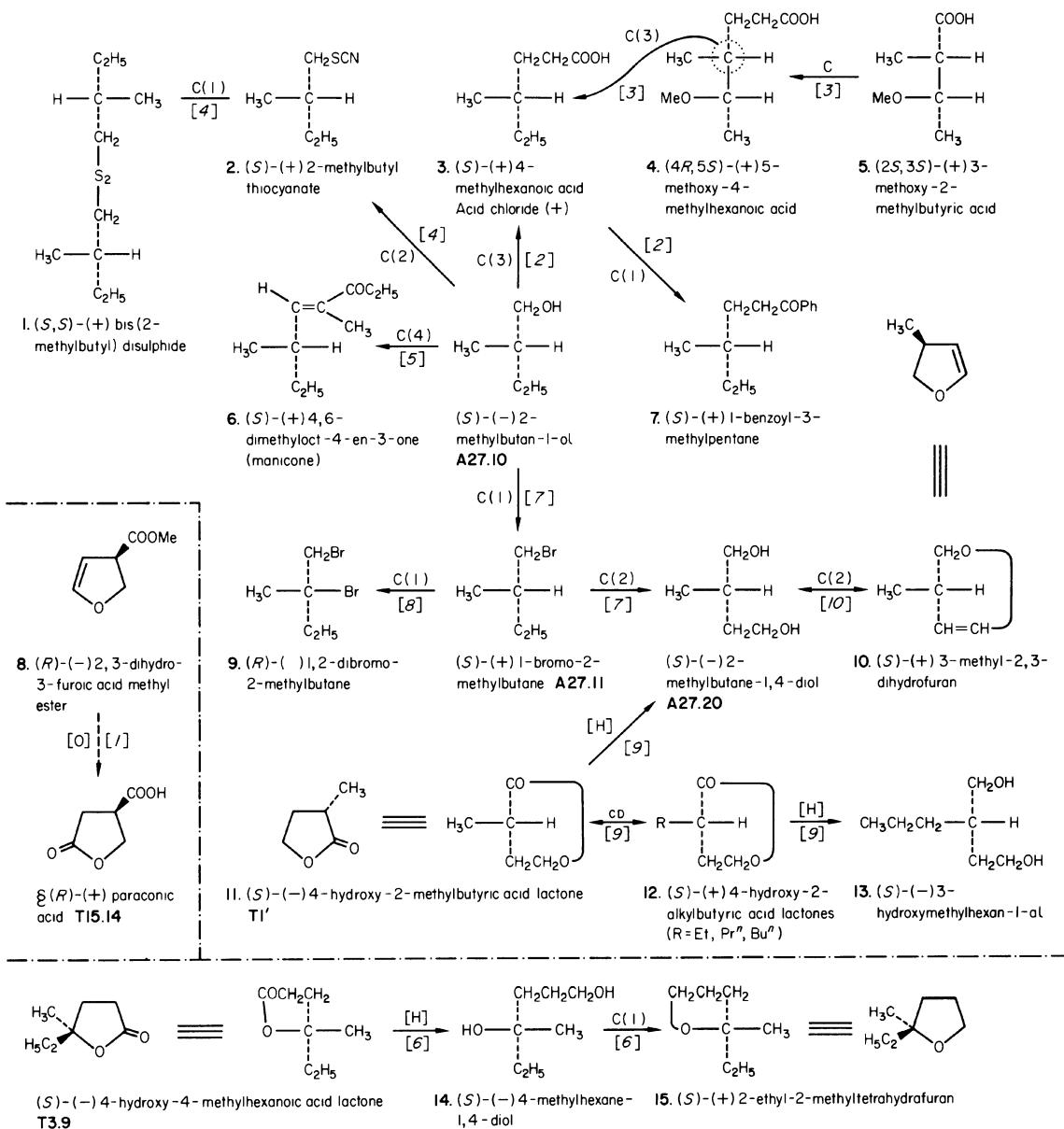
- F. L. Shore and G. U. Yuen, *J. Org. Chem.*, 1972, **37**, 3703.
- M. S. Biernbaum and H. S. Mosher, *J. Org. Chem.*, 1971, **36**, 3168.
- V. Prelog, E. Philbin, E. Watanabe and M. Wilhelm, *Helv. Chim. Acta*, 1956, **39**, 1086.
- W. Reeve, R. J. Bianchi and J. R. McKee, *J. Org. Chem.*, 1975, **40**, 339.
- D. G. Neilson, S. Mahmood and K. M. Watson, *J. Chem. Soc., Perkin I*, 1973, 335.
- E. L. Eliel and J. P. Freeman, *J. Amer. Chem. Soc.*, 1952, **74**, 923.
- W. A. Cowdrey, E. D. Hughes, C. K. Ingold, S. Masterman and A. D. Scott, *J. Chem. Soc.*, 1937, 1252.
- E. J. Corey and T. H. Lowry, *Tetrahedron Letters*, 1965, 803.
- R. O. Hutchins, D. Masilamani and C. A. Maryanoff, *J. Org. Chem.*, 1976, **41**, 1071.
- J. Riegl, M. L. Maddox and I. T. Harrison, *J. Medicin. Pharmaceut. Chem.*, 1974, **17**, 377.
- I. Angres and H. E. Zieger, *J. Org. Chem.*, 1975, **40**, 1457.
- K. Nishihata and M. Nishio, *Chem. Comm.*, 1971, 958.
- S. Yamada, S. Terashima and K. Achiwa, *Chem. Pharm. Bull. (Japan)*, 1966, **14**, 800.
- H. Pietsch, *Tetrahedron Letters*, 1972, 2789.
- M. Nishio and K. Nishihata, *Chem. Comm.*, 1970, 1485.
- K. T. Black and H. Hope, *J. Amer. Chem. Soc.*, 1971, **93**, 3053.



- R. G. Kostyanovsky, I. V. Markov and I. M. Gella, *Tetrahedron Letters*, 1972, 1301.
- O. Cervinka, O. Belovsky and P. Rejmanova, *Z. Chem.*, 1970, 10, 69.
- H. E. Smith, L. J. Schaad, R. B. Banks, C. J. Wiant and C. F. Jordan, *J. Amer. Chem. Soc.*, 1973, 95, 811.
- G. Gottarelli and B. Samori, *Tetrahedron Letters*, 1970, 2055.
- K. Balenovic and D. Cerar, *J. Chem. Soc.*, 1955, 1631.
- Y. Yamamoto, J. Oda and Y. Inouye, *Bull. Chem. Soc. Japan*, 1975, 48, 3744.
- H. Gustafsson, *Acta Chem. Scand.*, 1975, B29, 93, 177; H. Gustafsson and A. Fredga, *ibid.*, 1974, B28, 962.
- H. Gustafsson, H. Ericsson and S. Linqvist, *Acta Chem. Scand.*, 1974, B28, 1069.
- A. Lindquist, B. Ringdahl, O. Svensson and R. Dahlbom, *Acta Chem. Scand.*, 1976, B30, 517.
- A. Kjaer and S. E. Hansen, *Acta Chem. Scand.*, 1957, 11, 898.
- S. H. Pines, J. M. Chemberda, M. A. Kozlowski, L. M. Weinstock, P. Davis, B. Handelman, V. J. Grenda and G. W. Lindberg, *J. Medicin. Pharmaceut. Chem.*, 1967, 10, 725.
- H. Nakamura, T. Takita, H. Umezawa, Y. Muraoka and Y. Itaka, *J. Antibiotics (Japan)*, 1974, 27, 352, and refs. therein.
- L. F. Battelle, R. Bau, G. W. Gokel, R. T. Oyakawa and I. Ugi, *Angew. Chem., Internat. Edn.*, 1972, 11, 138.
- G. W. Gokel, D. Marquarding and I. Ugi, *J. Org. Chem.*, 1972, 37, 3052.
- P. Dixneuf and R. Dabard, *Bull. Soc. chim. France*, 1972, 2847.



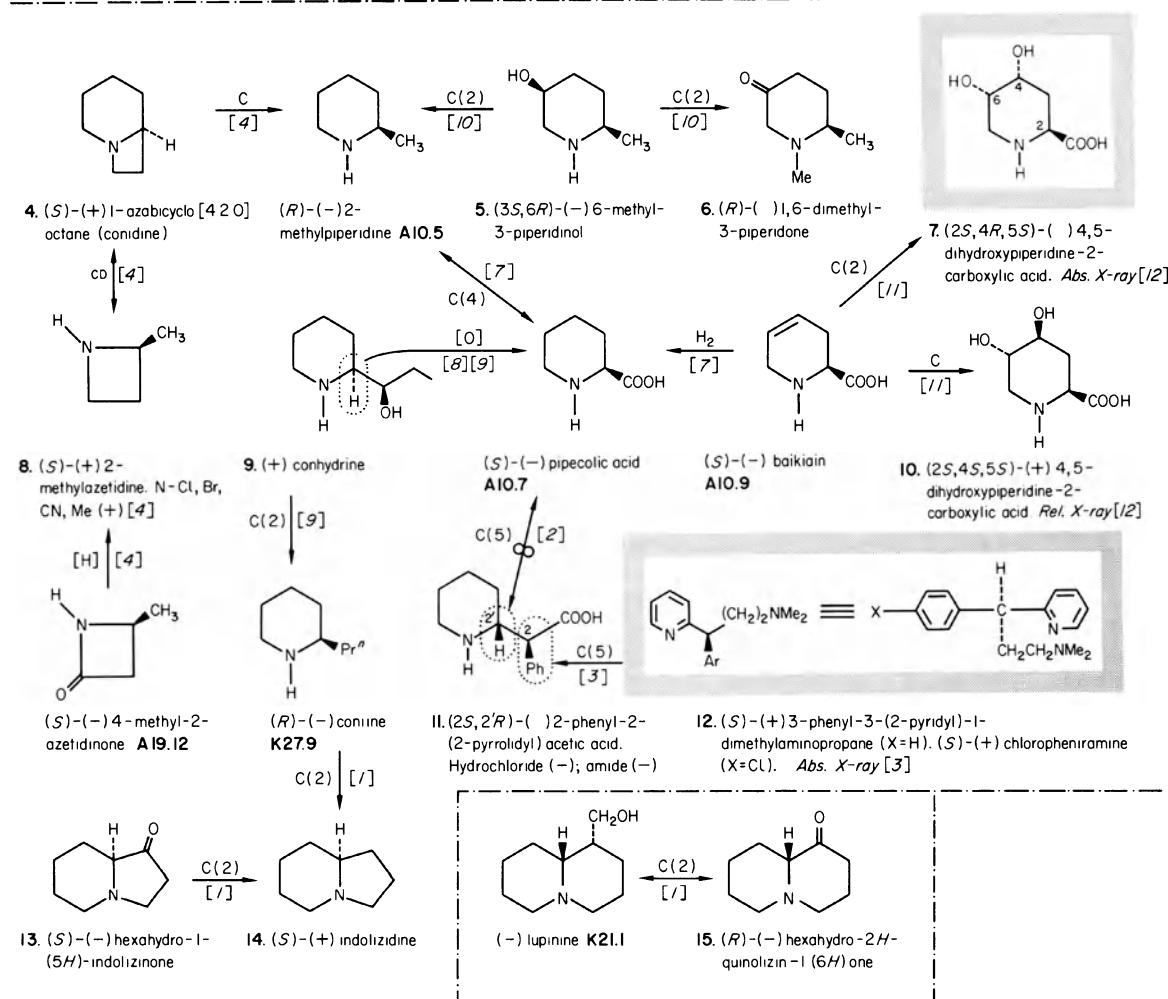
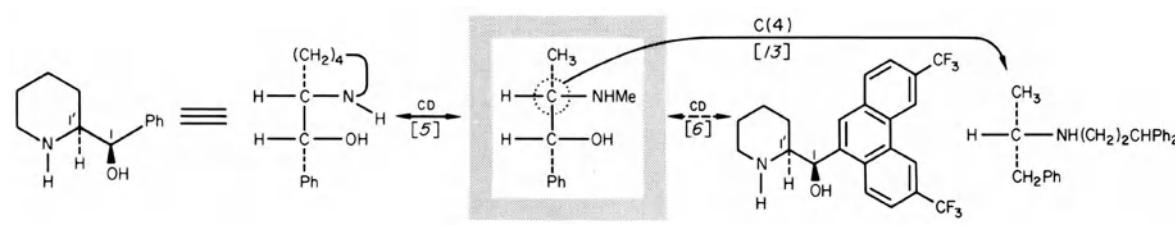
- Lardicci, C. Battistini and R. Menicagli, *J. Chem. Soc., Perkin I*, 1974, 344.
- Lardicci, R. Menicagli, A. M. Caporosso and G. Giacomelli, *Chem. and Ind.*, 1973, 184.
- C. Botteghi, L. Lardicci and R. Menicagli, *J. Org. Chem.*, 1973, 38, 2361.
- C. Botteghi, G. Ceccarelli and G. Consiglio, *J. prakt. Chem.*, 1972, 314, 840.
- R. Rossi and E. Benedetti, *Gazzetta*, 1966, 96, 483.
- R. Menicagli, L. Lardicci and C. Botteghi, *Chem. and Ind.*, 1974, 920.
- L. Lardicci, F. Navari and R. Rossi, *Tetrahedron*, 1966, 22, 1991.
- D. Tatone, T. C. Dich, R. Nacco and D. Botteghi, *J. Org. Chem.*, 1975, 40, 2987.
- M. Calas, B. Calas and L. Giral, *Bull. Soc. chim. France*, 1976, 857.
- D. Pini, D. Lupinacci and L. Porri, *Gazzetta*, 1974, 104, 1295.
- G. Claeson, *Acta Chem. Scand.*, 1968, 22, 2429.



- T. Kinoshita and T. Miwa, *Chem. Comm.*, 1974, 181.
- P. J. Wagner, P. A. Kelso and R. G. Zepp, *J. Amer. Chem. Soc.*, 1972, **94**, 7480.
- K. Maskens and N. Polgar, *J. Chem. Soc., Perkin I*, 1973, 1909.
- J. P. Casey and R. B. Martin, *J. Amer. Chem. Soc.*, 1972, **94**, 6141.
- K. Banno and T. Mukaiyama, *Chem. Letters*, 1976, 279.
- J. Jacobus, *J. Org. Chem.*, 1973, **38**, 402.
- See p. A20.
- K. J. Shea and P. S. Skell, *J. Amer. Chem. Soc.*, 1973, **95**, 283.
- A. I. Meyers and E. D. Mihelich, *J. Org. Chem.*, 1975, **40**, 1186.
- G. Botteghi, *Gazzetta*, 1975, **105**, 233.

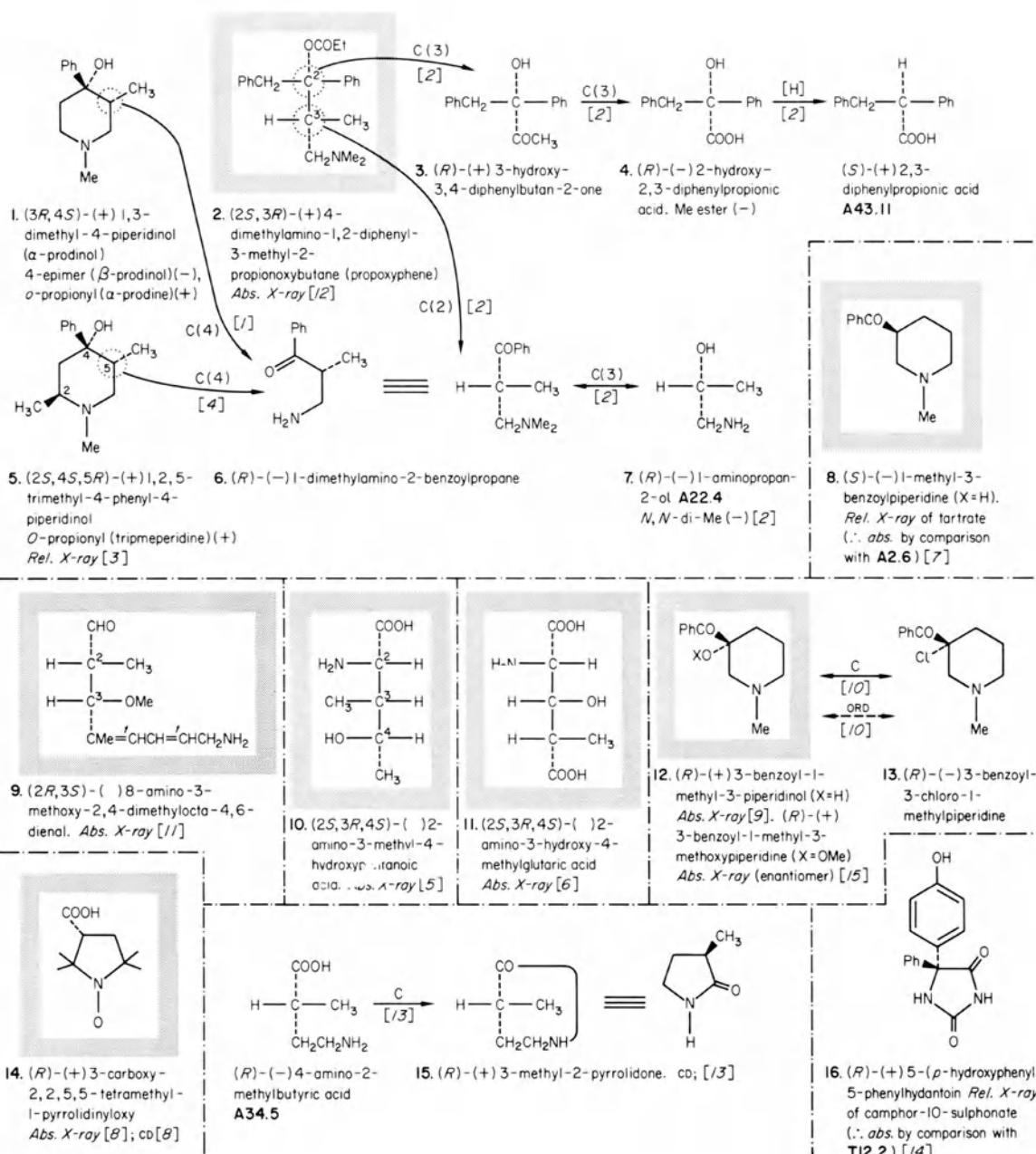
## Class 2a, 3a, 3b

## Piperidines and other N-heterocycles

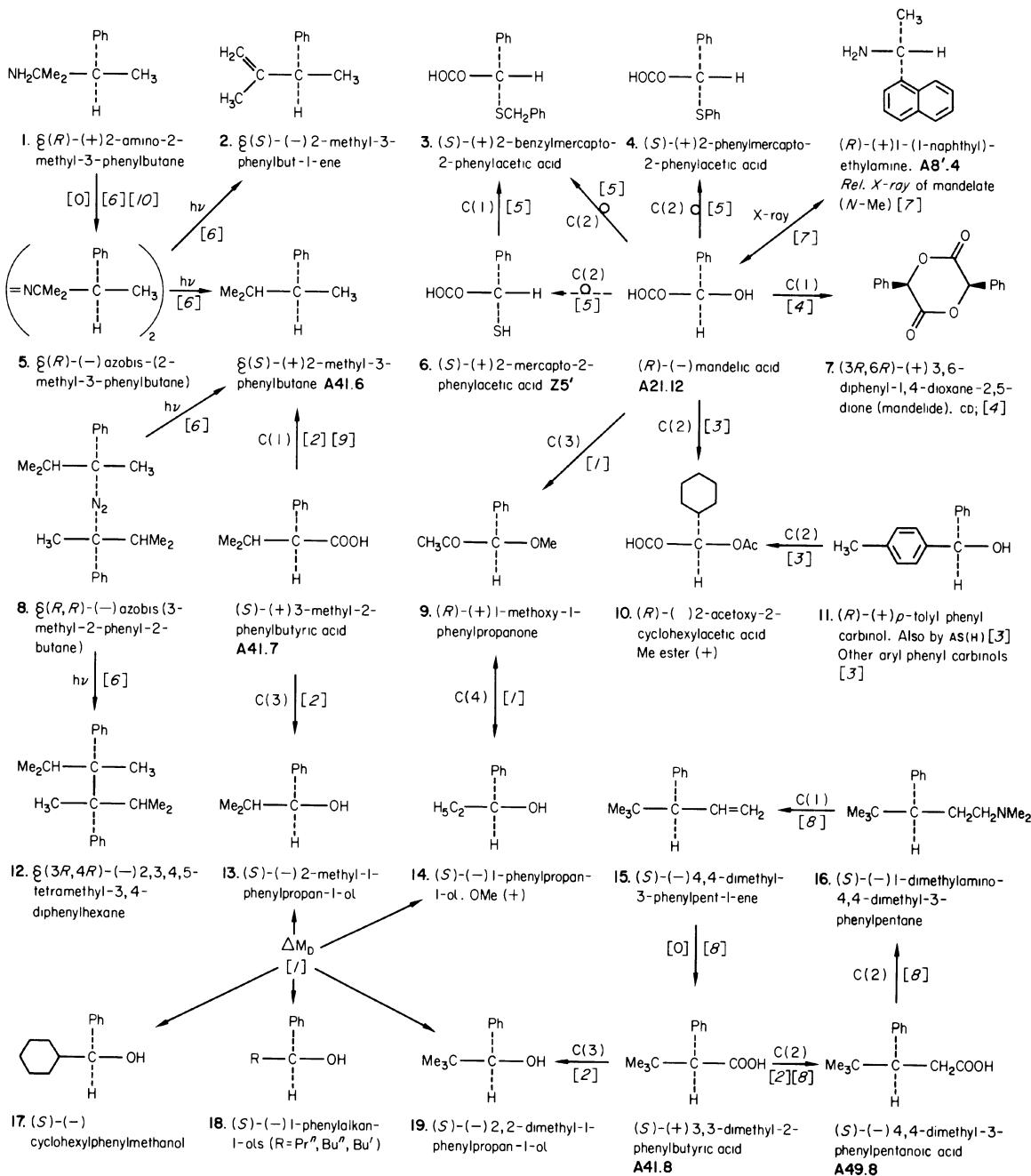


1. S. Yamada and T. Kunieda, *Chem. Pharm. Bull. Japan*, 1967, **15**, 491.
2. A. Shafiee and G. Hite, *J. Medicin. Pharmaceut. Chem.*, 1969, **12**, 266.
3. M. N. G. James and G. J. B. Williams, *Canad. J. Chem.*, 1974, **52**, 1872.
4. R. G. Kostyanovsky, I. M. Gella, V. I. Markov and Z. E. Samoilova, *Tetrahedron*, 1974, **30**, 39.
5. J. J. Fauley and J. B. LaPิดus, *J. Org. Chem.*, 1971, **36**, 3065.
6. F. I. Carroll and J. T. Blackwell, *Chem. and Ind.*, 1972, 574.
7. See p. A10.
8. R. Willstätter, *Ber.*, 1901, **34**, 3166.
9. W. Leithe, *Ber.*, 1932, **65**, 927.
10. M. M. Cook and C. Djerassi, *J. Amer. Chem. Soc.*, 1973, **95**, 3678.
11. M. Marlier, G. Dardenne and J. Casimir, *Phytochemistry*, 1976, **15**, 183.
12. G. Evrard, F. Durant and M. Marlier, *Crust. Struct. Comm.*, 1972, **1**, 215; *ibid*, 1974, **3**, 61.
13. M. Tomie, H. Sugimoto and N. Yoneda, *Chem. Pharm. Bull. Japan*, 1976, **24**, 1033.

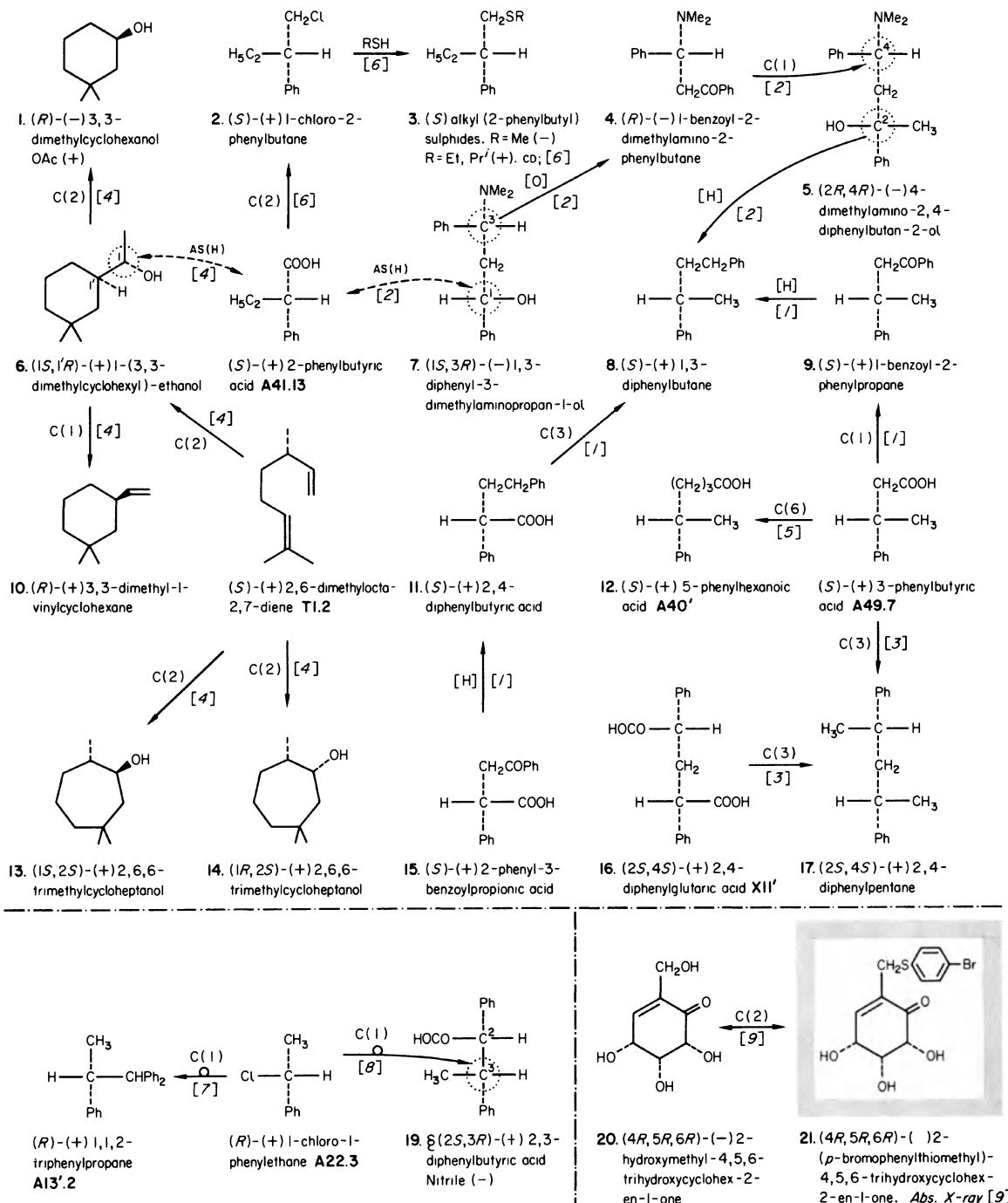
## Further N-heterocycles and carboxylic acids



- D. L. Larson and P. S. Portoghese, *J. Medicin. Pharmaceut. Chem.*, 1973, **16**, 195.
- H. R. Sullivan, J. R. Beck and A. Pohland, *J. Org. Chem.*, 1963, **28**, 2381.
- W. H. De Camp and F. R. Ahmed, *Acta Cryst.*, 1972, **B28**, 1791.
- D. Fries and P. S. Portoghese, *J. Medicin. Pharmaceut. Chem.* 1974, **17**, 990.
- A. Gieren, P. Narayanan, W. Hoppe, M. Hasan, K. Michl, T. Wieland, H. O. Smith, G. Jung and E. Breitmaier, *Annalen*, 1974, 1561.
- G. Evrard, F. Durant and G. A. Dardenne, *Cryst. Struct. Comm.*, 1974, **3**, 65.
- G. Hite and J. R. Soares, *Acta Cryst.*, 1973, **B29**, 2935.
- S. S. Ament, J. B. Wetherington, J. W. Moncrief, K. Flohr, M. Mochizuki and E. T. Kaiser, *J. Amer. Chem. Soc.*, 1973, **95**, 7896.
- G. Hite and B. M. Craven, *Acta Cryst.*, 1973, **B29**, 2929.
- H. Patel and G. Hite, *J. Org. Chem.*, 1965, **30**, 4336.
- H. Maehr, J. F. Blount, M. Leach and A. Stempel, *Helv. Chim. Acta*, 1974, **57**, 936.
- E. Bye, *Acta Chem. Scand.*, 1973, **27**, 3403.
- N. J. Greenfield and G. D. Fasman, *J. Amer. Chem. Soc.*, 1970, **92**, 177.
- J. H. Poupaert, R. Cavalier, M. H. Claesen and P. A. Dumont, *J. Medicin. Pharmaceut. Chem.*, 1975, **18**, 1268.
- J. R. Ruble, B. Blackmond and G. Hite, *Acta Cryst.*, 1976, **B32**, 132.



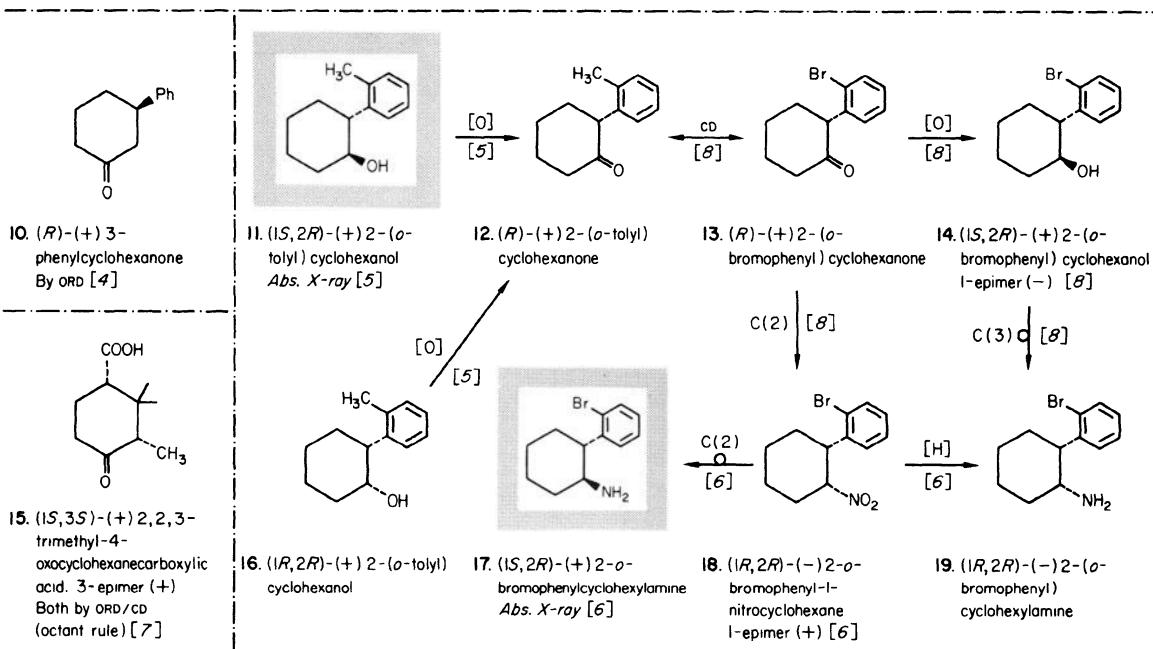
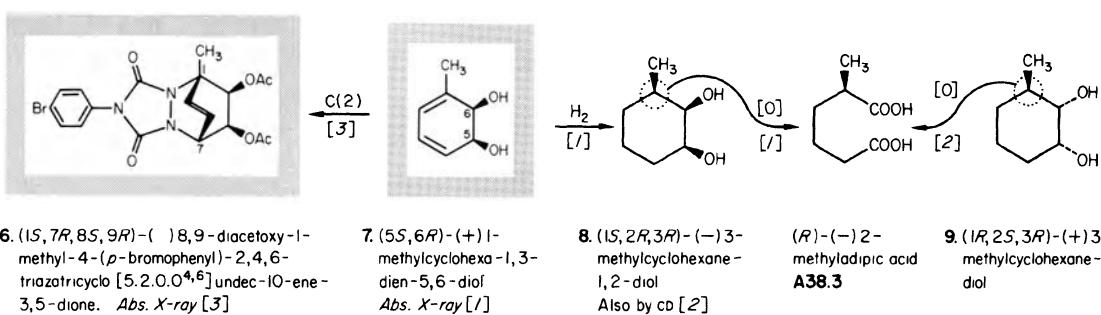
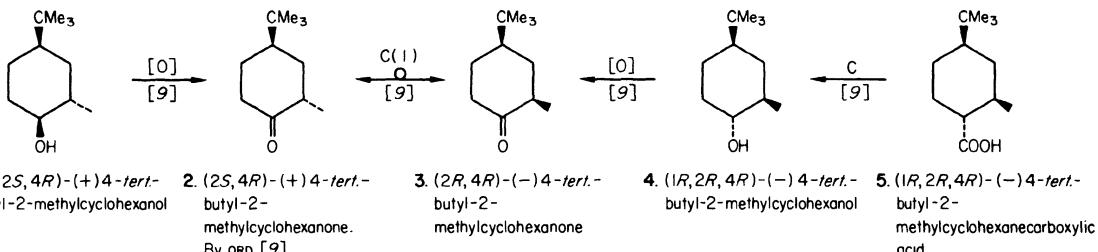
1. R. MacLeod, F. J. Welch and H. S. Mosher, *J. Amer. Chem. Soc.*, 1960, **82**, 876.
2. D. R. Clark and H. S. Mosher, *J. Org. Chem.*, 1970, **35**, 1114.
3. J.-P. Guetté, M. Perlat, J. Capillon and D. Boucherot, *Tetrahedron Letters*, 1974, **52**, 2411.
4. C. Toniolo, V. Perciaccante, J. Falsetta, R. Rupp and M. Goodman, *J. Org. Chem.*, 1970, **35**, 6.
5. W. A. Bonner, *J. Org. Chem.*, 1967, **32**, 2496; 1968, **33**, 1831.
6. M. J. Tremelling and J. M. McBride, *J. Org. Chem.*, 1972, **37**, 1073; 1973, **38**, 4217.
7. M. G. B. Drew, *Acta Cryst.*, 1969, **B25**, 1320.
8. L. Lardicci and R. Menicagli, *J. Org. Chem.*, 1972, **37**, 1060.
9. See p. A41.



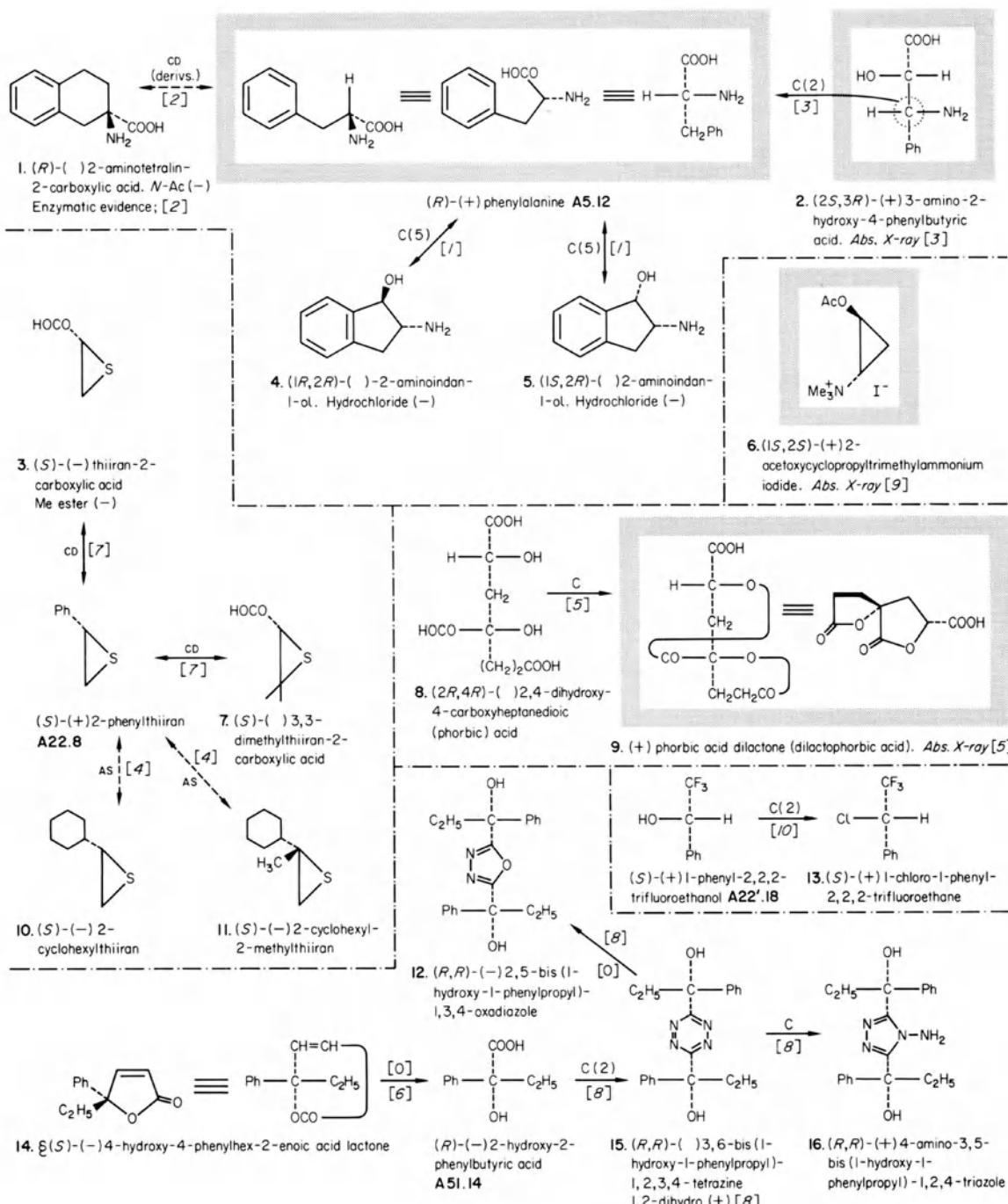
- C. Fouquey and J. Jacques, *Bull. Soc. chim. France*, 1973, 618.
- M. Tramontini, L. Angiolini, C. Fouquey and J. Jacques, *Tetrahedron*, 1973, 29, 4183.
- H. Tatemitsu, F. Ogura, Y. Nakagawa, M. Nakagawa, K. Naemura and M. Nakazaki, *Bull. Chem. Soc., Japan*, 1975, 48, 2473.
- H. R. Ansari, *Tetrahedron*, 1973, 29, 1559.
- T. D. Hoffman and D. J. Cram, *J. Amer. Chem. Soc.* 1969, 91, 1000.
- P. Biscarini, G. Gottarelli, B. Samori and G. D. Nivellini, *Tetrahedron*, 1972, 28, 4139.
- L. H. Sommer and W. D. Korte, *J. Org. Chem.*, 1970, 35, 22.
- W. J. Chambers, W. R. Brasen and C. R. Hauser, *J. Amer. Chem. Soc.*, 1957, 79, 879.
- H. Chimura, H. Nakamura, T. Takita, T. Takeuchi, H. Umezawa, K. Kato, S. Saito, T. Tomisawa and Y. Iitaka, *J. Antibiotics (Japan)*, 1975, 28, 743.

## Class 2a, 3a, 3b

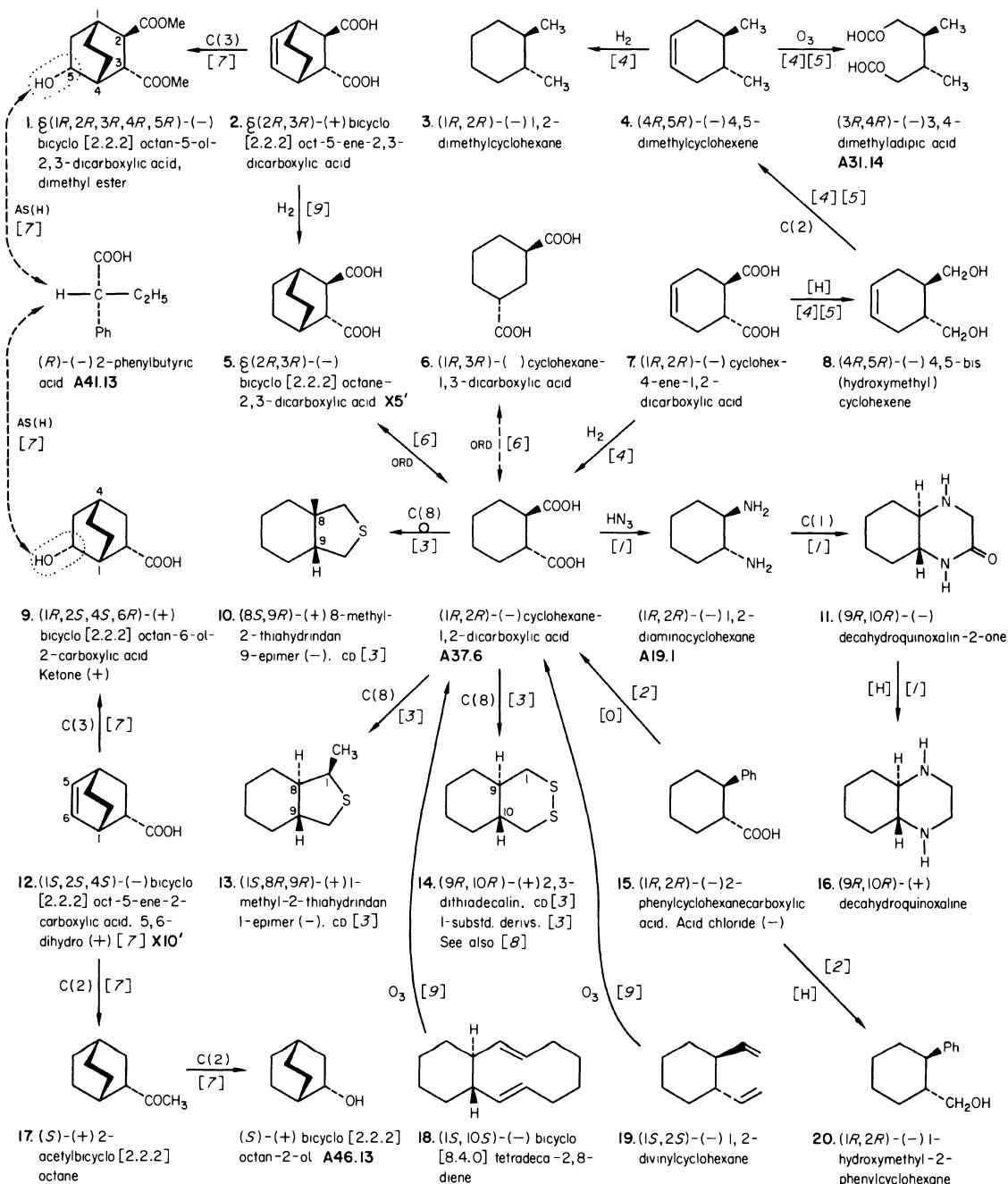
## Further cyclohexanes



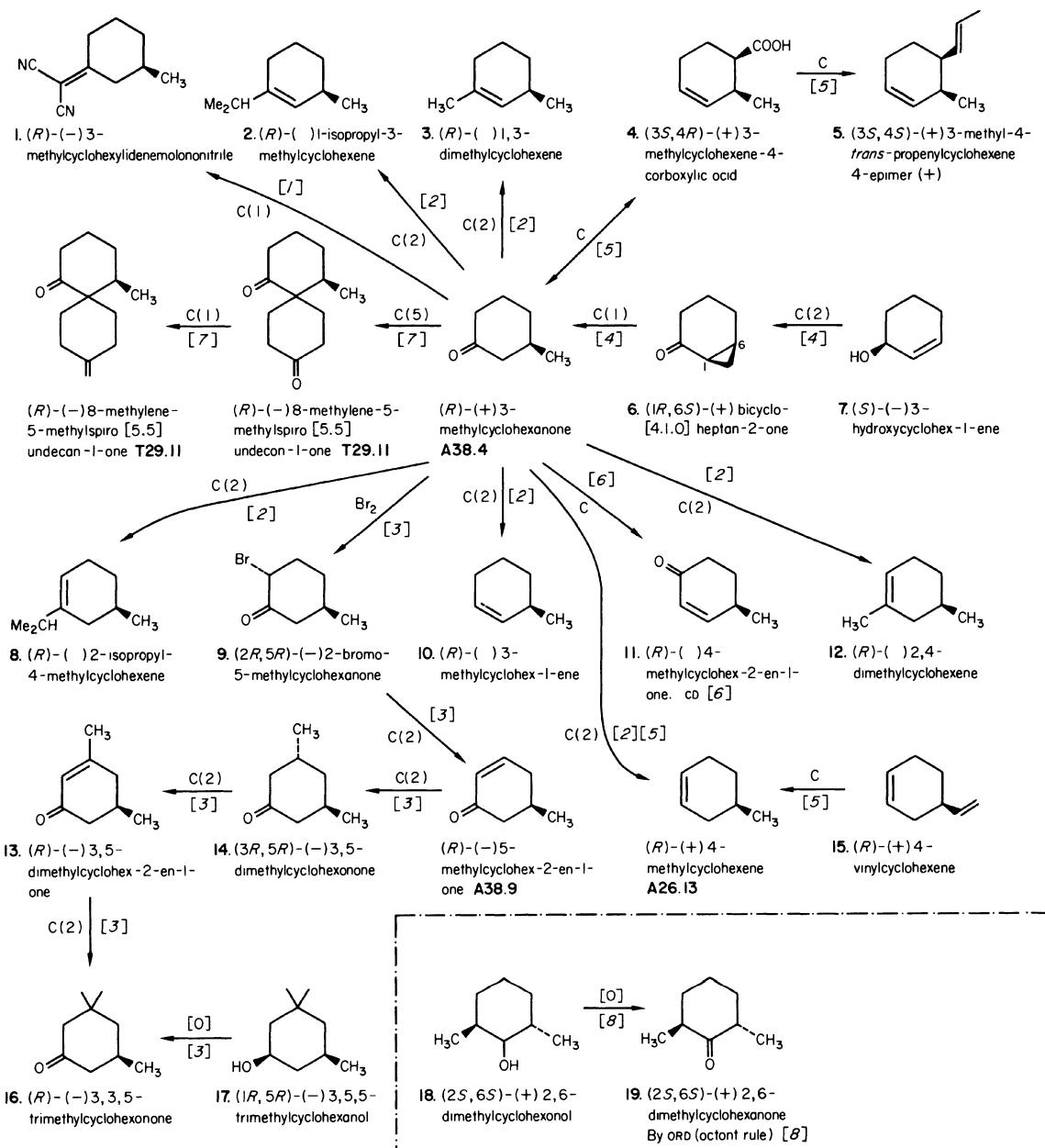
- H. Ziffer, D. M. Jerina, D. T. Gibson and V. M. Kobal, *J. Amer. Chem. Soc.*, 1973, **95**, 4048.
- H. Ziffer and D. T. Gibson, *Tetrahedron Letters*, 1975, 2137.
- V. M. Kobal, D. T. Gibson, R. E. Davis and A. Garza, *J. Amer. Chem. Soc.*, 1973, **95**, 4420.
- R. A. Kretchmer, *J. Org. Chem.*, 1972, **37**, 2744.
- A. Camerman, L. H. Jensen, T. G. Cochran and A. C. Huitric, *J. Pharm. Sci.*, 1970, **59**, 1675.
- T. G. Cochran, A. Weber, A. C. Huitric, A. Camerman and L. H. Jensen, *J. Org. Chem.*, 1976, **41**, 1640.
- J. de P. Teresa, I. S. Bellido and M. G. Benito, *Ann. Quim.*, 1973, **69**, 505.
- T. G. Cochran, D. V. Wareham and A. C. Huitric, *J. Pharm. Sci.*, 1971, **60**, 180.
- C. Beard, C. Djerassi, J. Sicher, F. Sipos and M. Tichy, *Tetrahedron*, 1963, **19**, 919.



- E. Dornhege, *Annalen*, 1971, 743, 42.
- M. S. Matta and M. F. Rohde, *J. Amer. Chem. Soc.*, 1972, 94, 8573.
- H. Nakamura, H. Suda, T. Takita, T. Aoyagi and H. Umezawa, *J. Antibiotics (Japan)*, 1976, 29, 100; 102.
- A. I. Meyers and M. E. Ford, *J. Org. Chem.*, 1976, 41, 1735.
- E. Rosenqvist, *Acta Chem. Scand.*, 1971, 25, 3111.
- G. Kresze, L. Kloimstein and W. Runge, *Annalen*, 1976, 979.
- C. D. Maycock and R. J. Stoodley, *Chem. Comm.*, 1976, 234.
- D. G. Neilson, S. Mahmood and K. M. Watson, *J. Chem. Soc., Perkin I*, 1973, 335.
- C. Chothia and P. Pauling, *Nature*, 1970, 226, 541.
- J. K. Stille and R. W. Fries, *J. Amer. Chem. Soc.*, 1974, 96, 1514.



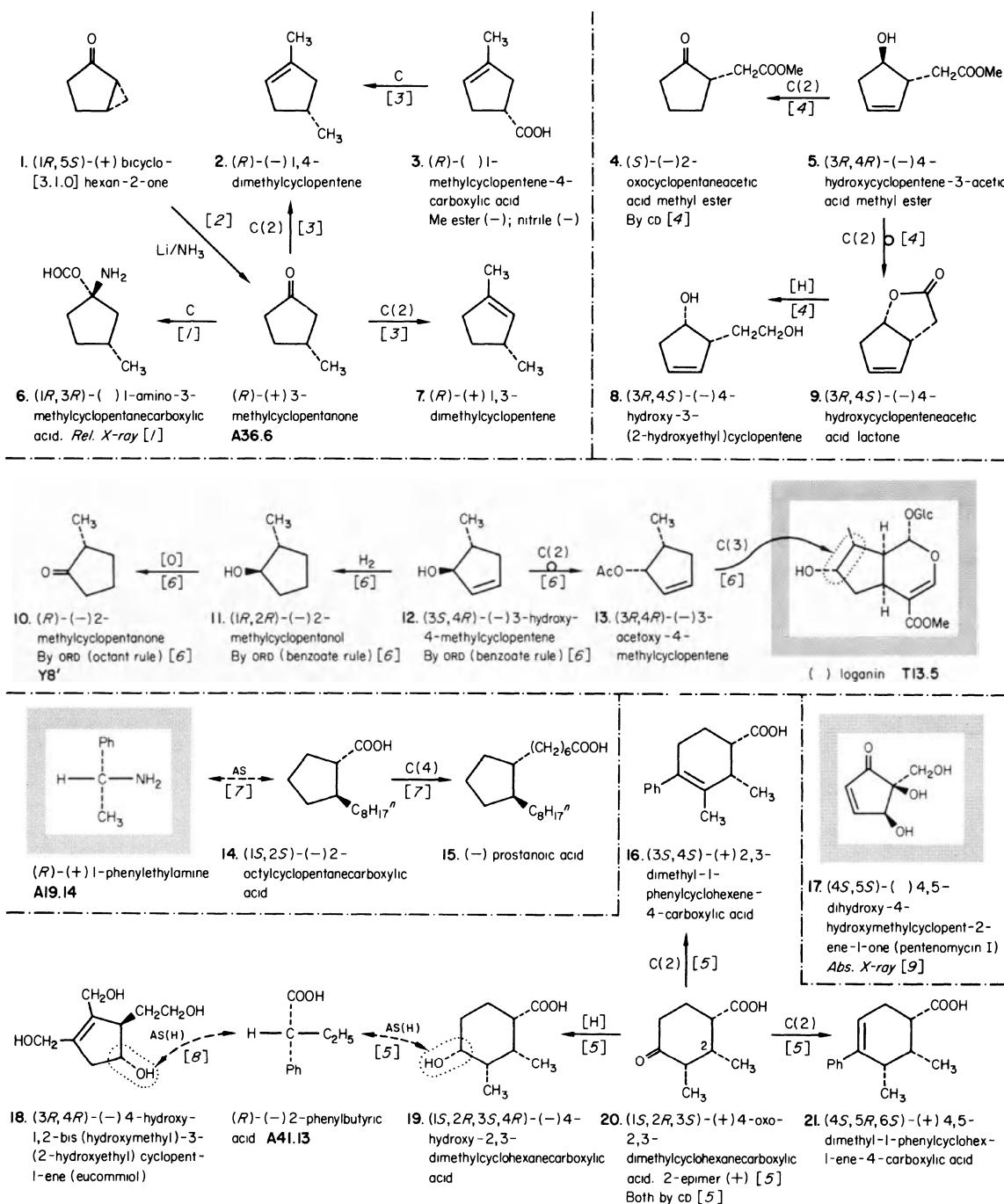
- D. Gracian and H. P. Schultz, *J. Org. Chem.*, 1971, **36**, 3989.
- L. Verbit and H. C. Price, *J. Amer. Chem. Soc.*, 1972, **94**, 5143.
- S. Hagishita and K. Kuriyama, *J. Chem. Soc., Perkin II*, 1974, 686.
- H. M. Walborsky, L. Barash and T. C. Davis, *Tetrahedron*, 1963, **19**, 2333.
- W. C. M. C. Kokke and F. A. Varkeyisser, *J. Org. Chem.*, 1974, **39**, 1535.
- G. Montaudo and C. G. Overberger, *J. Amer. Chem. Soc.*, 1969, **91**, 753.
- D. Varech and J. Jacques, *Tetrahedron*, 1972, **28**, 5671.
- J. P. Casey and R. B. Martin, *J. Amer. Chem. Soc.*, 1972, **94**, 6141.
- P. S. Wharton and D. W. Johnson, *J. Org. Chem.*, 1973, **38**, 4117.



1. F. S. Prout, V. D. Beaucaire, G. R. Dykacz, W. M. Koppes, R. E. Kuznicki, T. A. Marlewski, J. J. Pienkowski and J. M. Puda, *J. Org. Chem.*, 1973, **38**, 1512.
2. N. H. Andersen, C. R. Costin and J. R. Shaw, *J. Amer. Chem. Soc.*, 1974, **96**, 3692.
3. N. L. Allinger and C. K. Riew, *J. Org. Chem.*, 1975, **40**, 1316.
4. R. K. Hill and J. W. Morgan, *J. Org. Chem.*, 1968, **33**, 927.
5. J. A. Berson and P. B. Dervan, *J. Amer. Chem. Soc.*, 1973, **95**, 267; 269.
6. J. Barieux, J. Gore and M. Subit, *Tetrahedron Letters*, 1975, 1835.
7. I. G. Guest, C. R. Hughes, R. Ramage and A. Sattar, *Chem. Comm.*, 1973, 526.
8. C. Beard, C. Djerassi, J. Sicher, F. Sipos and M. Tichy, *Tetrahedron*, 1963, **19**, 919.

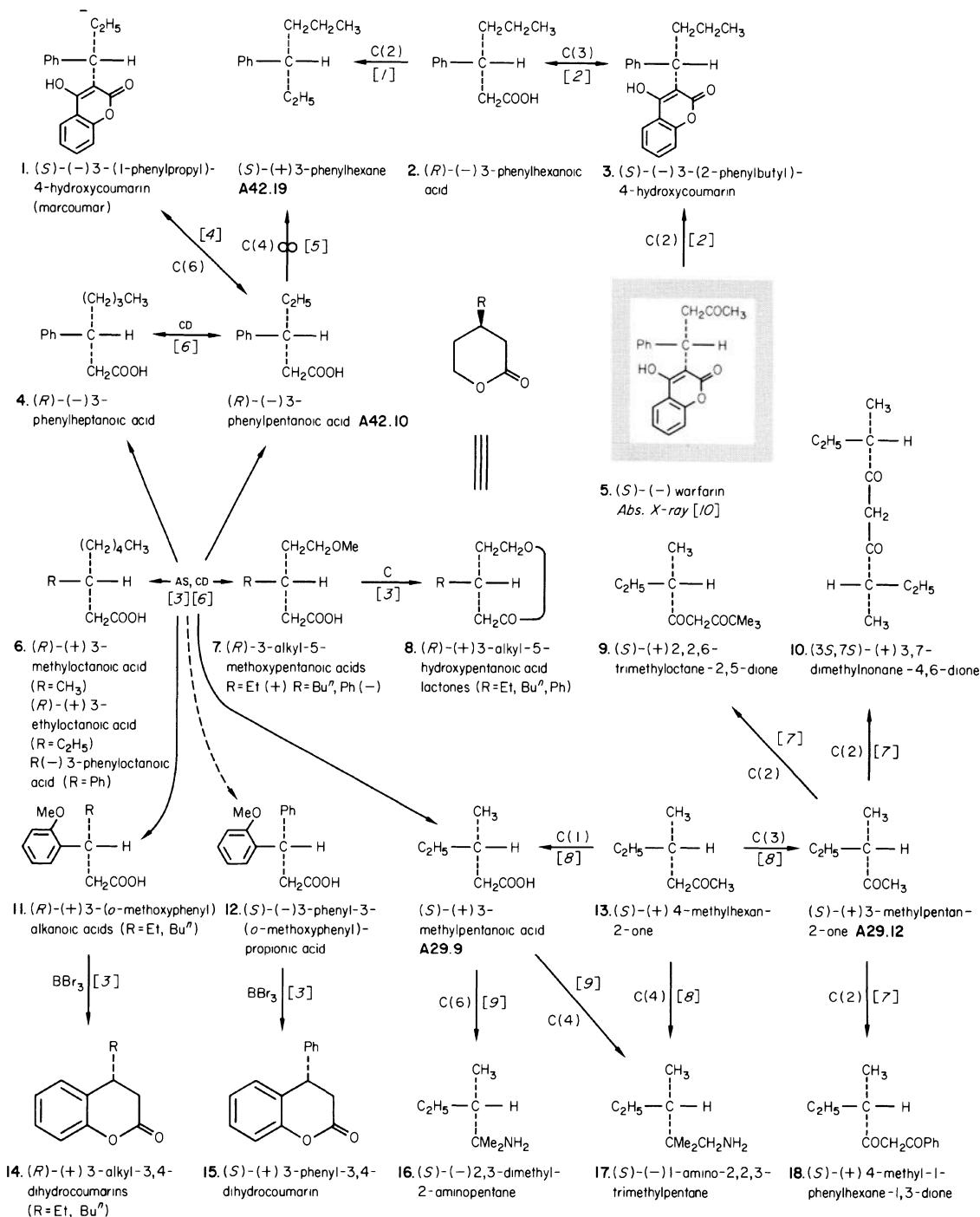
## Class 3a

## Cyclopentanes and cyclohexanes

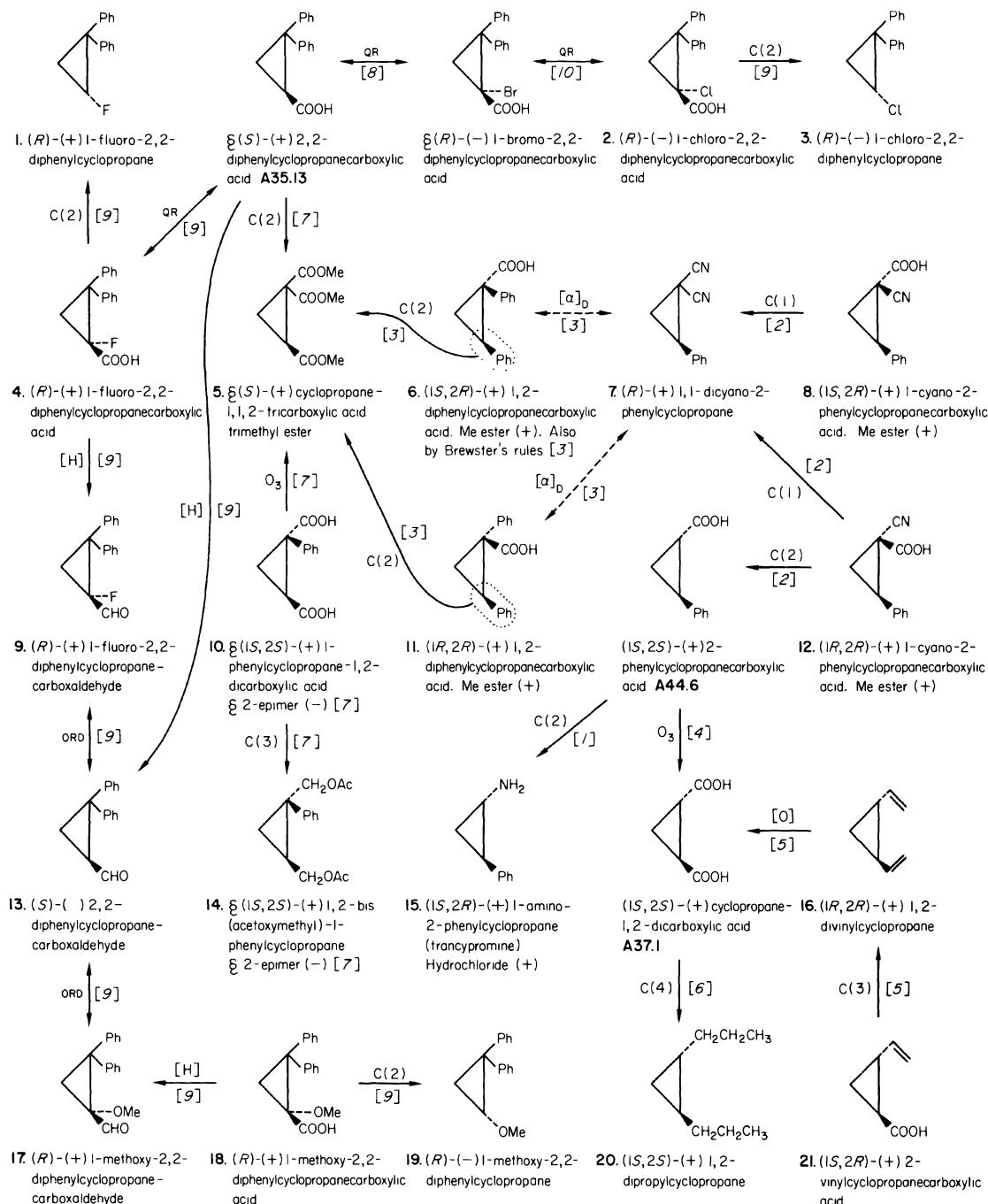


- H. L. Carrell, B. Gallen and J. P. Glusker, *Acta Cryst.*, 1973, B29, 2580.
- D. A. Lightner and D. E. Jackman, *Tetrahedron Letters*, 1975, 3051.
- W. von E. Doering and K. Sachdev, *J. Amer. Chem. Soc.*, 1975, 97, 5512.
- J. J. Partridge, N. K. Chadha and M. R. Uskokovic, *J. Amer. Chem. Soc.*, 1973, 95, 7171.
- C. Fouquey, L. Lacombe, J. Jacques and G. Azadian-Boulanger, *Bull. Soc. chim. France*, 1976, 469.
- J. J. Partridge, N. K. Chadha and M. R. Uskokovic, *J. Amer. Chem. Soc.*, 1973, 95, 532.
- A. Hamon, B. Lacoume, A. Olivier and W. R. Pilgrim, *Tetrahedron Letters*, 1975, 4481.
- A. Bianco, C. Iavarone and C. Trogolo, *Tetrahedron*, 1974, 30, 4117.
- T. Date, K. Aoe, K. Kotera and K. Umino, *Chem. Pharm. Bull. (Japan)*, 1974, 22, 1963.

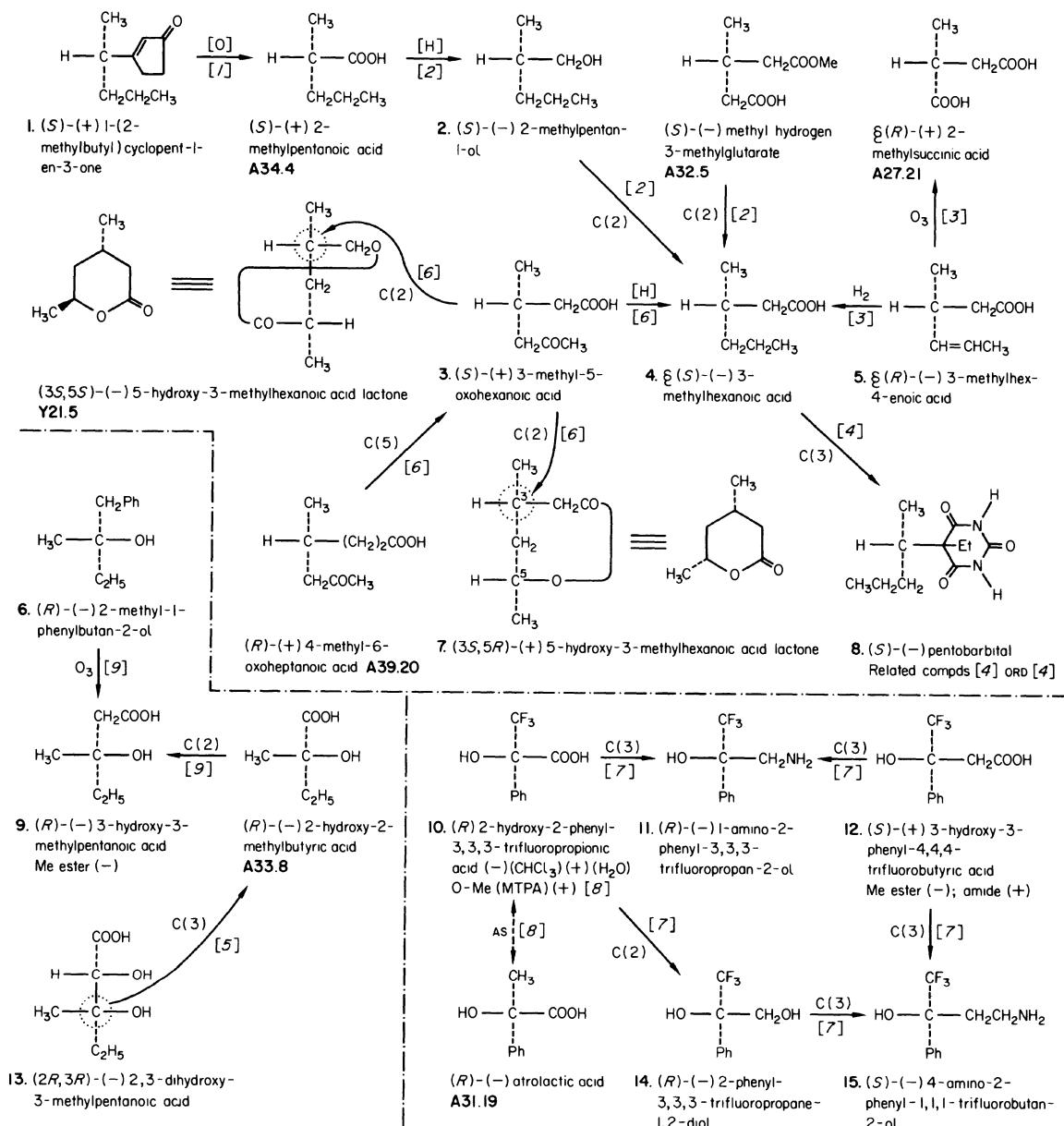
## Branched-chain aromatic acids and related compounds



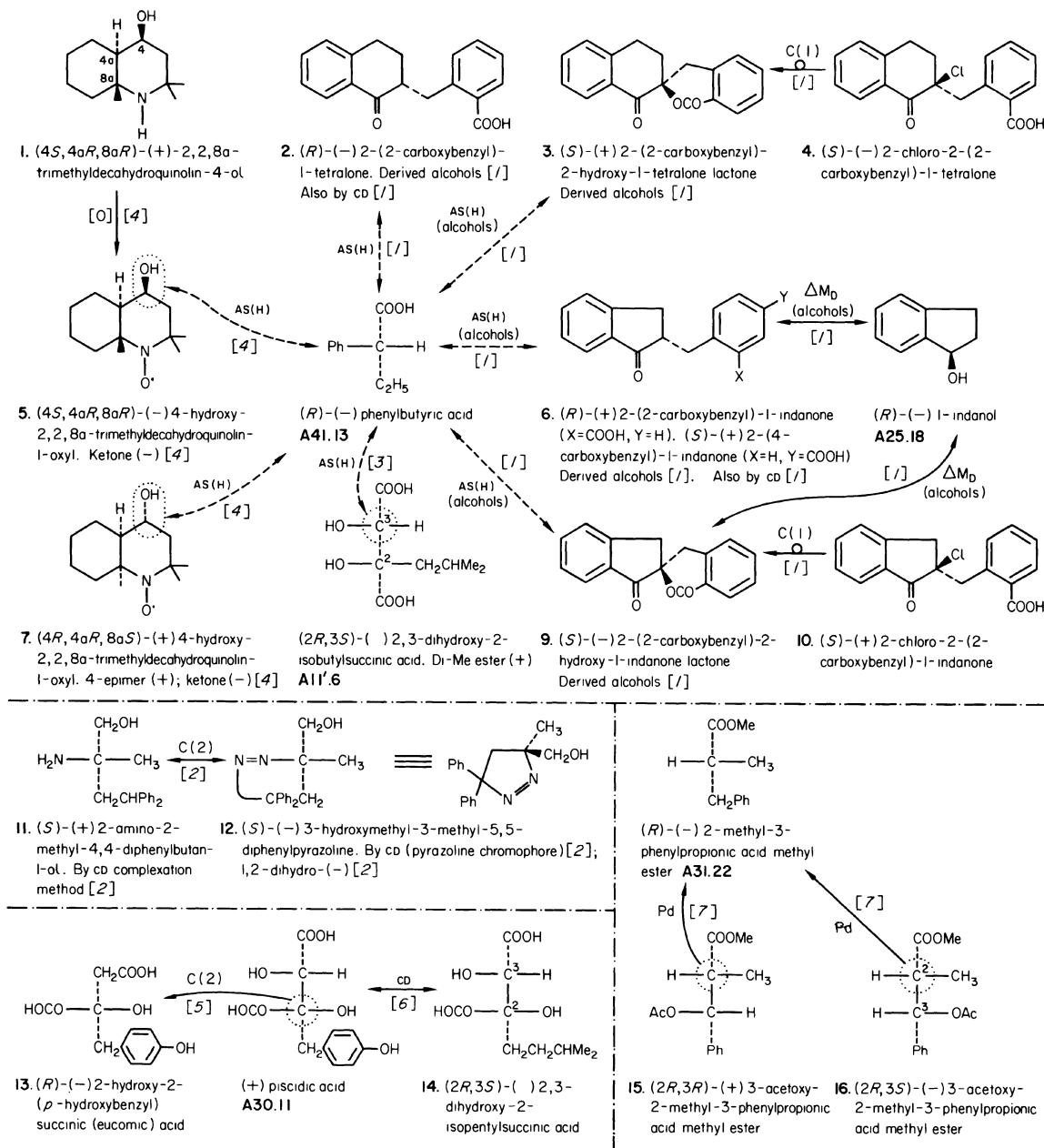
- P. A. Levene and R. E. Marker, *J. Biol. Chem.*, 1932, **97**, 565.
- B. D. West, S. Preis, C. H. Schroeder and K. P. Link, *J. Amer. Chem. Soc.*, 1961, **83**, 2677.
- A. I. Meyers and C. E. Whitten, *Tetrahedron Letters*, 1976, 1947.
- B. D. West and K. P. Link, *J. Heterocyclic Chem.*, 1965, **2**, 93.
- See p. A42.
- A. I. Meyers and C. E. Whitten, *J. Amer. Chem. Soc.*, 1975, **97**, 6266.
- D. Seebach and V. Ehrig, *Angew. Chem. Internat. Edn.*, 1972, **11**, 127.
- W. Kirmse and W. Gruber, *Chem. Ber.*, 1973, **106**, 1365.
- W. Kirmse, W. Gruber and J. Knist, *Chem. Ber.*, 1973, **106**, 1376.
- E. J. Valente, W. F. Trager and L. H. Jensen, *Acta Cryst.*, 1975, **B31**, 954.



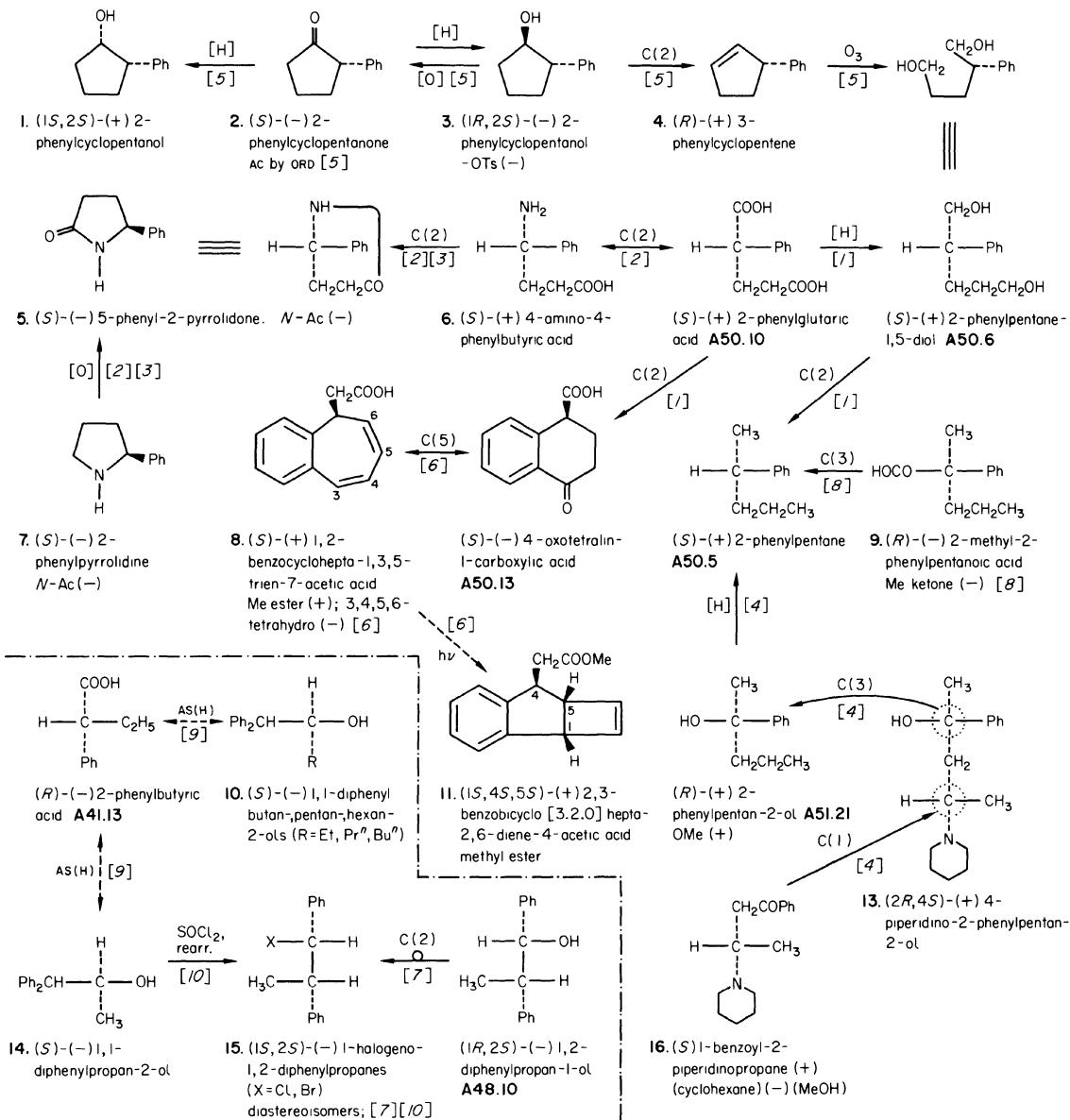
- T. N. Riley and C. G. Brier, *J. Medicin. Pharmaceut. Chem.*, 1972, **15**, 1187.
- E. W. Yankee, B. Spencer, N. E. Howe and D. J. Cram, *J. Amer. Chem. Soc.*, 1973, **95**, 4220.
- A. B. Chmurny and D. J. Cram, *J. Amer. Chem. Soc.*, 1973, **95**, 4237.
- See p. A44.
- M. Arai and R. J. Crawford, *Canad. J. Chem.*, 1972, **50**, 2158.
- M. Schlosser and G. Fouquet, *Chem. Ber.*, 1974, **107**, 1162.
- K. Nishiyama, J. Oda and Y. Inouye, *Bull. Chem. Soc. Japan*, 1974, **47**, 3175.
- H. M. Walborsky, L. Barash, A. E. Young and F. J. Impastato, *J. Amer. Chem. Soc.*, 1961, **83**, 2517.
- H. M. Walborsky, L. E. Allen, H.-J. Traenckner and E. J. Powers, *J. Org. Chem.*, 1971, **36**, 2937.
- H. M. Walborsky and A. E. Young, *J. Amer. Chem. Soc.*, 1964, **86**, 3288.



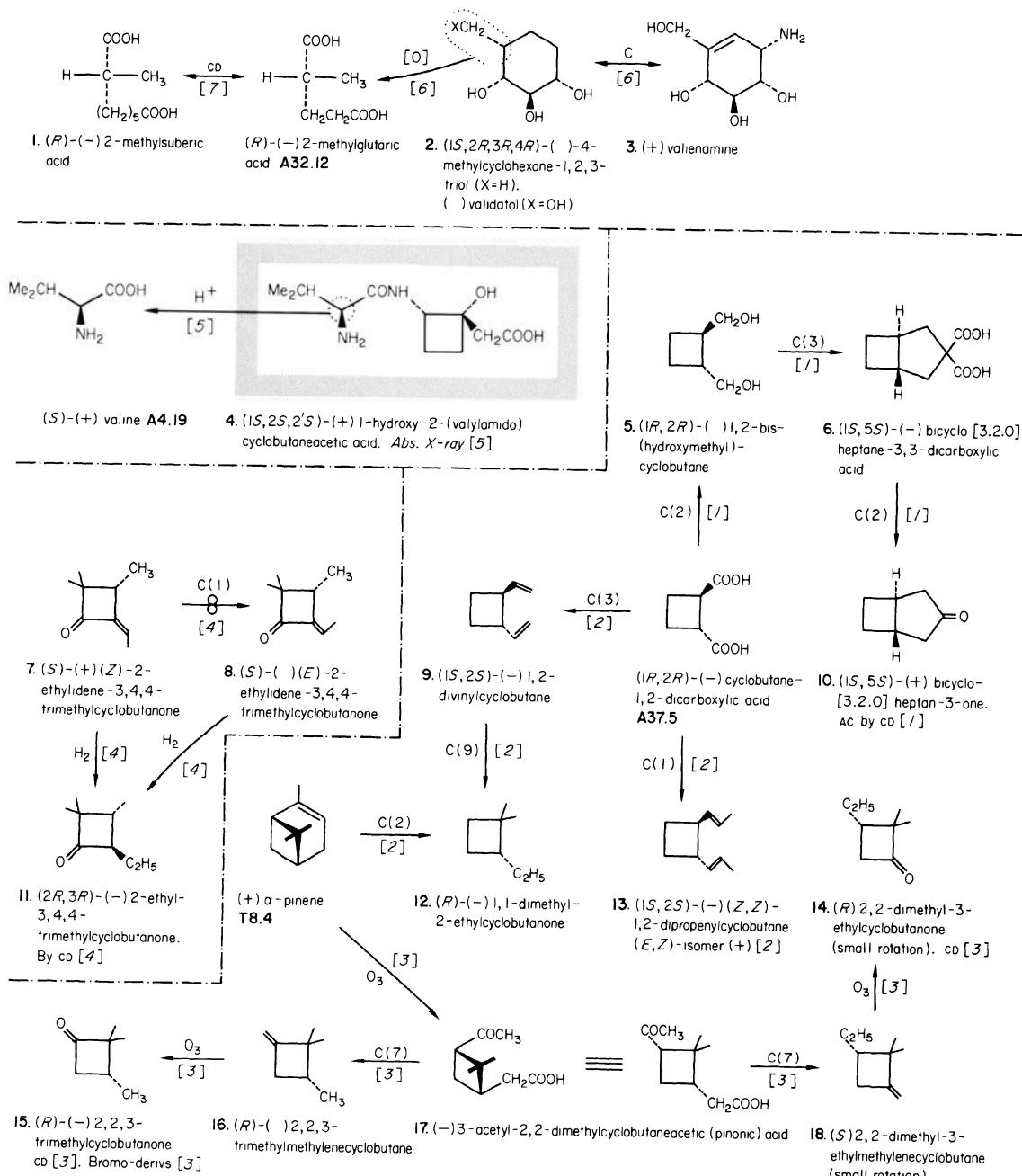
- D. I. Schuster and R. H. Brown, *Chem. Comm.*, 1976, 28.
- I. A. Holliday and N. Polgar, *J. Chem. Soc.*, 1957, 2934.
- R. K. Hill, R. Soman and S. Sawada, *J. Org. Chem.*, 1973, 37, 3737.
- F. I. Carroll and R. Meck, *J. Org. Chem.*, 1969, 34, 2676.
- R. K. Hill and S. Yan, *Bioorg. Chem.*, 1971, 1, 446; D. H. G. Crout and D. Whitehouse, *Chem. Comm.*, 1972, 398.
- F. I. Carroll, G. N. Mitchell, J. T. Blackwell, A. Sobti and R. Meck, *J. Org. Chem.*, 1974, 39, 3890 and refs. therein.
- C. Mioskowski and G. Solladie, *Tetrahedron*, 1973, 29, 3669.
- L. Hub and H. S. Mosher, *J. Org. Chem.*, 1970, 35, 3691.
- W. Kirmse and P. Feyen, *Chem. Ber.*, 1975, 108, 71.
- See p. A33.



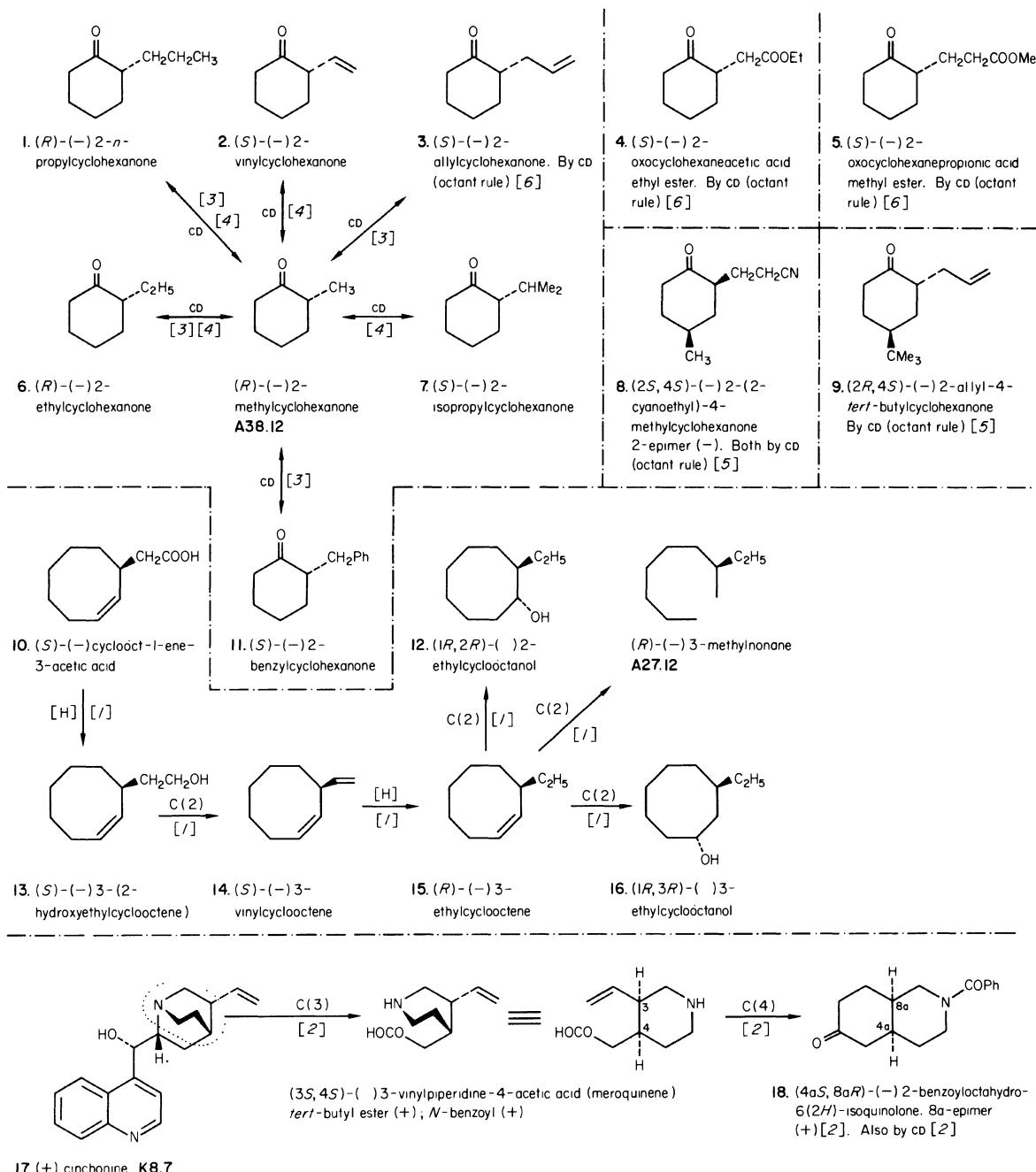
- M. J. Luche, A. Marquet and G. Snatzke, *Tetrahedron*, 1972, **28**, 1677.
- R. L. Dreibelbis, H. N. Khatri and H. M. Walborsky, *J. Org. Chem.*, 1975, **40**, 2074.
- R. W. Gray, A. Guggisberg, K. P. Segebarth, M. Hesse and H. Schmid, *Helv. Chim. Acta*, 1976, **59**, 645.
- J. S. Roberts and C. Thomson, *J. Chem. Soc., Perkin II*, 1972, 2129.
- W. Heller and C. Tamm, *Helv. Chim. Acta*, 1974, **57**, 1766.
- S. Brandänge, S. Josephson, S. Vallen and R. G. Powell, *Acta Chem. Scand.*, 1974, **B28**, 1237.
- M. Kobayashi, K. Koga and S. Yamada, *Chem. Pharm. Bull. (Japan)*, 1972, **20**, 1898.



1. See p. A50.
2. F. Morlacchi, V. Losacco and V. Tortorella, *Gazzetta*, 1975, **105**, 349.
3. N. Tangari and V. Tortorella, *Chem. Comm.*, 1975, 71.
4. M. Tramontini, L. Angiolini, C. Fouquey and J. Jacques, *Tetrahedron*, 1973, **29**, 4183.
5. C. J. Kim and H. C. Brown, *J. Amer. Chem. Soc.*, 1972, **94**, 5051; H. B. Hopps, *Diss. Abstr.*, 1962, **23**, 439.
6. M. Kato, M. Funakura, M. Tsuji and T. Miwa, *Chem. Comm.*, 1976, 63.
7. D. J. Cram and F. A. A. Elhafez, *J. Amer. Chem. Soc.*, 1952, **74**, 5851.
8. M. Calas, B. Calas and L. Giral, *Bull. Soc. chim. France*, 1976, 857.
9. H. J. Schneider and R. Haller, *Tetrahedron*, 1973, **29**, 2509.
10. D. J. Cram and F. A. A. Elhafez, *J. Amer. Chem. Soc.*, 1954, **76**, 28.

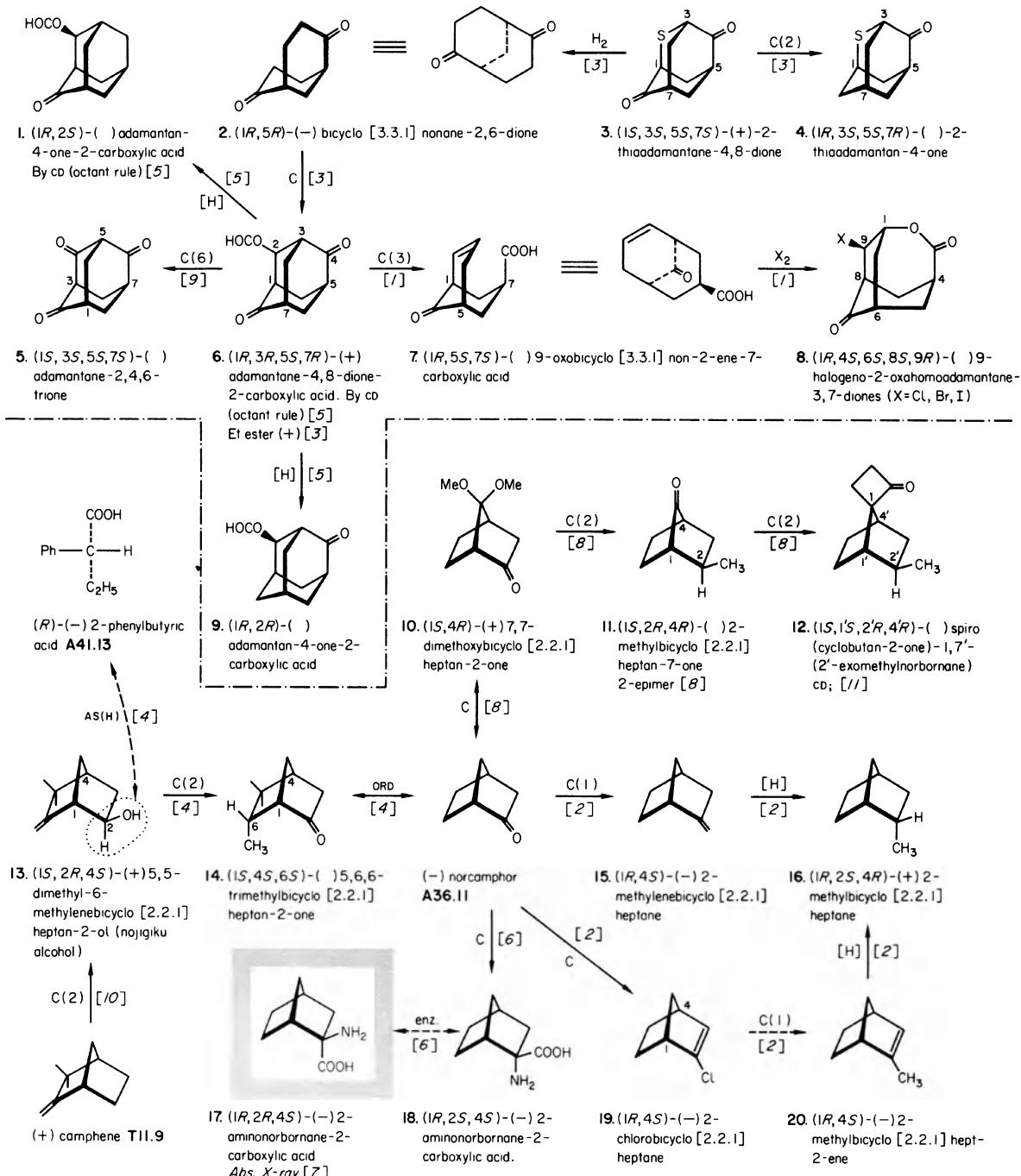


- J. C. A. Windhorst, *Chem. Comm.*, 1976, 331.
- J. A. Berson and P. B. Dervan, *J. Amer. Chem. Soc.*, 1973, 95, 267; 269.
- J. M. Conia and J. Goré, *Bull. Soc. chim. France*, 1964, 1968.
- M. Bertrand, J.-L. Gras and G. Gil, *Tetrahedron Letters*, 1974, 37.
- D. L. Pruess, J. P. Scannell, J. F. Blount, H. A. Ax, M. Kellett, T. H. Williams and A. Stempel, *J. Antibiotics (Japan)*, 1974, 27, 754.
- Y. Kameda and S. Horii, *Chem. Comm.*, 1972, 746; 747.
- J. Bus and O. Korver, *Rec. Trav. chim.*, 1975, 94, 254.

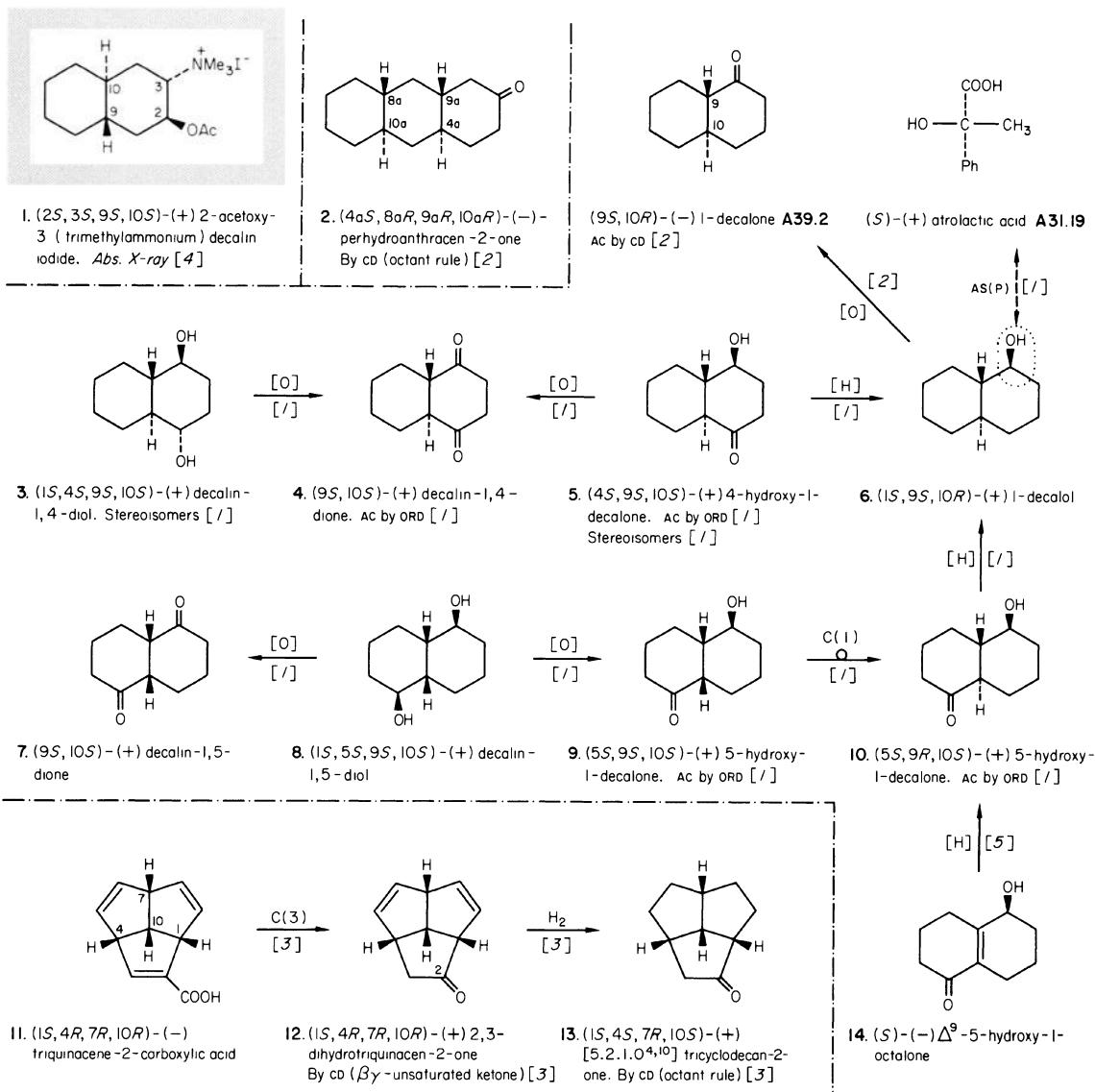


- B. Bogdanovic, *Angew. Chem. Internat. Edn.*, 1973, **12**, 954.
- M. R. Uskokovic, D. L. Pruess, C. W. Despreaux, S. Shiuey, G. Pizzolato and J. Gutzwiler, *Helv. Chim. Acta*, 1973, **56**, 2834.
- A. I. Meyers, D. R. Williams and M. Druelinger, *J. Amer. Chem. Soc.*, 1976, **98**, 3032.
- M. Kitamoto, K. Kiroi, S. Terashima and S. Yamada, *Chem. Pharm. Bull. (Japan)*, 1974, **22**, 459.
- K. Hiroi and S. Yamada, *Chem. Pharm. Bull. (Japan)*, 1973, **21**, 47.
- K. Hiroi, K. Achiwa and S. Yamada, *Chem. Pharm. Bull. (Japan)*, 1972, **20**, 246.

## (i) Adamantanes (ii) norbornanes



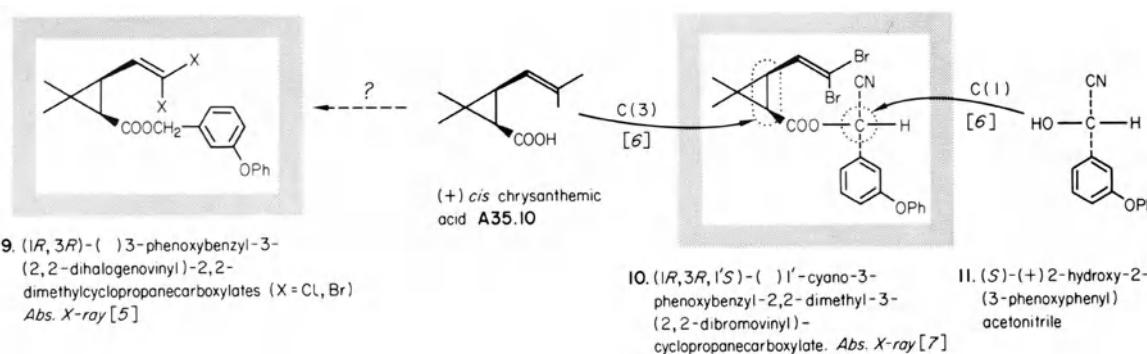
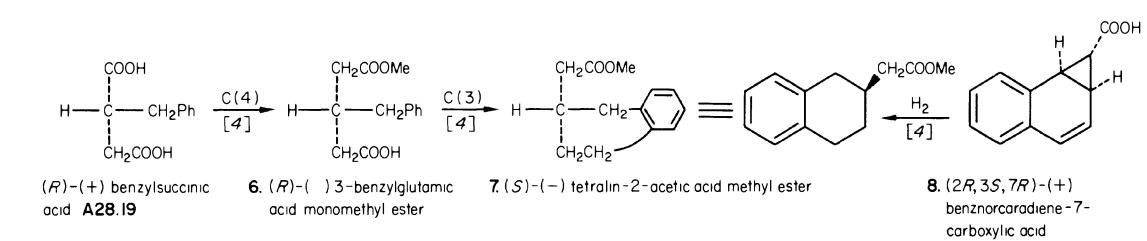
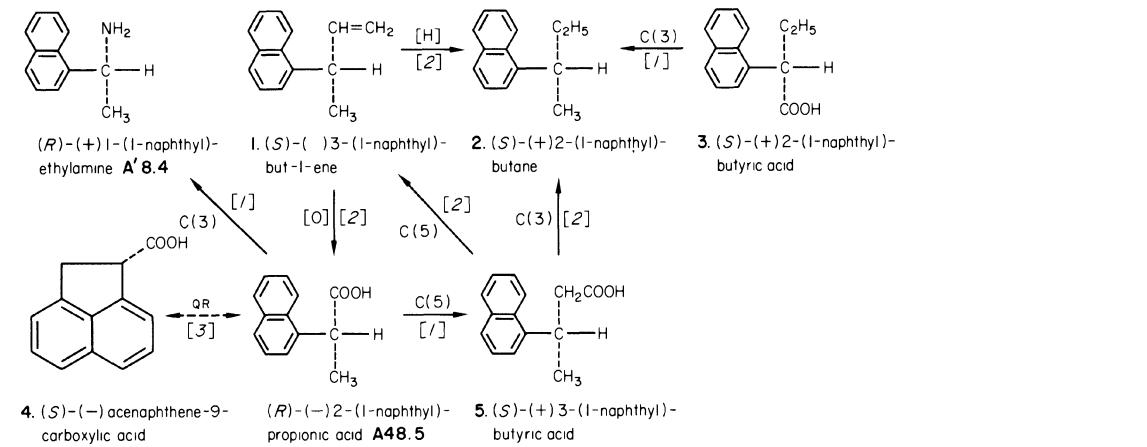
- M. Keller and G. Snatzke, *Tetrahedron*, 1973, **29**, 4013.
- P. G. Gassman and T. J. Atkins, *Tetrahedron Letters*, 1975, 3035.
- G. Snatzke and B. Wolfram, *Tetrahedron*, 1972, **28**, 655.
- A. Matsuo, Y. Uchio, M. Nakayama, Y. Matsubara and S. Hayashi, *Tetrahedron Letters*, 1974, 4219.
- G. Snatzke and G. Eckhardt, *Tetrahedron*, 1968, **24**, 4543.
- H. S. Tager and H. N. Christensen, *J. Amer. Chem. Soc.*, 1972, **94**, 968.
- P. A. Apgar and M. L. Ludwig, *J. Amer. Chem. Soc.*, 1972, **94**, 964.
- D. A. Lightner and D. E. Jackman, *J. Amer. Chem. Soc.*, 1974, **96**, 1938.
- G. Snatzke and H. Klein, *Chem. Ber.*, 1972, **105**, 244.
- M. Julia, D. Mansuy and P. Detraz, *Tetrahedron Letters*, 1976, 2141.
- D. A. Lightner and D. E. Jackman, *Chem. Comm.*, 1974, 344.



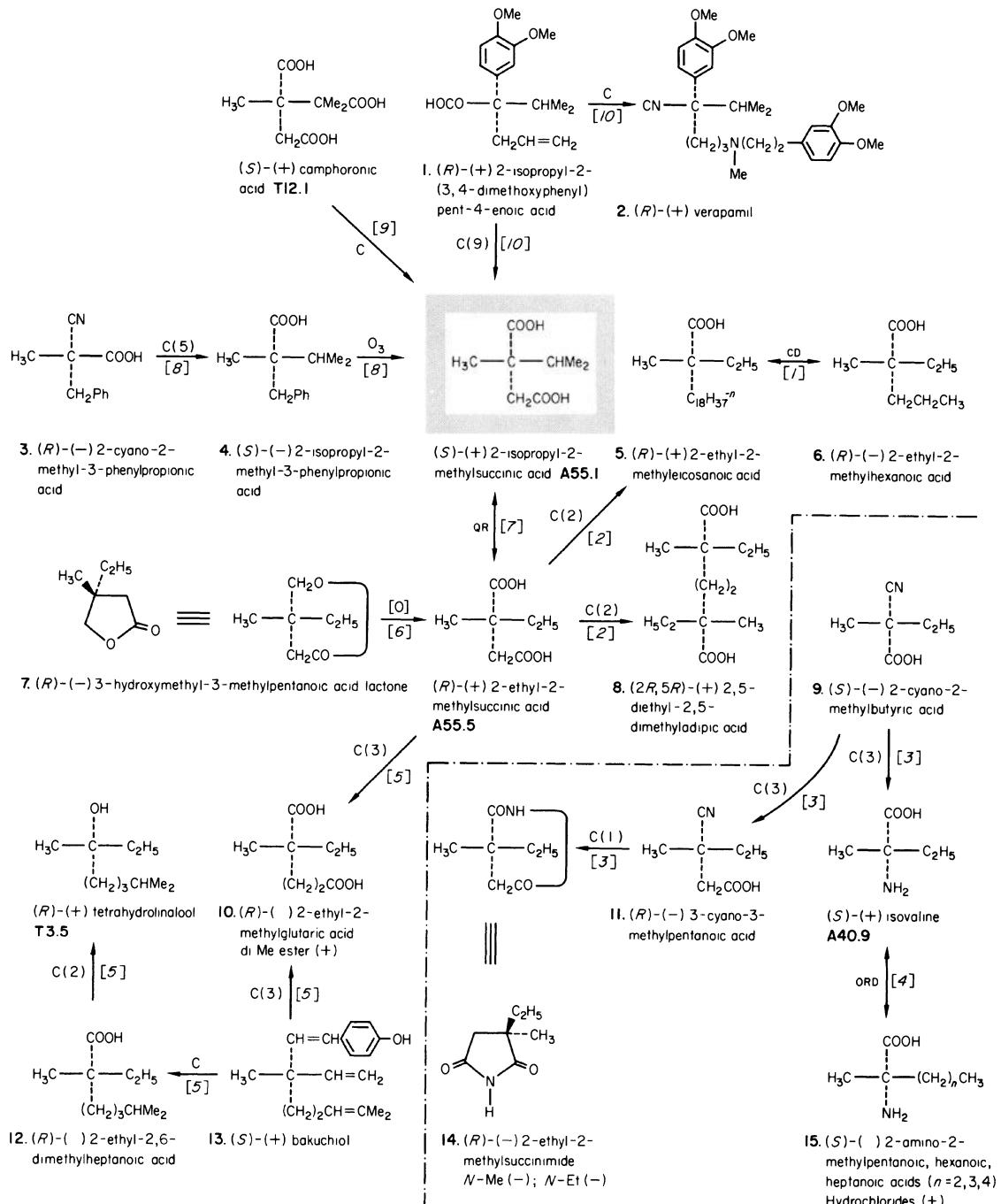
- P. Baumann and V. Prelog, *Helv. Chim. Acta*, 1958, **41**, 2362; 2379; W. R. Feldman and V. Prelog, *ibid.*, 2396.
- F. Fernandez, D. N. Kirk and P. M. Scopes, *J. Chem. Soc., Perkin I*, 1974, 18.
- L. A. Paquette, W. B. Farnham and S. V. Ley, *J. Amer. Chem. Soc.*, 1975, **97**, 7272.
- K. B. Schowen, E. E. Smissman and W. F. Stephen, *J. Medicin. Pharmaceut. Chem.*, 1975, **18**, 292.
- P. Baumann and V. Prelog, *Helv. Chim. Acta*, 1959, **42**, 736.

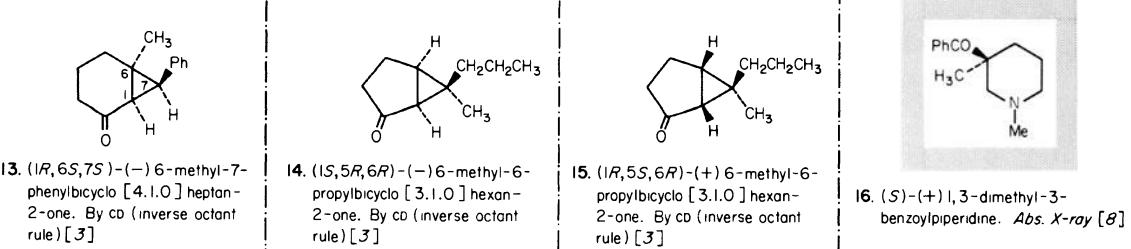
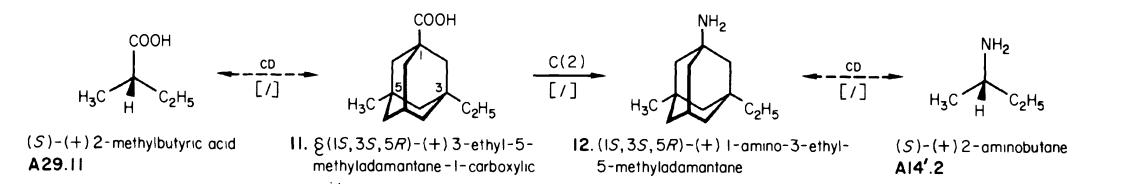
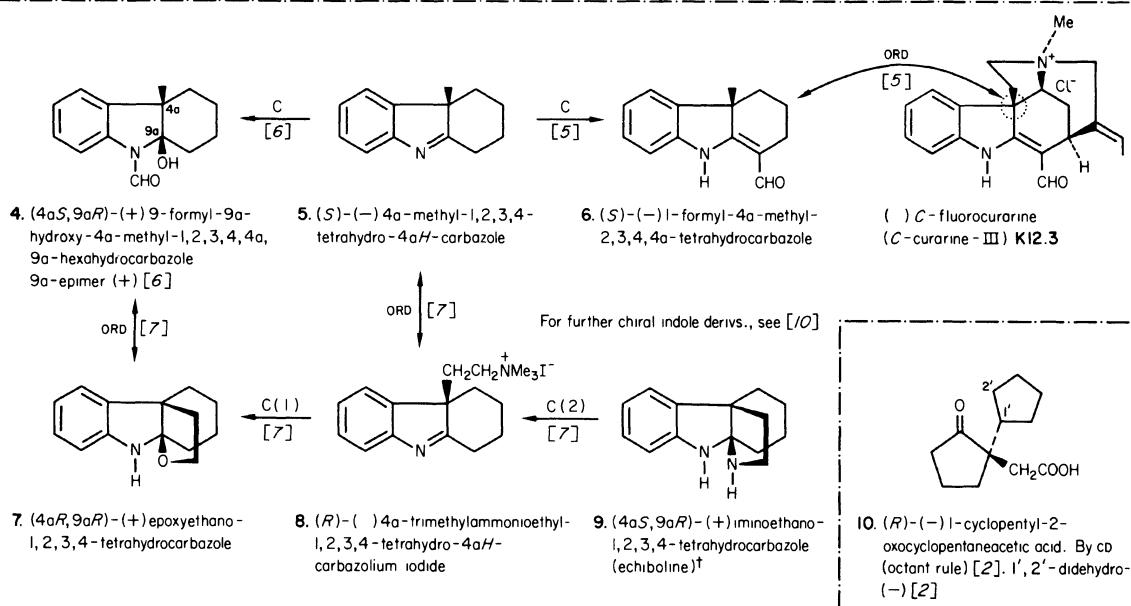
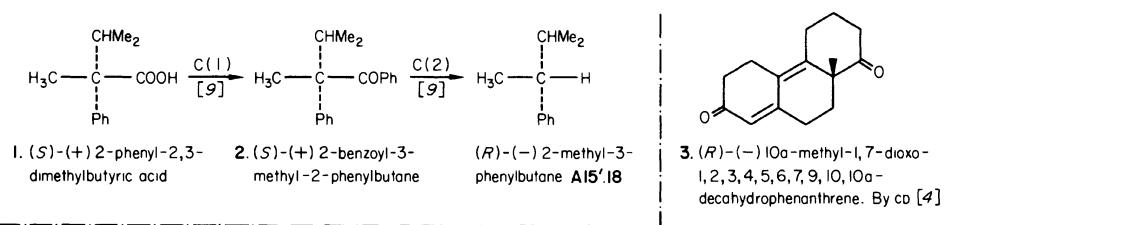
## Class 3a, 3b

## Mainly one-centre aromatic acids



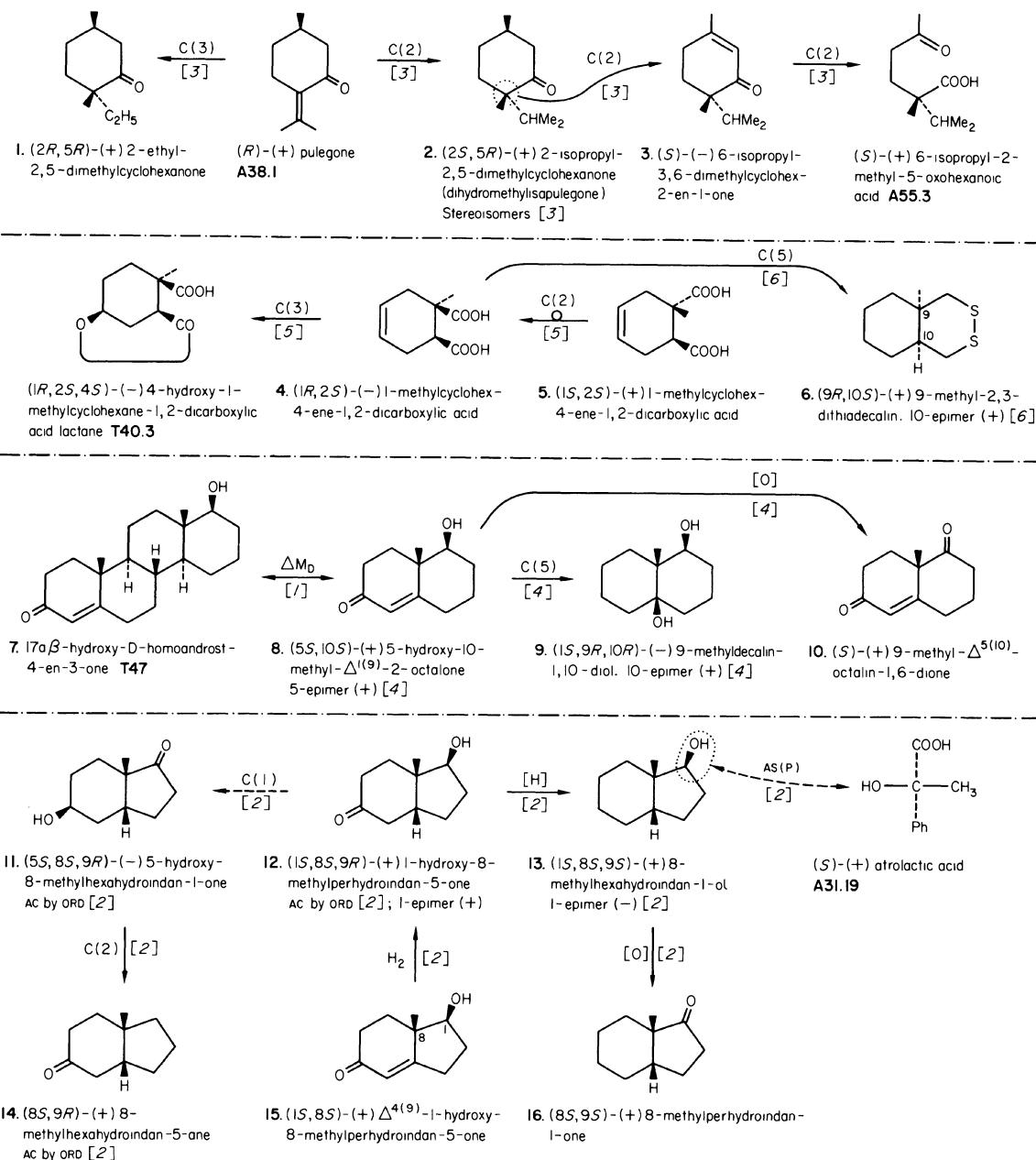
- R. Menicagli, L. Lardicci and C. Botteghi, *Chem. and Ind.*, 1974, 920.
- F. Ciardelli, P. Salvadori, C. Carlini, R. Menicagli and L. Lardicci, *Tetrahedron Letters*, 1975, 1779.
- A. Fredga, *Bull. Soc. chim. France*, 1973, 173.
- M. Kato, M. Funakura, M. Tsuji and T. Miwa, *Chem. Comm.*, 1976, 63.
- J. D. Owen, *J. Chem. Soc., Perkin I*, 1976, 1231.
- M. Elliott, A. W. Farnham, N. F. Janes, P. H. Needham and D. A. Pulman, *Nature*, 1974, 248, 710.
- J. D. Owen, *Chem. Comm.*, 1974, 859.



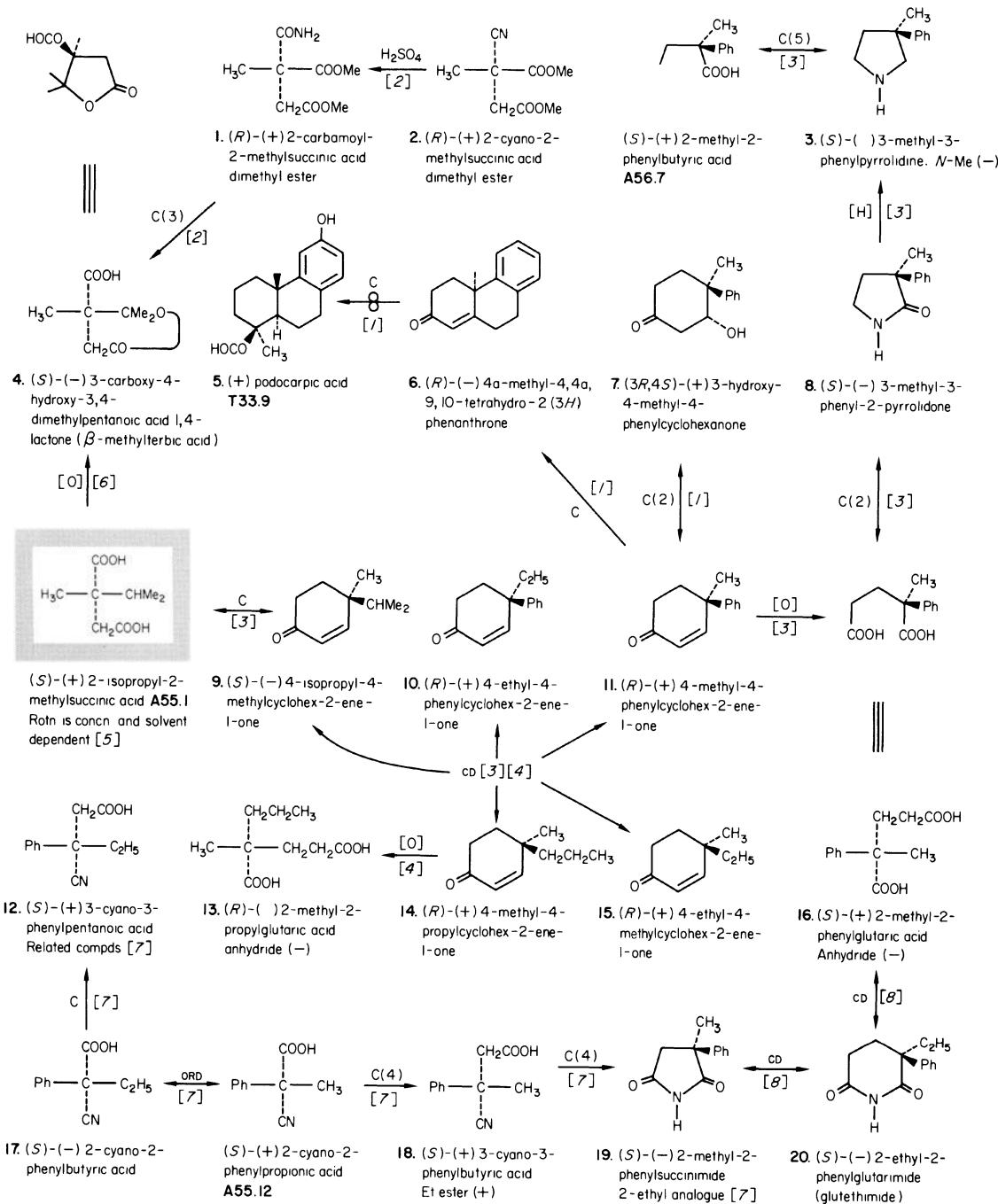


<sup>†</sup> Echiboline is a naturally occurring alkaloid but the natural product is racemic [7]

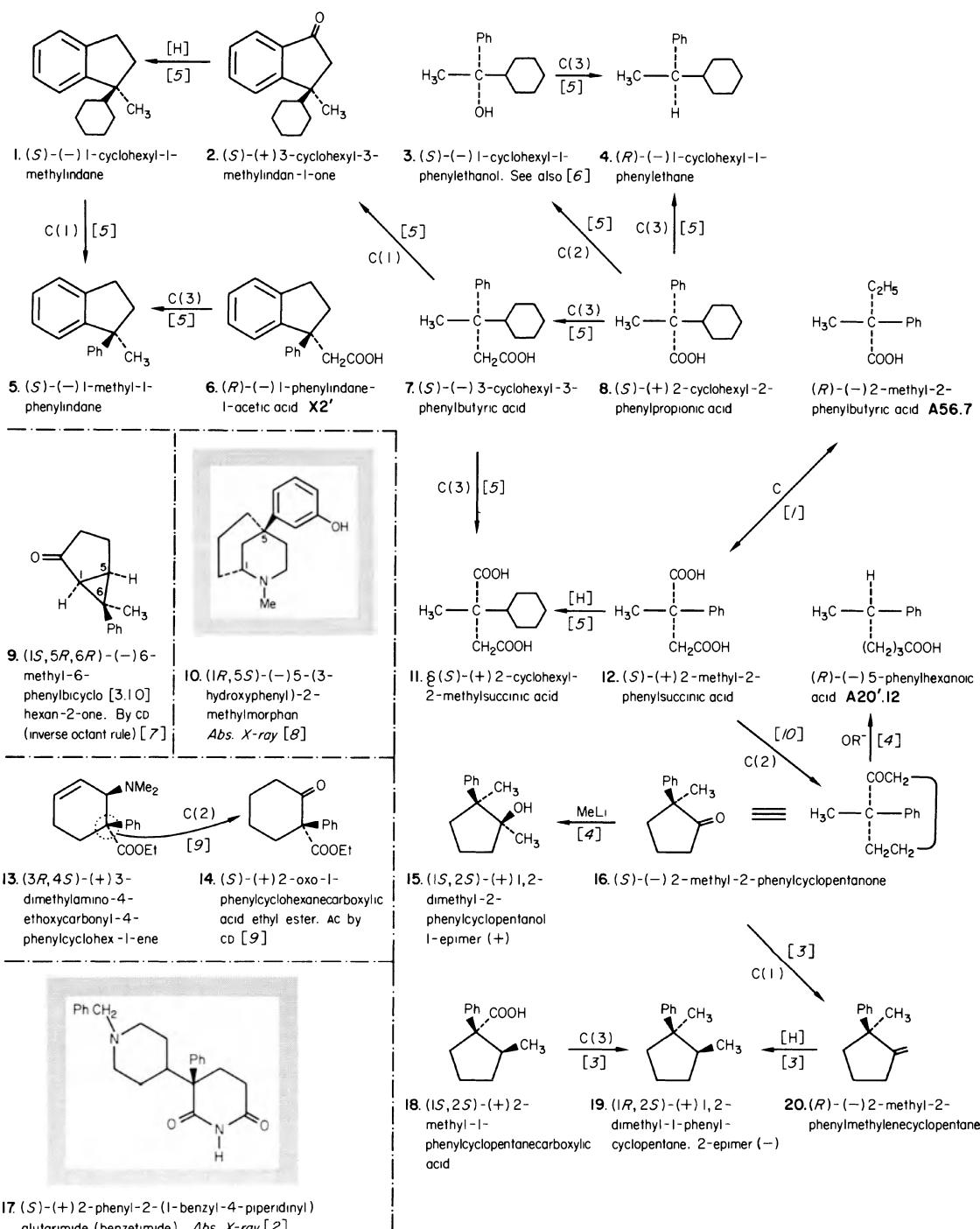
1. O. Cervinka, A. Fabryova and J. Hajicek, *Coll. Czech Chem. Comm.*, 1974, **39**, 1582.
2. R. L. Coffin, R. S. Givens and R. G. Carlson, *J. Amer. Chem. Soc.*, 1974, **96**, 7554.
3. D. I. Schuster and R. H. Brown, *Chem. Comm.*, 1976, 28.
4. R. Bucourt, Y. Pietrasanta, B. Pucci, J. C. Rousselou and M. Vignau, *Tetrahedron*, 1975, **31**, 3041.
5. H. Fritz, R. Oehl and E. Besch, *Annalen*, 1969, **721**, 87.
6. H. Fritz and R. Oehl, *Annalen*, 1972, **756**, 79.
7. H. Fritz and P. Uhrhan, *Annalen*, 1972, **756**, 87.
8. J. R. Ruble, G. Hite and J. R. Soares, *Acta Cryst.*, 1976, **B32**, 128.
9. M. Calas, B. Calas and L. Giral, *Bull. Soc. chim. France*, 1976, 857.
10. H. Fritz and H. Gerber, *Annalen*, 1975, 1422.



- V. Prelog and W. Acklin, *Helv. Chim. Acta.* 1956, **39**, 748.
- W. Acklin and V. Prelog, *Helv. Chim. Acta*, 1959, **42**, 1239.
- M. R. Cox, H. P. Koch and W. B. Whalley, *J. Chem. Soc., Perkin I*, 1973, 174 and refs, therein.
- H. H. Westen, *Helv. Chim. Acta*, 1964, **47**, 575.
- J. Dixon, B. Lythgoe, I. A. Siddiqui and J. Tideswell, *J. Chem. Soc. (C)*, 1971, 1301.
- S. Hagishita and K. Kuriyama, *J. Chem. Soc., Perkin II*, 1974, 686.



- T. Sone, S. Terashima and S. Yamada, *Chem. Pharm. Bull. (Japan)*, 1976, **24**, 1273, 1288.
- K. K. Lee, *J. Chinese Chem. Soc. (Formosa)*, 1973, **20**, 107.
- S. Yamada and G. Otani, *Tetrahedron Letters*, 1969, 4237; *Chem. Pharm. Bull. (Japan)*, 1973, **21**, 2119; 2125; 2130.
- D. I. Schuster and B. M. Resnick, *J. Amer. Chem. Soc.*, 1974, **96**, 6223.
- A. Horeau and J. P. Guetté, *Tetrahedron*, 1974, **30**, 1923.
- J. Porath, *Arkiv. Kemi*, 1949, **1**, 385.
- J. Knabe and W. Koch, *Arch. Pharm.*, 1972, **305**, 849.
- N. Finch, R. Dziedzian, J. Cohen and B. G. Steinert, *Experientia*, 1975, **31**, 1002.

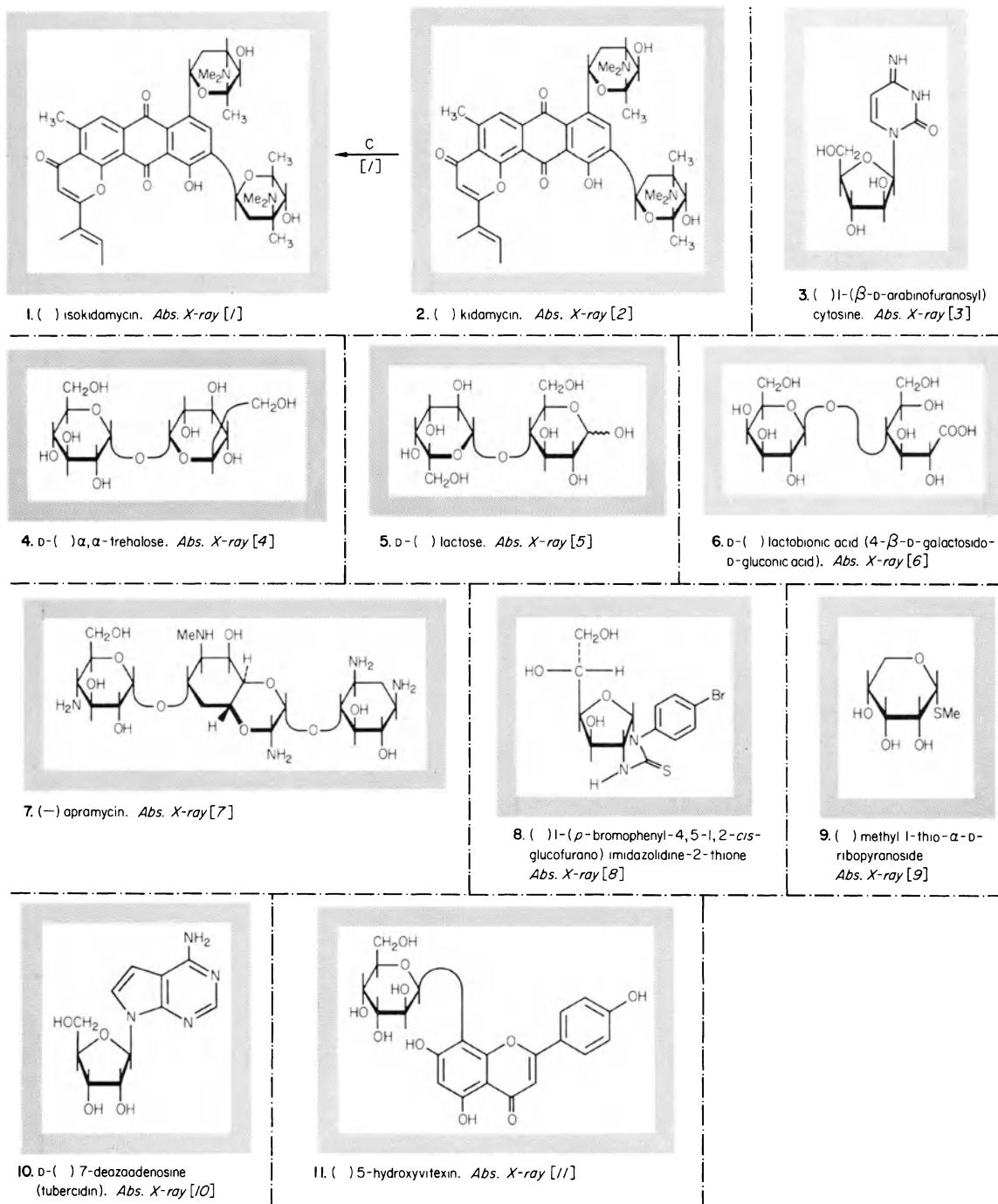


- R. K. Hill and N. W. Gilman, *Chem. Comm.*, 1967, 619; N. W. Gilman, *Diss. Abstr.*, 1968, B28, 3220.
- A. L. Spek, A. F. Peerdeman, I. van Wijngaarden and W. Soudijn, *Nature*, 1971, 232, 575.
- J. Brugidou, H. Christol, J. M. Fabre, L. Giral and R. Sales, *Bull. Soc. chim. France*, 1974, 2906.
- T. D. Hoffman and D. J. Cram, *J. Amer. Chem. Soc.*, 1969, 91, 1000.
- R. K. Hill and D. A. Cullison, *J. Amer. Chem. Soc.*, 1973, 95, 1229.
- T. D. Inch, R. V. Ley and P. Rich, *J. Chem. Soc., (C)*, 1968, 1693.
- D. I. Schuster and R. H. Brown, *Chem. Comm.*, 1976, 28.
- T. G. Cochran, *J. Medicin. Pharmaceut. Chem.*, 1974, 17, 987.
- G. Satzinger, *Annalen*, 1972, 758, 65.
- H. des Abbayes and R. Dabard, *Tetrahedron*, 1975, 31, 2111.

C'

## Carbohydrates

---



1. M. Furukawa and Y. Iitaka, *Tetrahedron Letters*, 1974, 3287.
2. M. Furukawa, A. Itai and Y. Iitaka, *Tetrahedron Letters*, 1973, 1065.
3. J. S. Sherfinski and R. E. Marsh, *Acta Cryst.*, 1973, **B29**, 192.
4. W. J. Cook and C. E. Bugg, *Carbohydrate Res.*, 1973, 31, 265.
5. C. E. Bugg, *J. Amer. Chem. Soc.*, 1973, **95**, 908.
6. W. J. Cook and C. E. Bugg, *Acta Cryst.*, 1973, **B29**, 215.
7. S. O'Connor, L. K. T. Lam, N. D. Jones and M. O. Chaney, *J. Org. Chem.*, 1976, **41**, 2087.
8. R. Vega, V. Hernandez-Montis and A. Lopez-Castro, *Acta Cryst.*, 1976, **B32**, 1363.
9. R. A. Girling and G. A. Jeffrey, *Acta Cryst.*, 1973, **B29**, 1006.
10. K. Asahi, K. Anzai, S. Suzuki and H. Iwasaki, *Chem. Letters*, 1973, 1197.
11. F. A. Jurnak and D. H. Templeton, *Acta Cryst.*, 1975, **B31**, 1304.

# T'

## Terpines (including Steroids)

---

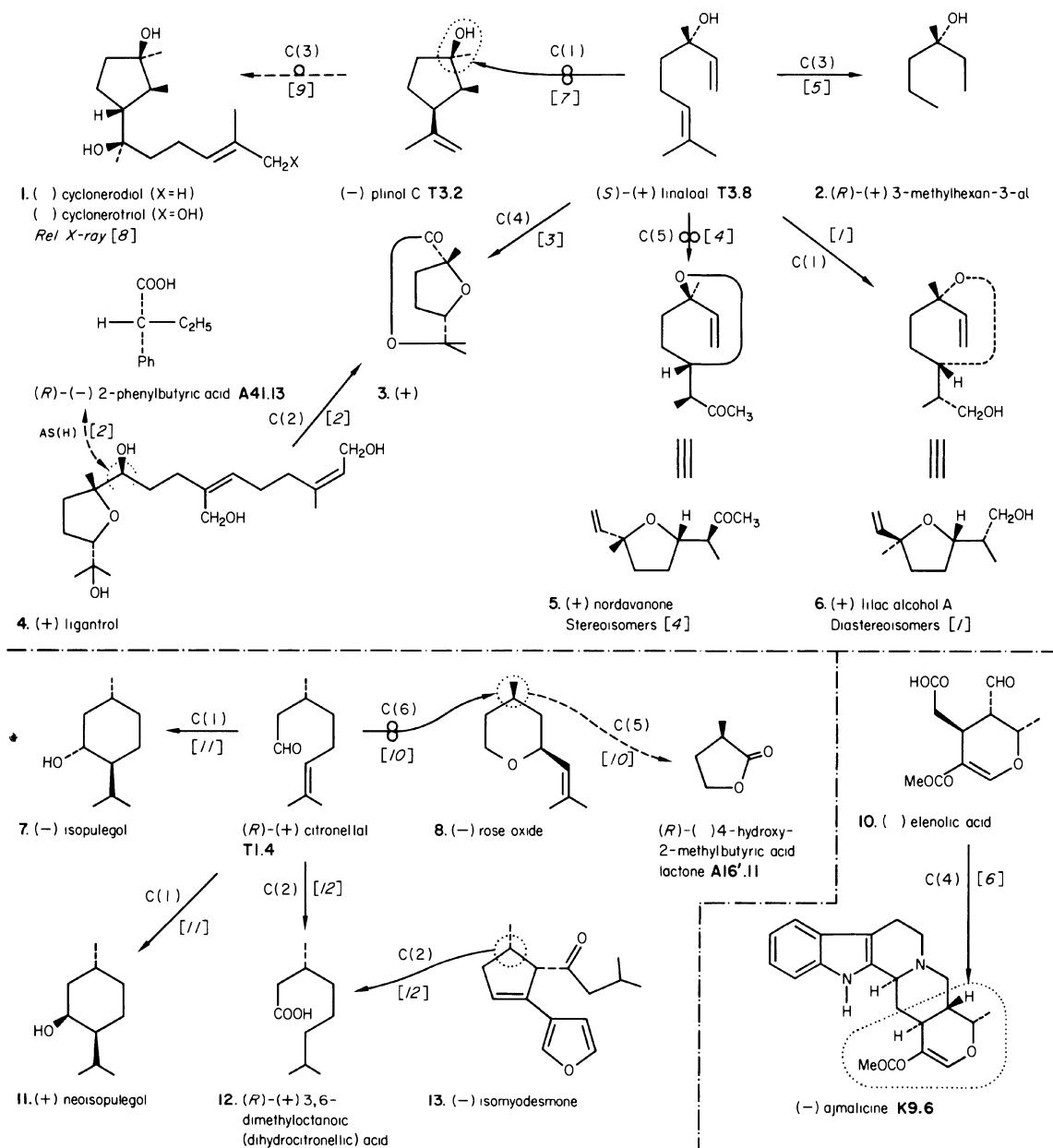
### Introductory Notes to Chapter T'

The arrangement of material is essentially the same as in Volume 1.

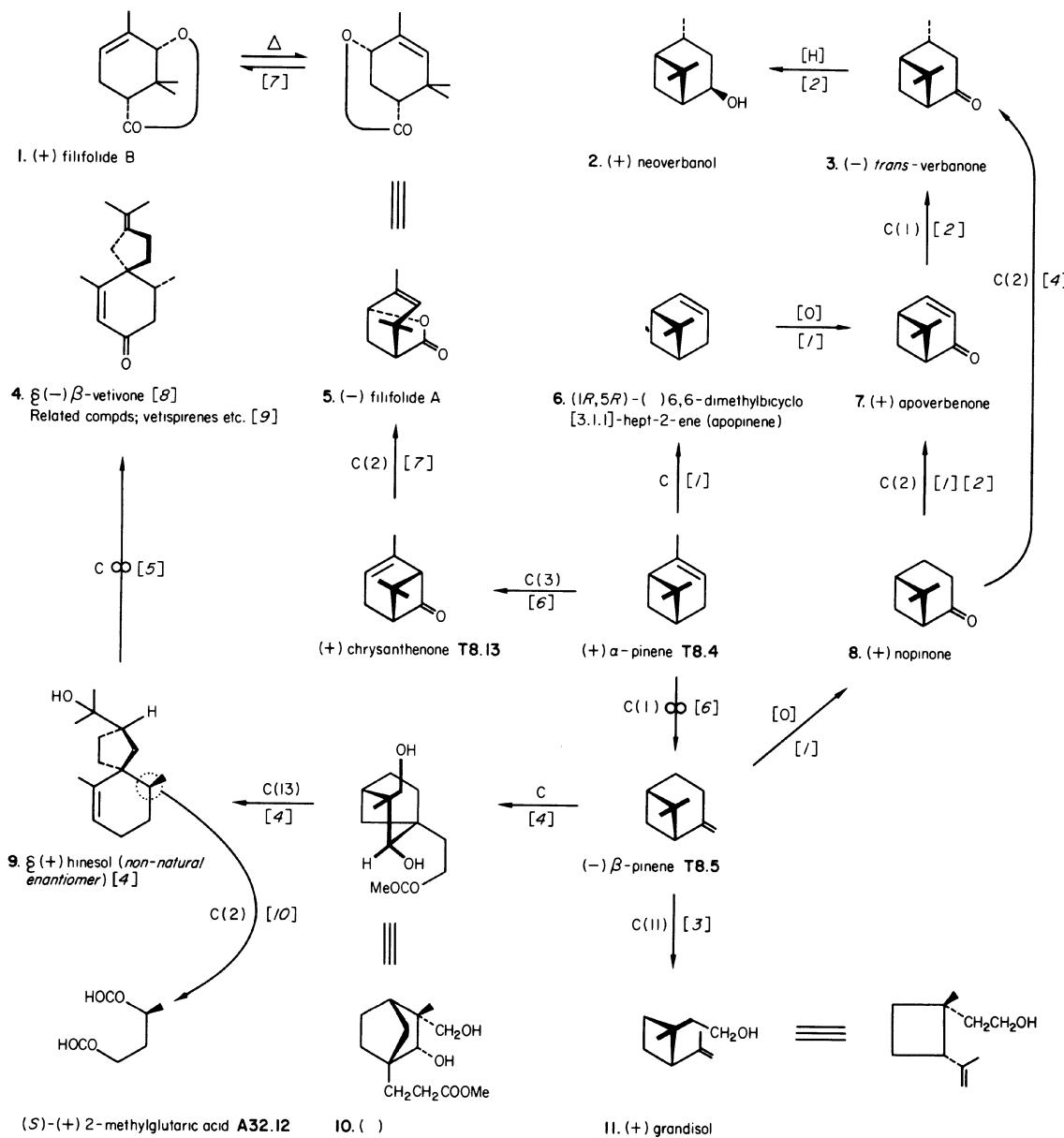
#### *Arrangement*

Monoterpens	T1'-T5'
Sesquiterpenes	T1'-T10'
Diterpenes	T1', T10'-T14'
Triterpenes and steroids	T15'-T16'
Nortriterpenes (Limonoids etc)	T16'
Tetraterpenes and sesquiterpenes of the abscisic acid group	T17'-T18'
Pentaterpenes	T18'

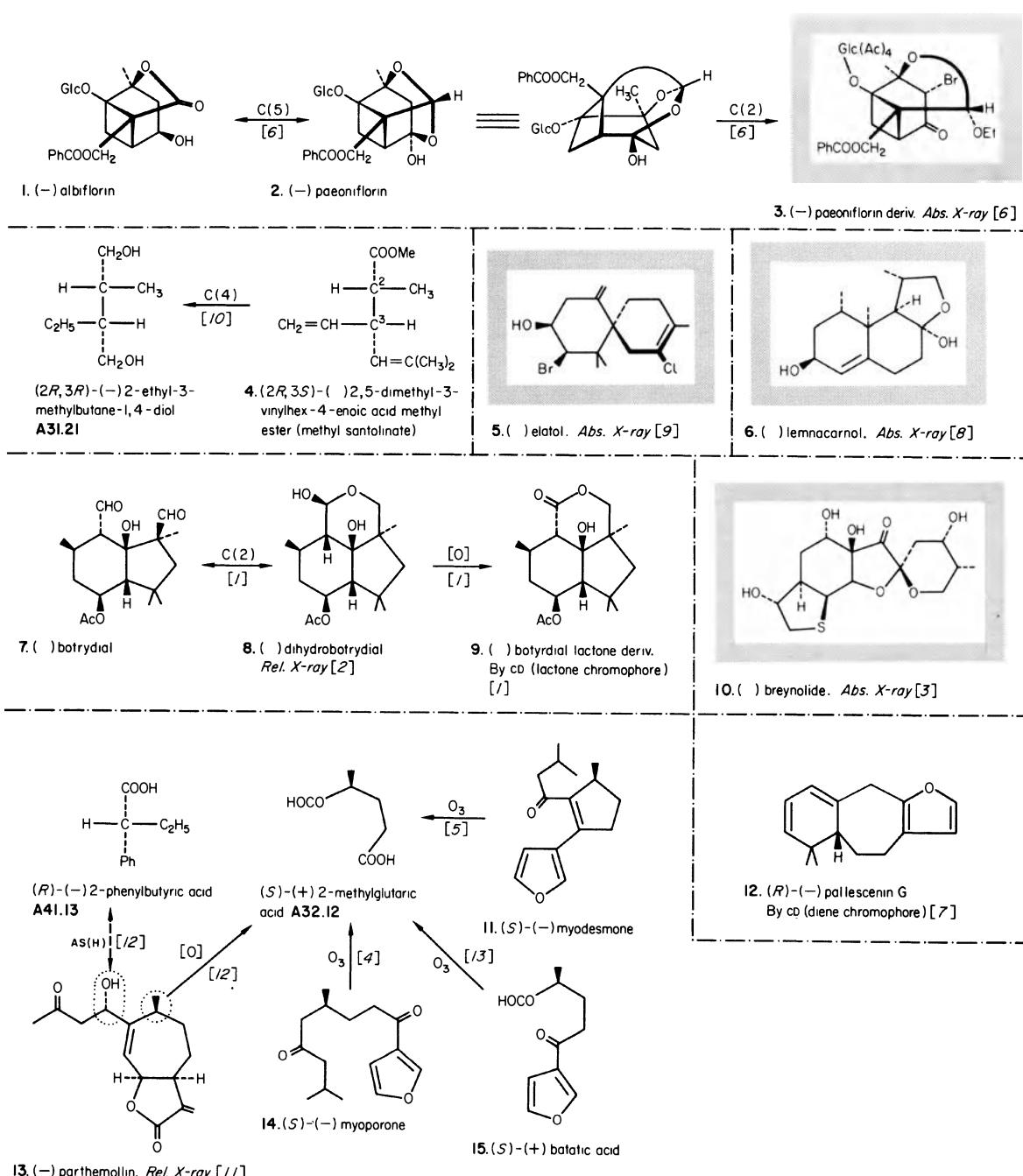
## Further terpenes related to linalool and citronellal



1. S. Wakayama, S. Namba, K. Hosoi and M. Ohno, *Bull. Chem. Soc. Japan*, 1973, **46**, 3183.
2. W. Herz and R. P. Sharma, *J. Org. Chem.*, 1975, **40**, 192.
3. F. Klein, H. Farnow and W. Rojahn, *Annalen*, 1964, **675**, 73.
4. A. F. Thomas and M. Ozainne, *Helv. Chim. Acta*, 1974, **57**, 2062.
5. W. J. Richter, *Annalen*, 1975, 401.
6. F. A. MacKellar, R. C. Kelly, E. E. van Tamelen and C. Dorschel, *J. Amer. Chem. Soc.*, 1973, **95**, 7155.
7. See p. T3.
8. J. R. Hanson, P. B. Hitchcock and R. Nyfeler, *J. Chem. Soc., Perkin I*, 1975, 1586.
9. S. Nozoe, M. Goi and N. Morisaki, *Tetrahedron Letters*, 1971, 3701.
10. C. F. Seidel, D. Felix, A. Eschenmoser, K. Biemann, E. Palluy and M. Stoll, *Helv. Chim. Acta*, 1961, **44**, 598.
11. K. Sakai and O. Oda, *Tetrahedron Letters*, 1972, 4375; H. Ueda and S. Shimizu, *Bull. Agric. Chem. Soc. Japan*, 1960, **24**, 402.
12. I. D. Blackburne, R. J. Park and M. D. Sutherland, *Austral. J. Chem.*, 1971, **24**, 995.



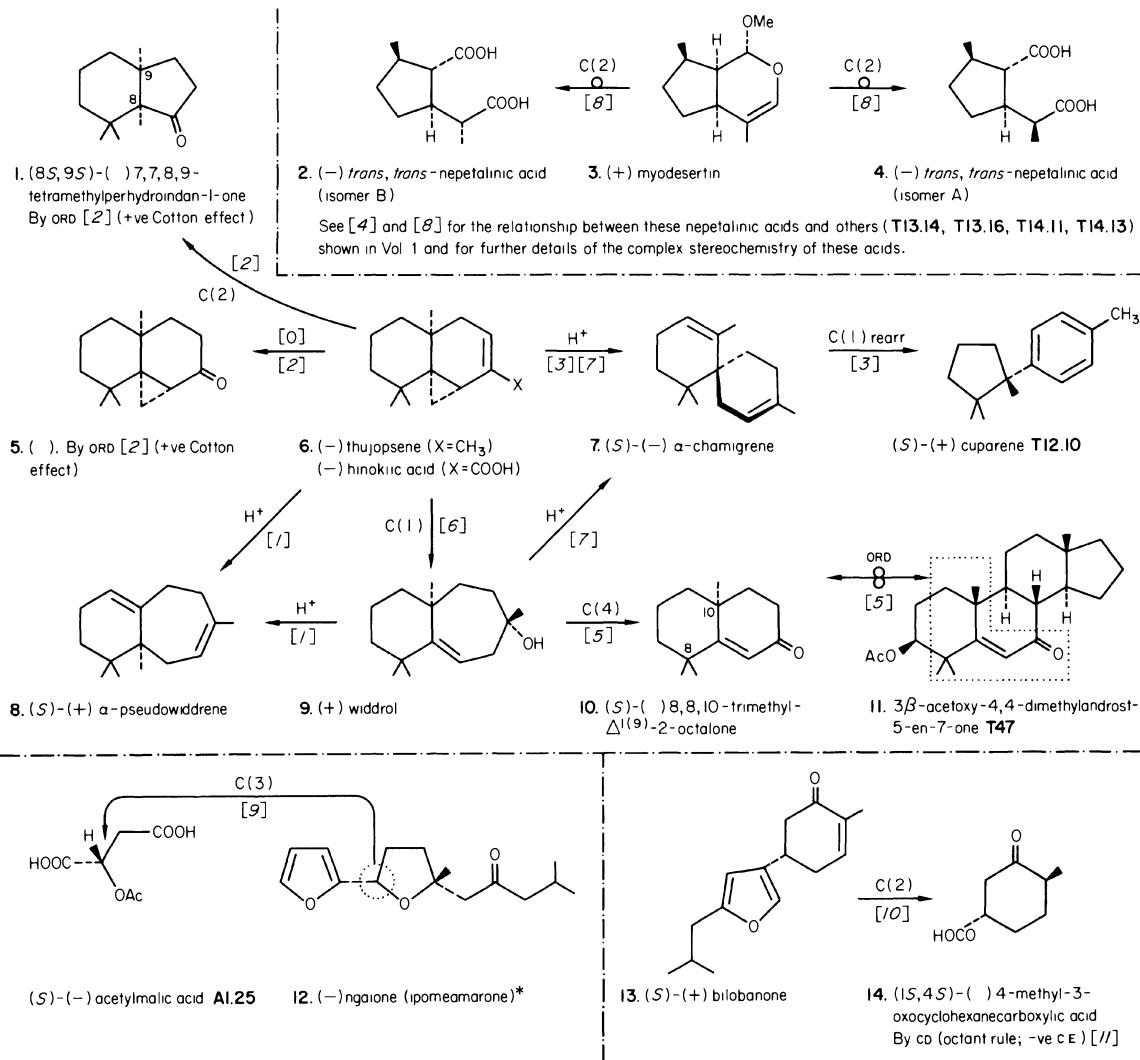
1. J. Grimshaw, J. T. Grimshaw and H. R. Juneja, *J. Chem. Soc., Perkin I*, 1972, 51, and refs. therein.
2. P. D. Hobbs and P. D. Magnus, *J. Chem. Soc., Perkin I*, 1973, 2879.
3. P. D. Hobbs and P. D. Magnus, *Chem. Comm.*, 1974, 856.
4. D. Buddsukh and P. D. Magnus, *Chem. Comm.*, 1975, 952.
5. I. Yosioka and T. Kimura, *Chem. Pharm. Bull. (Japan)*, 1965, 13, 1430.
6. See p. T8.
7. S. J. Torrance and C. Steelink, *J. Org. Chem.*, 1974, 39, 1068.
8. J. A. Marshall and P. C. Johnson, *J. Amer. Chem. Soc.*, 1967, 89, 2750.
9. N. H. Andersen, M. S. Falcone and D. D. Sydal, *Tetrahedron Letters*, 1970, 1759.
10. W. Z. Chow, O. Motl and F. Sorm, *Coll. Czech Chem. Comm.*, 1962, 27, 1914.



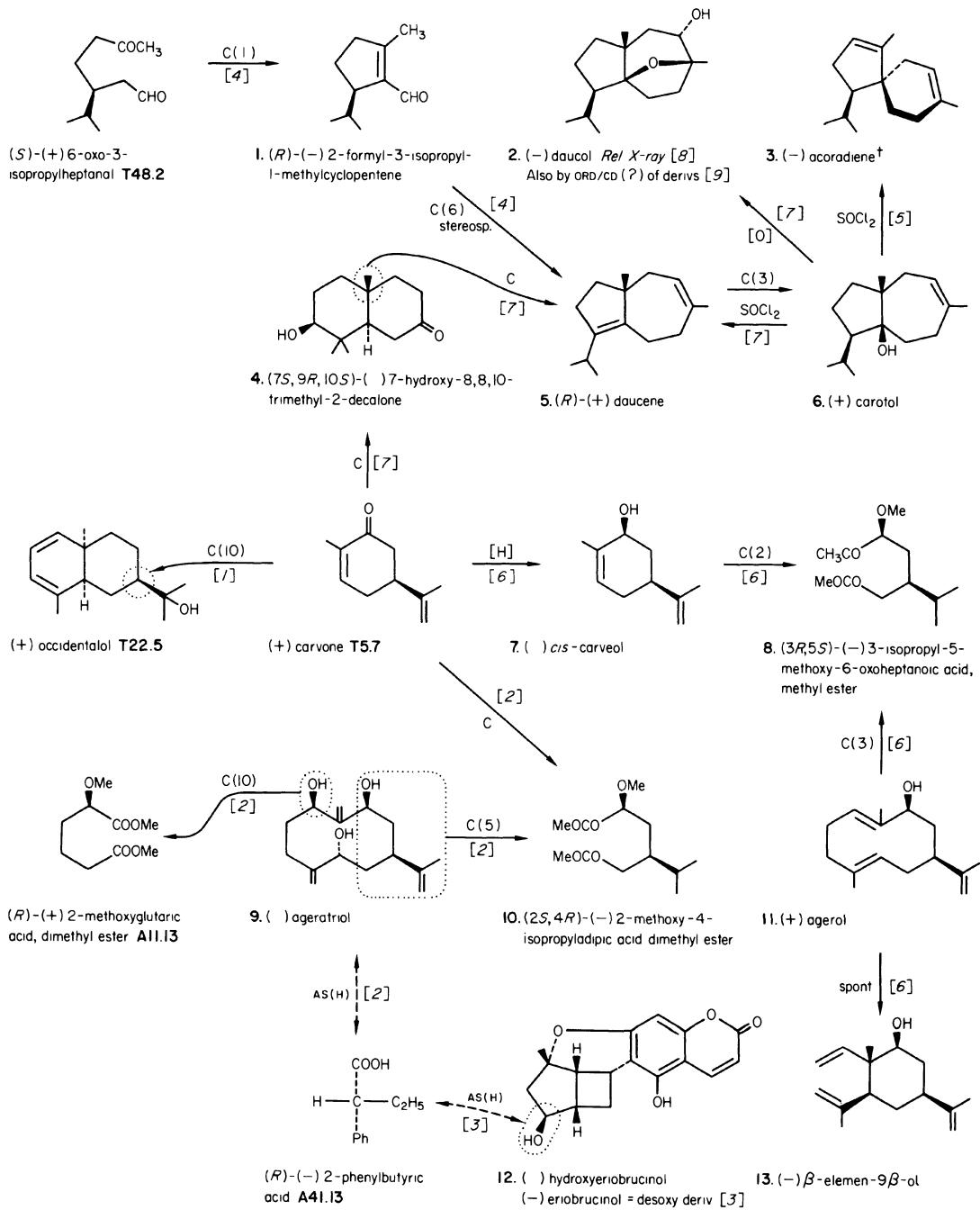
- H.-W. Fehlhaber, R. Geipel, H.-J. Mercker, R. Tschesche and K. Welmar, *Chem. Ber.*, 1974, **107**, 1720.
- H. J. Lindner and B. von Gross, *Chem. Ber.*, 1974, **107**, 3332.
- K. Sasaki and Y. Hirata, *Tetrahedron Letters*, 1973, 2439.
- I. D. Blackburne, R. J. Park and M. D. Sutherland, *Austral. J. Chem.*, 1972, **25**, 1787.
- I. D. Blackburne, R. J. Park and M. D. Sutherland, *Austral. J. Chem.*, 1971, **24**, 995.
- M. Kaneda, Y. Itaka and S. Shibata, *Tetrahedron*, 1972, **28**, 4309.
- G. Cimino, S. De Stefano, A. Guerriero and L. Minale, *Tetrahedron Letters*, 1975, 1421.
- D. Karlsson and D. Losman, *Acta Cryst.*, 1976, **B32**, 1614.
- J. J. Sims, G. H. Y. Lin and R. M. Wing, *Tetrahedron Letters*, 1974, 3487.
- J. Shaw, T. Noble and W. Epstein, *Chem. Comm.*, 1975, 590.
- P. Sundararaman and R. S. McEwen, *J. Chem. Soc., Perkin II*, 1975, 440.
- W. Herz, S. V. Bhat and A. L. Hall, *J. Org. Chem.*, 1970, **35**, 1110.
- T. Kubota and K. Naya, *Chem. and Ind.*, 1954, 1427.

# T<sup>4'</sup>

Thujopsene, widdrol; myodesertin; ngaione



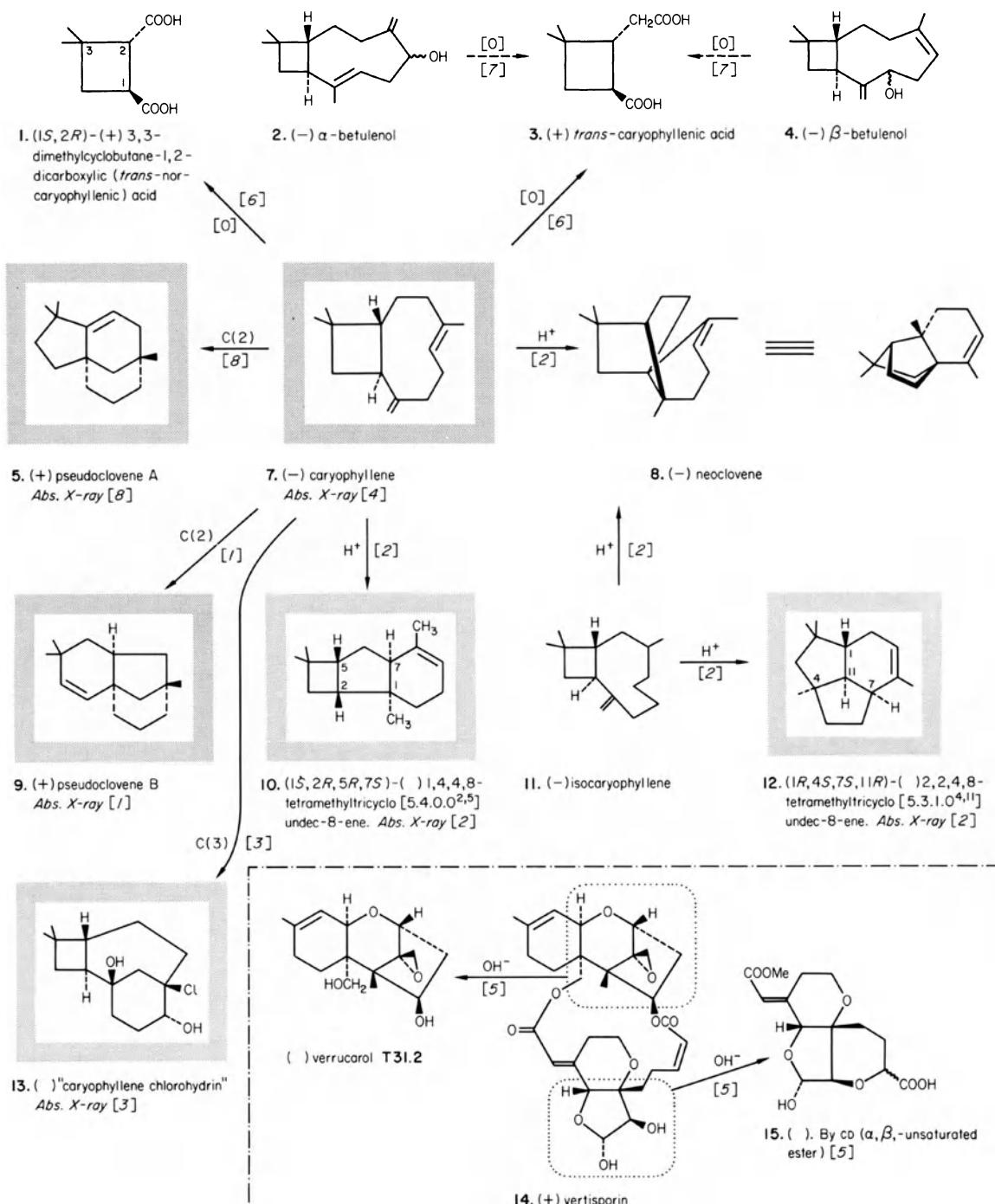
1. S. Ito, K. Endo and H. Narita, *Tetrahedron Letters*, 1974, 1041.
2. T. Norin, *Acta Chem. Scand.*, 1963, **17**, 738.
3. H. U. Daeniker, A. R. Hochstetler, K. Kaiser and G. C. Kitchens, *J. Org. Chem.*, 1972, **37**, 1.
4. R. Trave, A. Marchesini and L. Garanti, *Gazzetta*, 1970, **100**, 1061.
5. C. Enzell, *Acta Chem. Scand.*, 1962, **16**, 1553.
6. S. Nagahama, *Bull. Chem. Soc. Japan*, 1960, **33**, 1467.
7. S. Ito, K. Endo, T. Yoshida, M. Yatagai and M. Kodama, *Chem. Comm.*, 1967, 186.
8. H. G. Grant and M. D. Sutherland, *Austral. J. Chem.*, 1973, **26**, 2183.
9. B. F. Hegarty, J. R. Kelly, R. J. Park and M. D. Sutherland, *Austral. J. Chem.*, 1970, **23**, 107.
10. H. Irie, H. Kimura, N. Otani, K. Ueda and S. Uyeo, *Chem. Comm.*, 1967, 678.
11. Y. Katsuda, T. Chikamoto, and Y. Inouye, *Bull. Agric. Chem. Soc. Japan*, 1958, **22**, 427; 1959, **23**, 174.



- A. G. Hortmann, D. S. Daniel and J. E. Martinelli, *J. Org. Chem.*, 1973, **38**, 728, and refs. therein.
- R. Grandi, A. Marchesini, U. M. Pagnoni and R. Trave, *Tetrahedron*, 1974, **30**, 3821.
- P. R. Jefferies and G. K. Worth, *Tetrahedron*, 1973, **29**, 903.
- M. Yamasaki, *Chem. Comm.*, 1972, 606.
- L. H. Zalkow and M. G. Clower, *Tetrahedron Letters*, 1975, 75.
- R. Grandi, A. Marchesini, U. M. Pagnoni, R. Trave and L. Garanti, *Tetrahedron Letters*, 1973, 1765.
- H. De Broissia, J. Levisalles and H. Rudler, *Chem. Comm.*, 1972, 855, and refs. therein.
- R. B. Bates, C. D. Green and T. C. Sneath, *Tetrahedron Letters*, 1969, 3461.
- M. Holub, J. Tax, P. Sedmera and F. Sorm, *Coll. Czech. Chem. Comm.*, 1970, **35**, 3597.

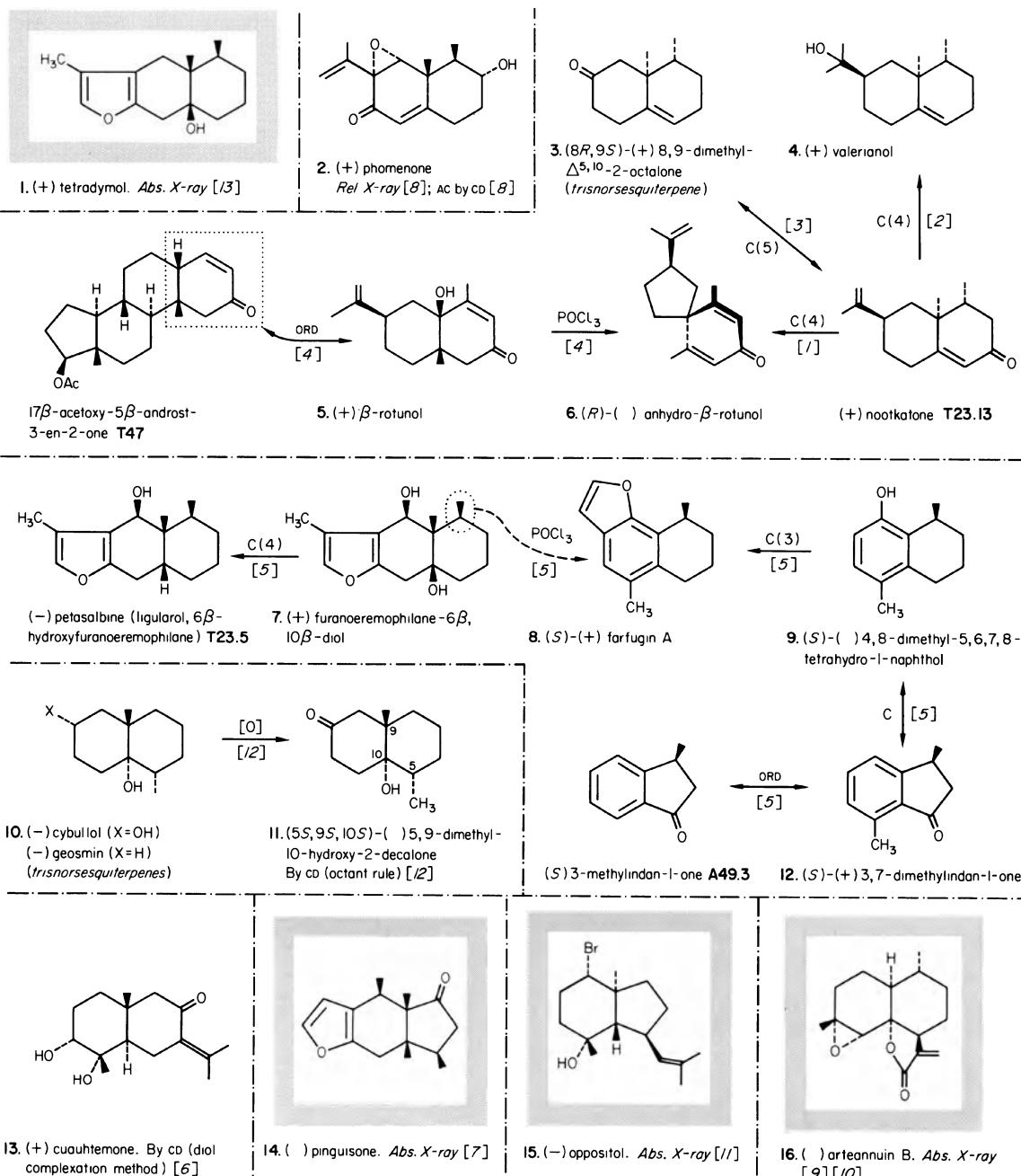
# T<sub>6'</sub>

## Caryophyllene group, betulenols; vertisporin



- R. I. Crane, C. Eck, W. Parker, A. B. Penrose, T. F. W. McKillop, D. M. Hawley, and J. M. Robertson, *Chem. Comm.*, 1972, 385.
- A. F. Cameron, C. Hannaway and J. M. Robertson, *J. Chem. Soc., Perkin II*, 1973, 1938, and refs. therein.
- M. Ul-Haque and D. Rogers, *J. Chem. Soc., Perkin II*, 1974, 228.
- U. R. Nayak and S. Dev, *Tetrahedron*, 1968, 24, 4099.
- H. Minato, T. Katayama and K. Tori, *Tetrahedron Letters*, 1975, 2579.
- W. C. Evans, G. R. Ramage and J. L. Simonsen, *J. Chem. Soc.*, 1934, 1806.
- M. Holub, V. Herout, M. Horak and F. Sorm, *Coll. Czech. Chem. Comm.*, 1959, 24, 3730.
- D. M. Hawley, G. Ferguson, T. F. W. McKillop and J. M. Robertson, *J. Chem. Soc. (B)*, 1969, 599.

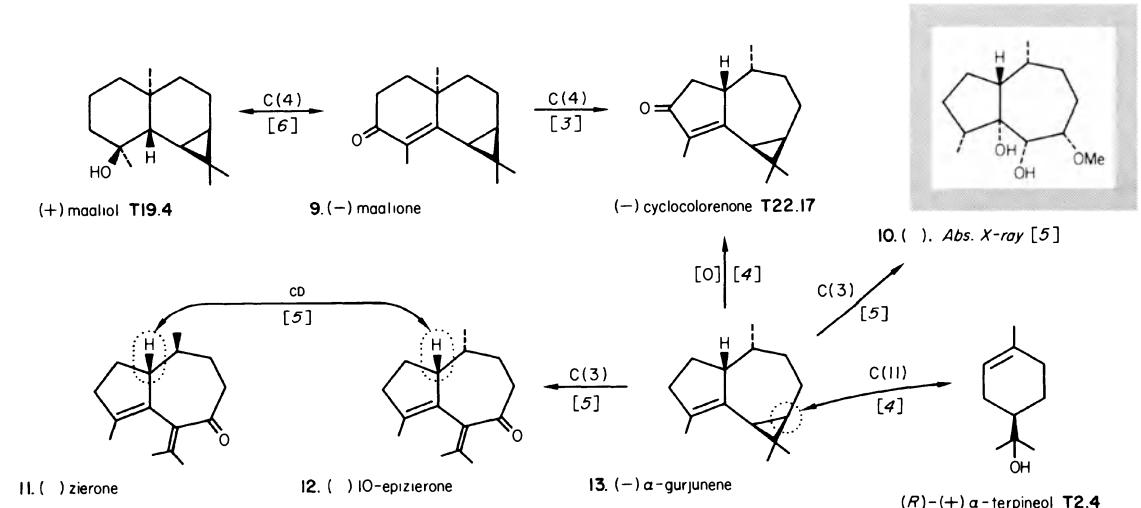
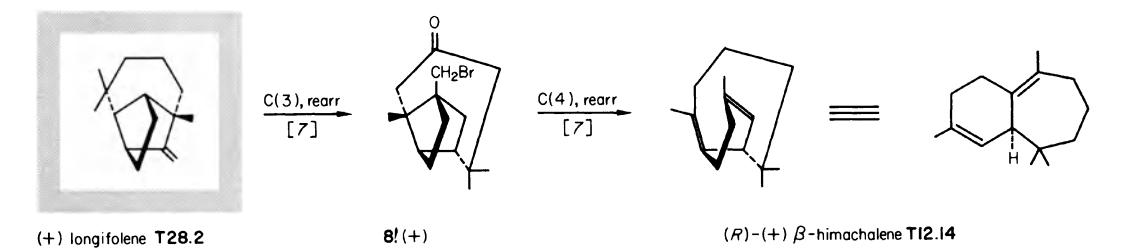
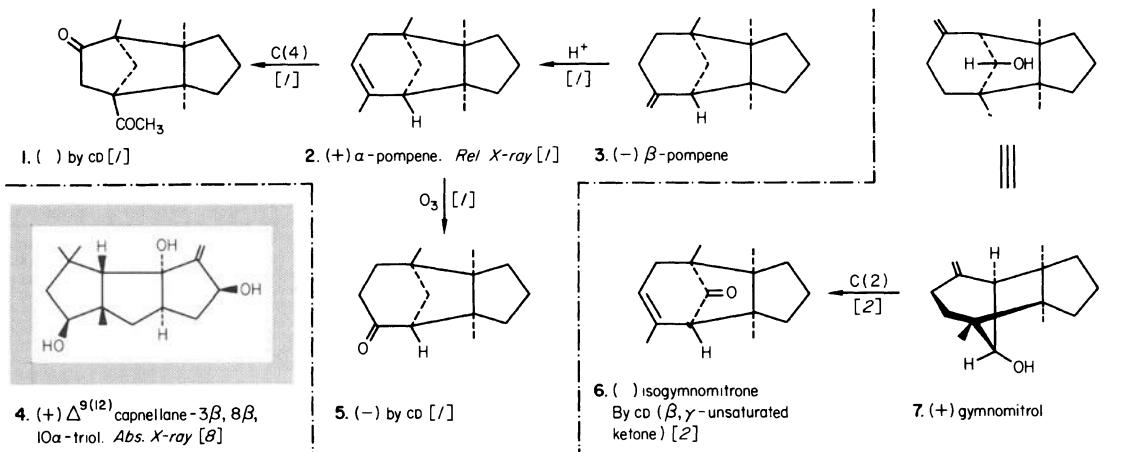
**Further sesquiterpenes and norsesquiterpenes  
based on decalin and perhydroindane skeletons**



1. D. Caine and C.-Y. Chu, *Tetrahedron Letters*, 1974, 703.
2. H. C. Odom and A. R. Pinder, *J. Chem. Soc., Perkin I*, 1972, 2193.
3. B. Maurer, M. Fracheboud, A. Griedel and G. Ohloff, *Helv. Chim. Acta*, 1972, 55, 2371.
4. H. Hiniko, K. Aota, D. Kuwano, and T. Takemoto, *Tetrahedron*, 1971, 27, 4831.
5. M. Tada, Y. Moriyama, Y. Tanahashi and T. Takahashi, *Tetrahedron Letters*, 1972, 5251; 5255.
6. K. Nakanishi, R. Crouch, I. Miura, X. Dominguez, A. Zamudio and R. Villarreal, *J. Amer. Chem. Soc.*, 1974, 96, 609.
7. A. Corbella, P. Gariboldi, G. Jommi, F. Orsini, A. DeMarco and A. Immirzi, *J. Chem. Soc., Perkin I*, 1974, 1875.
8. C. Riche, C. Pascard-Billy, M. Devys, A. Gaudemer and M. Barbier, *Tetrahedron Letters*, 1974, 2765.
9. M. R. Uskokovic, T. H. Williams and J. F. Blount, *Helv. Chim. Acta*, 1974, 57, 600.
10. D. G. Leppard, M. Rey, A. S. Dreiding and R. Grieb, *Helv. Chim. Acta*, 1974, 57, 602.
11. S. S. Hall, D. J. Faulkner, J. Fayos and J. Clardy, *J. Amer. Chem. Soc.*, 1973, 95, 7187.
12. W. A. Ayer and M. G. Paice, *Canad. J. Chem.*, 1976, 54, 910.
13. P. W. Jennings, S. K. Reeder, J. C. Hurley, C. N. Caughlan and G. D. Smith, *J. Org. Chem.*, 1974, 39, 3392; P. W. Jennings, personal communication.

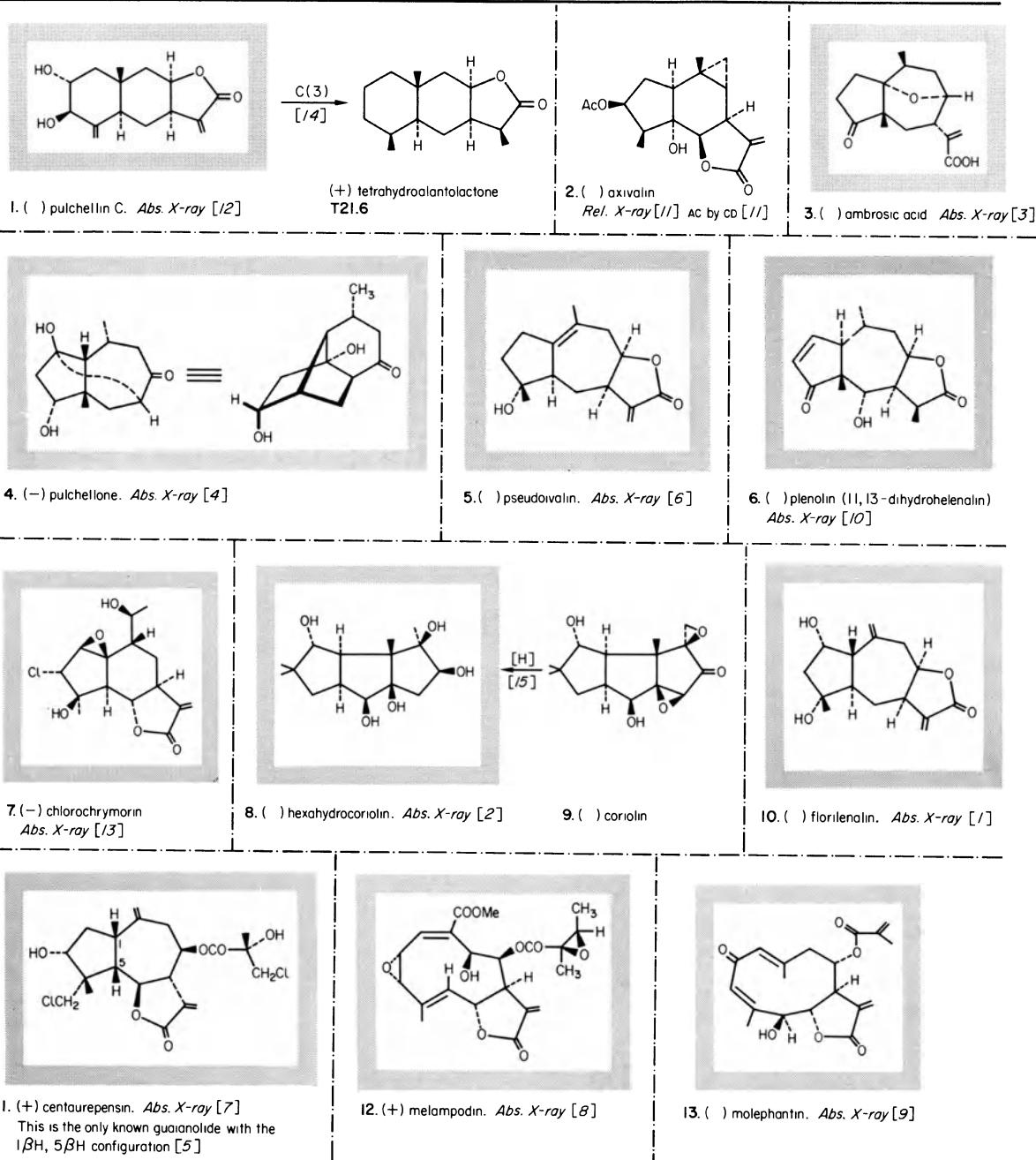
# T<sup>8'</sup>

Gymnomitrol, pompenes, zierone etc.

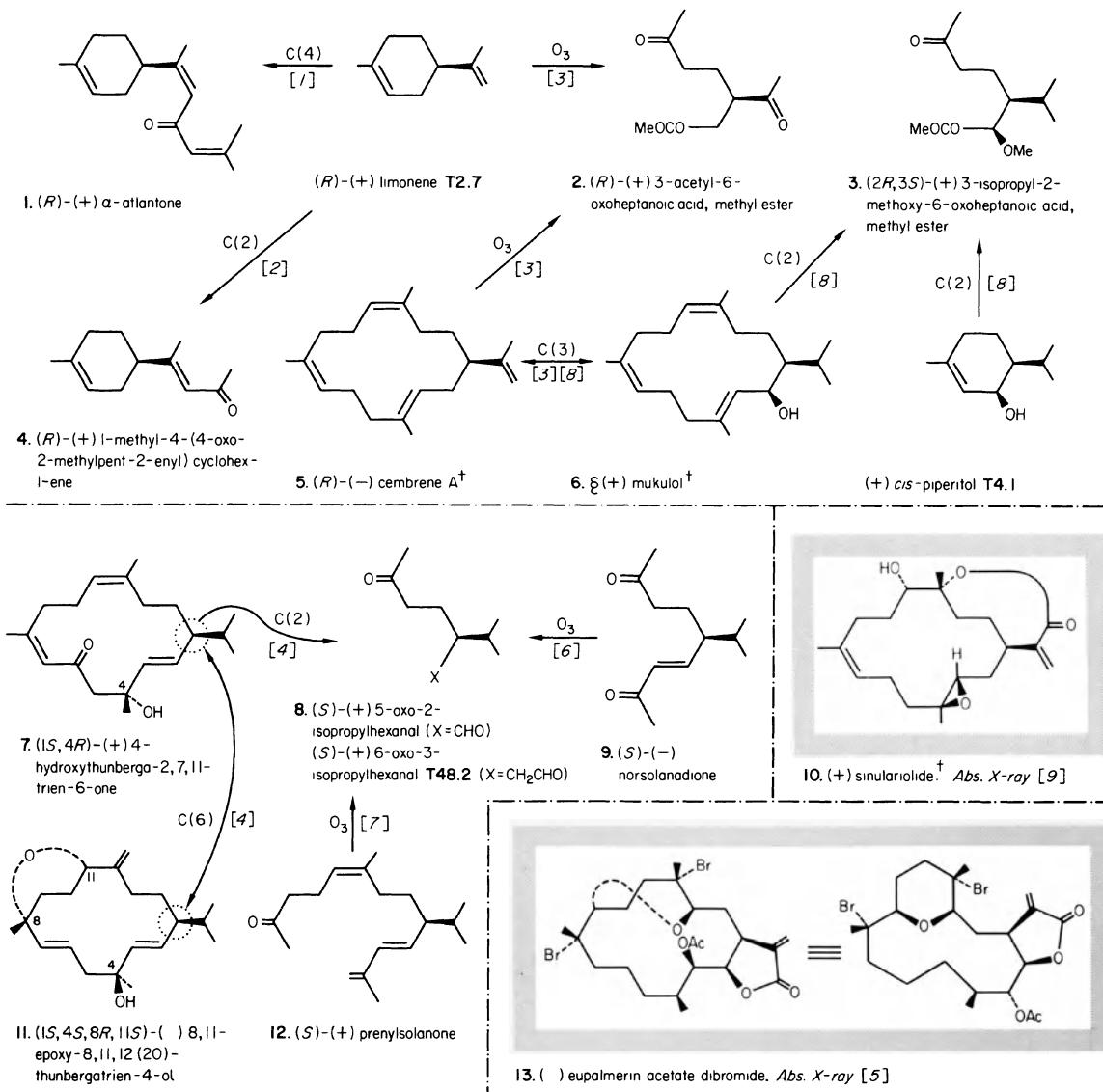


1. A. Matsuo, H. Nozaki, M. Nakayama, Y. Kushi, S. Hayashi and N. Kamijo, *Tetrahedron Letters*, 1975, 241.
2. J. D. Connolly, A. E. Harding and I. M. S. Thornton, *J. Chem. Soc., Perkin I*, 1974, 2487.
3. D. Caine and P. F. Ingvalson, *J. Org. Chem.*, 1972, 37, 3751.
4. M. Palmade, P. Pesnelle, J. Streith and G. Ourisson, *Bull. Soc. chim. France*, 1963, 1950.
5. H. Takeshita, M. Hirama and S. Ito, *Tetrahedron Letters*, 1972, 1775; S. Ito, H. Takeshita, M. Hirama and Y. Fukazawa, *Ibid*, 9.
6. R. B. Bates, G. Büchi, T. Matsuura and R. R. Shaffer, *J. Amer. Chem. Soc.*, 1960, 82, 2327.
7. G. Mehta and S. K. Kapoor, *J. Org. Chem.*, 1974, 39, 2618.
8. M. Kaisin, Y. M. Sheikh, L. J. Durham, C. Djerassi, B. Tursch, D. Dalozze, J. C. Braekman, D. Losman and R. Karlsson, *Tetrahedron Letters*, 1974, 2239.

Further sesquiterpene Bijvoet determinations,  
including guianolides and pseudoguaianolides



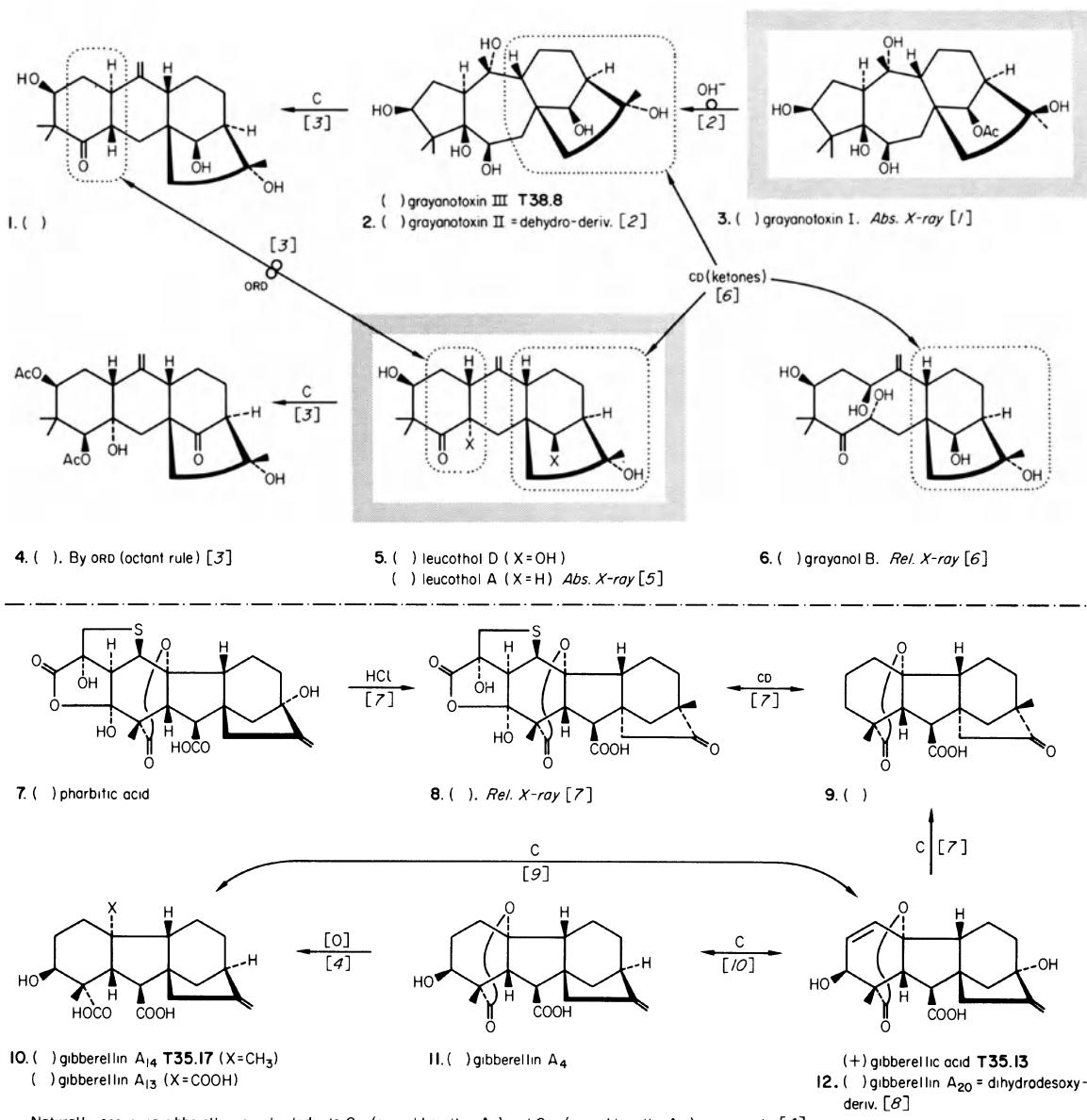
- M. Kozuka, K. Lee, A. T. McPhail and K. D. Onan, *Chem. Pharm. Bull. (Japan)*, 1975, **23**, 1895.
- H. Nakamura, T. Takita, H. Umezawa, M. Kunishima, Y. Nakayama and Y. Itatka, *J. Antibiotics (Japan)*, 1974, **27**, 301.
- S. Inayama, A. Itai and Y. Itatka, *Tetrahedron Letters*, 1974, 809.
- S. Inayama, T. Kamawata, T. Ohkura, A. Itai and Y. Itatka, *Chem. Pharm. Bull. Japan*, 1975, **23**, 2998.
- A. Corbella, P. Gariboldi, G. Jommi, F. Orsini and G. Ferrari, *Phytochemistry*, 1974, **13**, 459.
- R. Gitany, G. D. Anderson, R. S. McEwen, *Acta Cryst.*, 1974, **B30**, 1900.
- J. Harley-Mason, A. T. Hewson, O. Kennard and R. C. Pettersen, *Chem. Comm.*, 1972, 460.
- S. Neidle and D. Rogers, *Chem. Comm.*, 1972, 140.
- K.-H. Lee, H. Furukawa, M. Kozuka, H.-C. Huang, P. A. Luhan and A. T. McPhail, *Chem. Comm.*, 1973, 476.
- K.-H. Lee, T. Ibuka, A. T. McPhail, K. D. Onan, T. A. Geissman and T. G. Waddell, *Tetrahedron Letters*, 1974, 1149.
- G. D. Anderson, R. S. McEwen and W. Herz, *Acta Cryst.*, 1973, **B29**, 2783.
- M. Currie and G. A. Sim, *J. Chem. Soc., Perkin II*, 1973, 400.
- T. Osawa, A. Suzuki, S. Tamura, Y. Ohashi and Y. Sasada, *Tetrahedron Letters*, 1973, 5135.
- H. Yoshioka, T. J. Mabry, N. Dennis and W. Herz, *J. Org. Chem.*, 1970, **35**, 627.
- S. Takahashi, H. Naganawa, H. Iinuma, T. Takita, K. Maeda and H. Umezawa, *Tetrahedron Letters*, 1971, 1955.



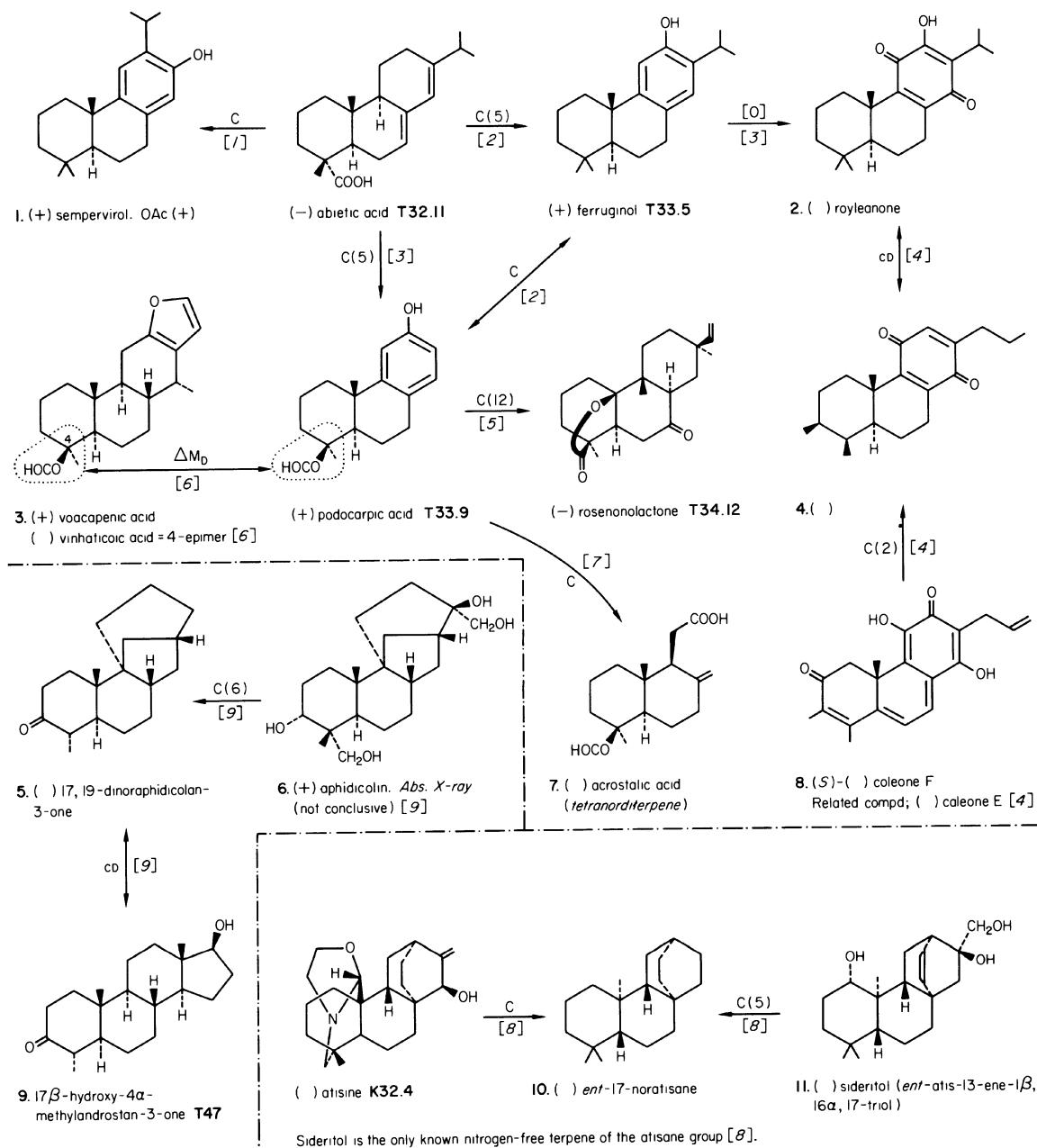
<sup>†</sup>geometrical isomerism in these cembrane (thunbergane) derivatives is not implied.

- R. J. Crawford, W. F. Erman and C. D. Broaddus, *J. Amer. Chem. Soc.*, 1972, **94**, 4298.
- D. R. Adams, S. P. Bhatnagar, R. C. Cookson and R. M. Tuddenham, *Tetrahedron Letters*, 1974, 3903.
- V. D. Patil, U. R. Nayak and S. Dev, *Tetrahedron*, 1973, **29**, 341.
- A. J. Aasen, N. Junker, C. R. Enzell, J.-E. Berg and A. M. Pilotti, *Tetrahedron Letters*, 1975, 2607.
- D. Van der Helm, S. E. Ealick and A. J. Weinheimer, *Cryst. Struct. Comm.*, 1974, **3**, 167.
- A. J. Aasen and C. R. Enzell, *Acta Chem. Scand.*, 1975, **B29**, 528.
- A. J. Aasen, T. Nishida, C. R. Enzell and M. Devreux, *Acta Chem. Scand.*, 1976, **B30**, 178.
- R. S. Prasad and S. Dev, *Tetrahedron*, 1972, **32**, 1437.
- B. Tursch, J. C. Braekman, D. Dalozé, M. Herin, R. Karlsson and D. Losman, *Tetrahedron*, 1975, **31**, 129.

## Grayanotoxins; pharbitic acid and further gibberellins



- D. W. Engel, K. Zechmeister and W. Hoppe, *Tetrahedron Letters*, 1972, 1323.
- H. Kakisawa, T. Kozima, M. Yanai and K. Nakanishi, *Tetrahedron*, 1965, 21, 3091, and refs. therein.
- H. Hiniko, S. Koriyama and T. Takemoto, *Tetrahedron Letters*, 1972, 3831.
- J. R. Bearder and J. MacMillan, *Chem. Comm.*, 1976, 421.
- A. Furusaki, N. Hamanaka, H. Miyakoshi, T. Okuno and T. Matsumoto, *Chem. Letters*, 1972, 783.
- S. Fushiya, H. Hiniko, and T. Takemoto, *Tetrahedron Letters*, 1974, 183.
- T. Yokota, S. Yamazaki, N. Takahashi, and Y. Iitaka, *Tetrahedron Letters*, 1974, 2957, and refs. therein.
- N. Takahashi, N. Morofushi, T. Yokota and S. Tamura, *Tetrahedron Letters*, 1967, 1065.
- See p. T35.
- J. F. Grove, *Quart. Revs.*, 1961, 15, 56.



1. T. Matsumoto, S. Imai, T. Matsubayashi, F. Tsunenaga and K. Fukui, *Chem. Letters*, 1972, 1159.

2. See p. T33.

3. O. E. Edwards, G. Fenwick and M. Los, *Canad. J. Chem.*, 1962, **40**, 1540.

4. P. Rüedi and C. H. Eugster, *Helv. Chim. Acta*, 1972, **55**, 1994; 1973, **56**, 1129.

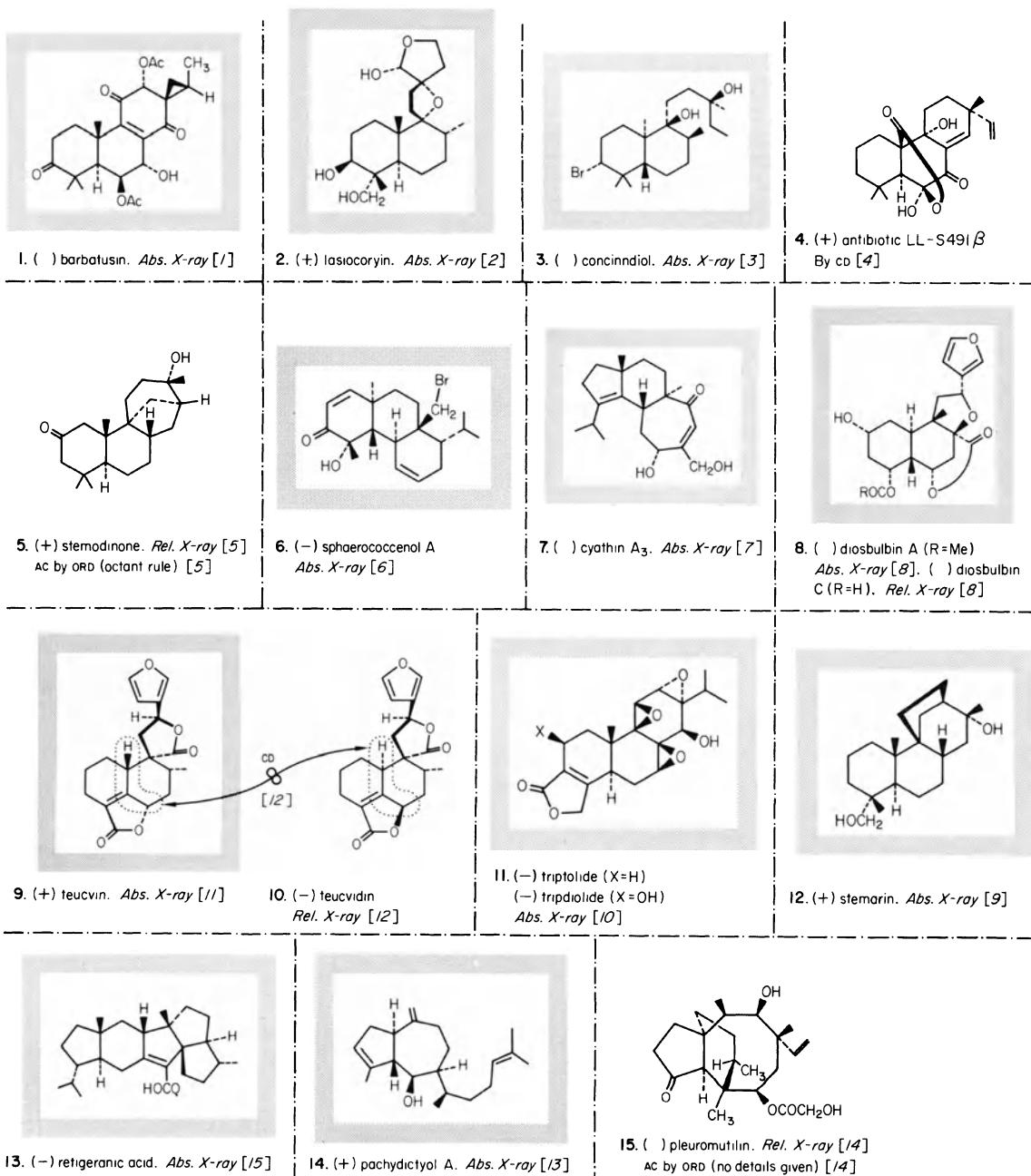
5. W. S. Hancock, L. N. Mander and R. A. Massy-Westropp, *J. Org. Chem.*, 1973, **38**, 4090.

6. F. E. King, D. H. Godson and T. J. King, *J. Chem. Soc.*, 1955, 1117.

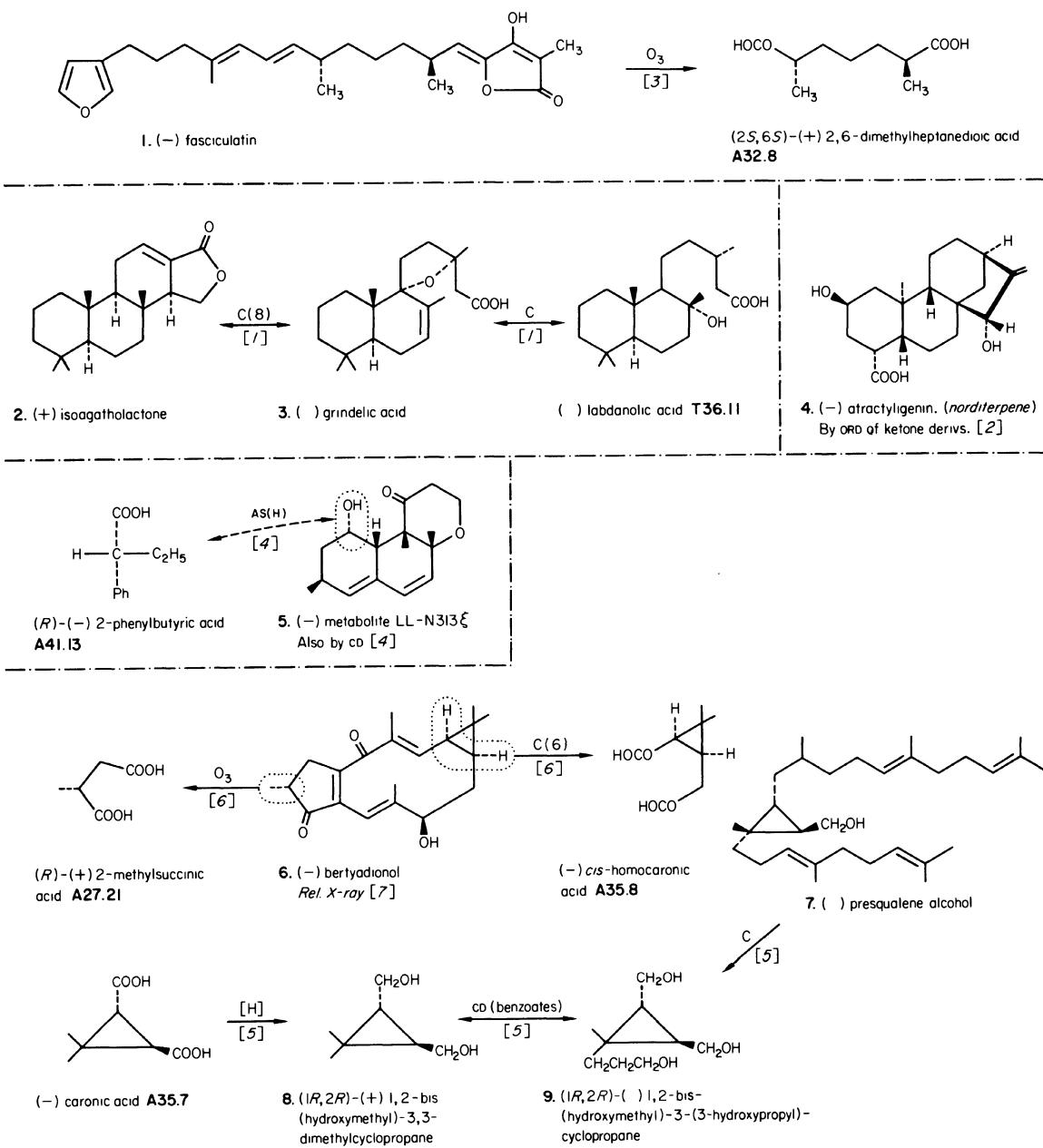
7. M. Sato, T. Ruo, T. Hayashi, H. Kakisawa, T. Miyaki, H. Yamamoto and K. Fujisawa, *Tetrahedron Letters*, 1974, 2183.

8. W. A. Ayer, J. H. Ball, B. Rodriguez and S. Valverde, *Canad. J. Chem.*, 1974, **52**, 2792.

9. W. Dalziel, B. Hesp, K. M. Stevenson and J. A. J. Jarvis, *J. Chem. Soc., Perkin I*, 1973, 2841.

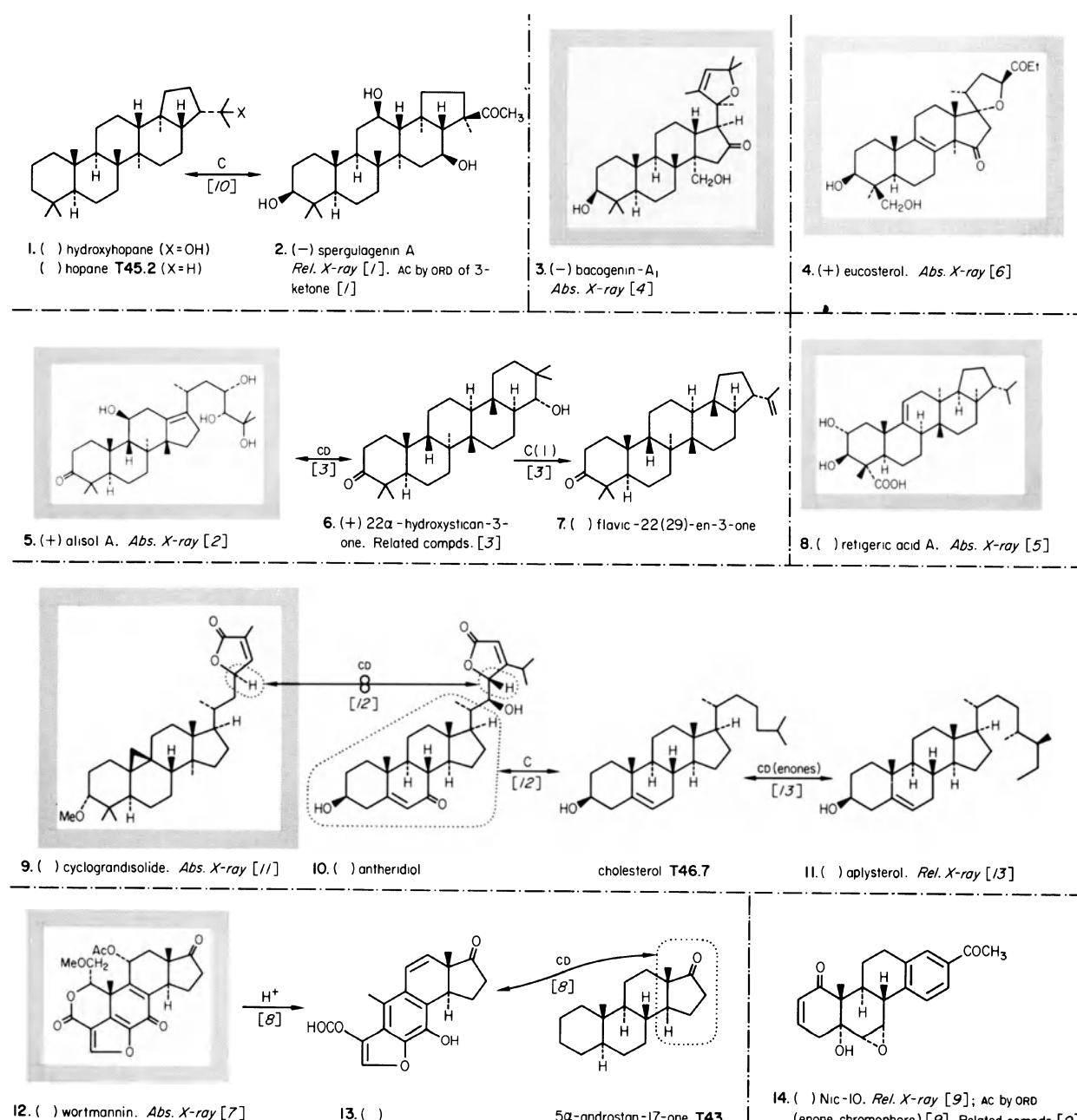


1. A. H.-J. Wang, I. C. Paul, R. Zelnik, K. Mizuta and D. Lavie, *J. Amer. Chem. Soc.*, 1973, **95**, 598.
2. G. Gafner, G. J. Kruger and D. E. A. Rivett, *Chem. Comm.*, 1974, 249.
3. J. J. Sims, G. H. Y. Lin, R. M. Wing and W. Fenical, *Chem. Comm.*, 1973, 470.
4. G. A. Ellestad, M. P. Kunstmann, P. Mirando and G. O. Morton, *J. Amer. Chem. Soc.*, 1972, **94**, 6206.
5. P. S. Manchand, J. D. White, H. Wright and J. Clardy, *J. Amer. Chem. Soc.*, 1973, **95**, 2705.
6. W. Fenical, J. Fine and J. Clardy, *Tetrahedron Letters*, 1976, 731.
7. W. A. Ayer and L. L. Carstens, *Canad. J. Chem.*, 1973, **51**, 3157.
8. K. Kamiya, Y. Wada, T. Komori, M. Arita and T. Kawasaki, *Tetrahedron Letters*, 1972, 1869, and refs. therein.
9. P. S. Manchand and J. F. Blount, *Chem. Comm.*, 1975, 894.
10. S. M. Kupchan, W. A. Court, R. G. Dailey, C. J. Gilmore and R. F. Bryan, *J. Amer. Chem. Soc.*, 1972, **94**, 7194.
11. E. Fujita, I. Uchida, T. Fujita, N. Masaki and K. Osaki, *Chem. Comm.*, 1973, 793.
12. I. Uchida, T. Fujita and E. Fujita, *Tetrahedron*, 1975, **31**, 841.
13. D. R. Hirschfeld, W. Fenical, G. H. Y. Lin, R. M. Wing, P. Radlick and J. J. Sims, *J. Amer. Chem. Soc.*, 1973, **95**, 4049.
14. M. Dobler and B. G. Dürr, *Cryst. Struct. Comm.*, 1975, **4**, 259.
15. M. Kaneda, R. Takahashi, Y. Iitaka and S. Shibata, *Tetrahedron Letters*, 1972, 4609.

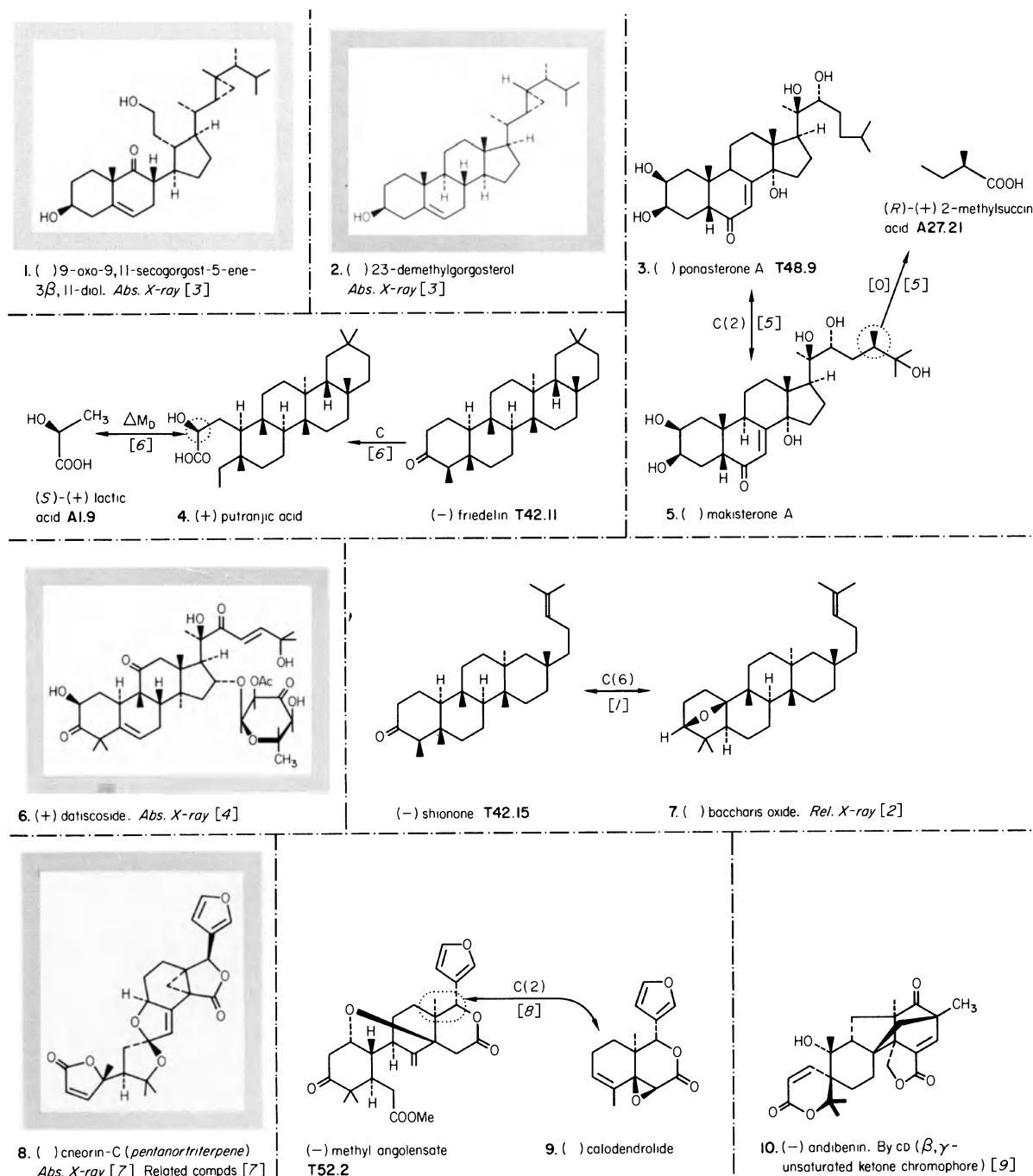


- G. Cimino, D. De Rosa, S. De Stefano and L. Minale, *Tetrahedron*, 1974, **30**, 645 and refs. therein.
- F. Piozzi, A. Quilico, R. Mondelli, T. Ajello, V. Sprio and A. Melera, *Tetrahedron*, 1966, *8th suppl. part II*, 515.
- E. Cafieri, E. Fattorusso, C. Santacroce and L. Minale, *Tetrahedron*, 1972, **28**, 1579.
- W. J. McGahren, G. A. Ellestad, J. E. Lancaster, G. O. Morton and M. P. Kunstmann, *J. Amer. Chem. Soc.*, 1974, **96**, 1616.
- G. Popjak, J. Edmond and S.-M. Wong, *J. Amer. Chem. Soc.*, 1973, **95**, 2713.
- E. L. Ghisalberti, P. R. Jefferies, R. F. Toia and G. K. Worth, *Tetrahedron*, 1974, **30**, 3269, and refs. therein.
- E. N. Maslen, R. F. Toia, A. H. White and A. C. Willis, *J. Chem. Soc., Perkin II*, 1975, 1684.

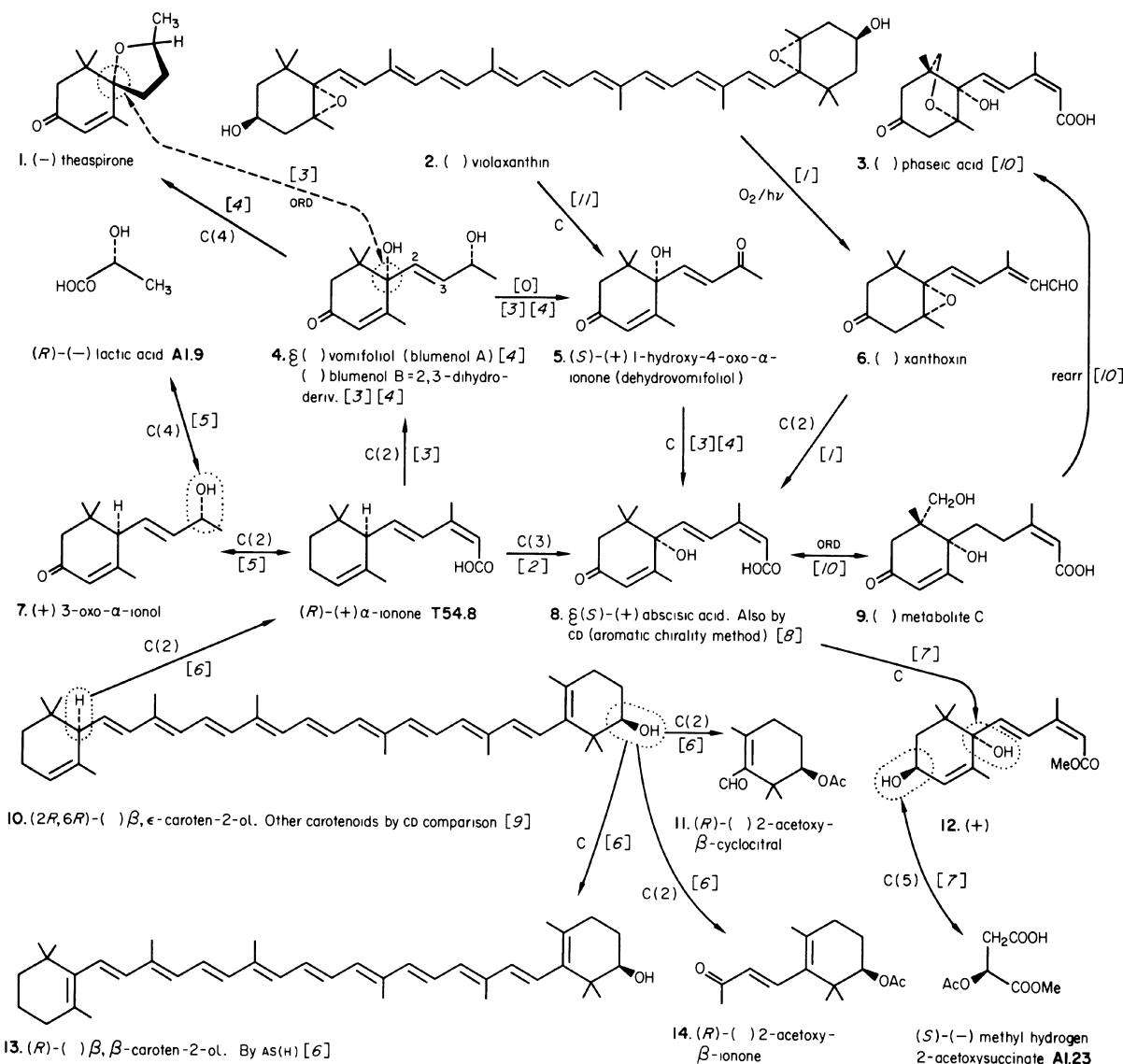
## Further pentacyclic triterpenes and steroids



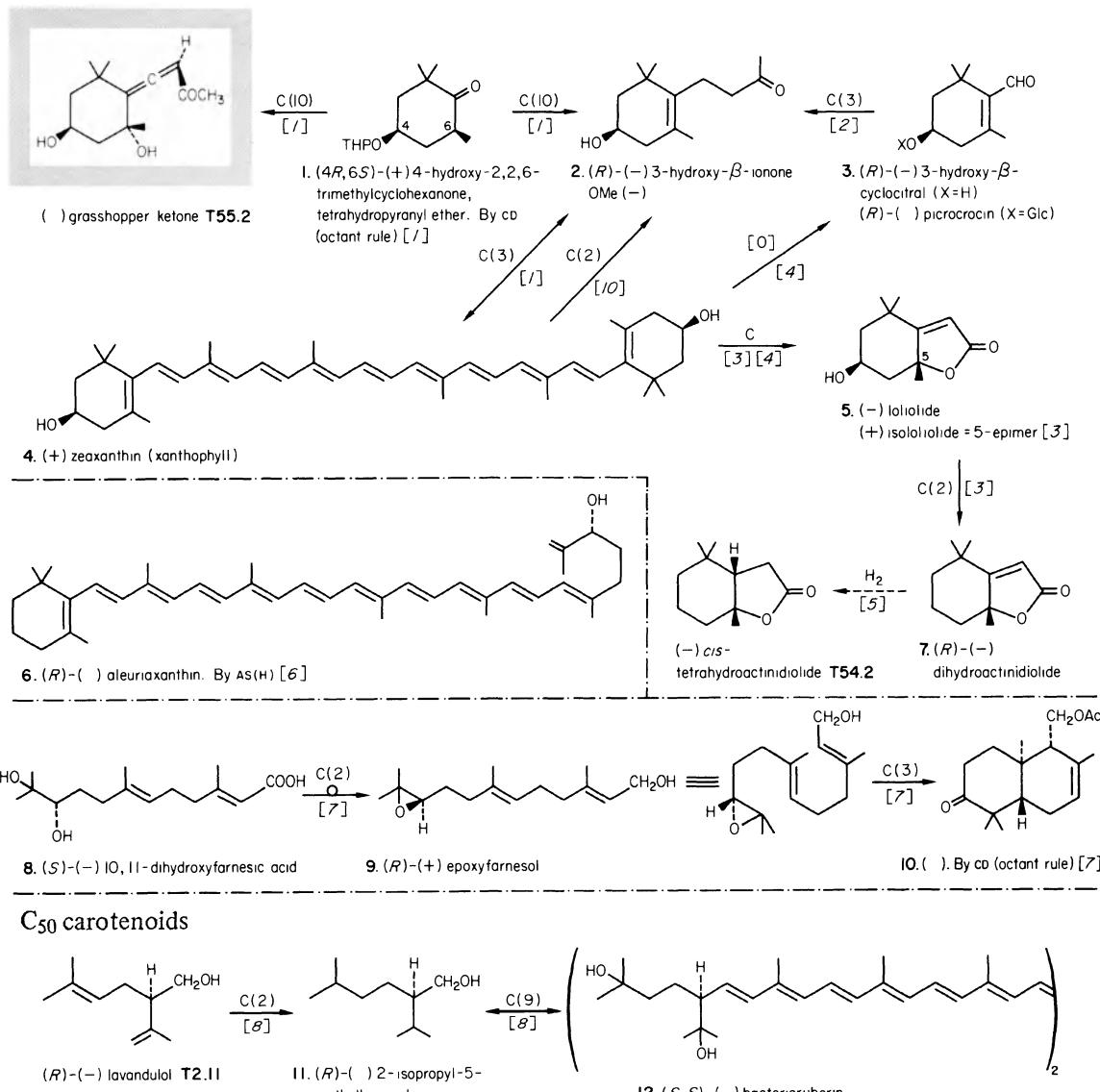
1. I. Kitagawa, H. Suzuki, I. Yosioka, T. Akiyama and J. V. Silverton, *Tetrahedron Letters*, 1974, 1173.
2. T. Murata, M. Shinohara, T. Hirata, K. Kamiya, M. Nishikawa and M. Miyamoto, *Tetrahedron Letters*, 1968, 103.
3. W. J. Chin, R. E. Corbett, C. K. Heng and A. L. Wilkins, *J. Chem. Soc., Perkin I*, 1973, 1437.
4. K. Kawai, Y. Iitaka, S. Shibata, D. K. Kulshreshtha and R. P. Rastogi, *Acta Cryst.*, 1973, B29, 2947.
5. R. Takahashi and Y. Iitaka, *Acta Cryst.*, 1972, B28, 764.
6. W. T. L. Sidwell, C. Tamm, R. Ziegler, J. Finer and J. Clardy, *J. Amer. Chem. Soc.*, 1975, 97, 3518.
7. T. J. Petcher, H.-P. Weber and Z. Kis, *Chem. Comm.*, 1972, 1061.
8. J. MacMillan, T. J. Simpson, A. E. Vanstone and S. K. Yeboah, *J. Chem. Soc., Perkin I*, 1972, 2892; J. MacMillan, A. E. Vanstone and S. K. Yeboah, *ibid.*, 2898.
9. M. J. Begley, L. Crombie, P. J. Ham and D. A. Whiting, *J. Chem. Soc., Perkin I*, 1976, 304.
10. I. Kitagawa, H. Suzuki and I. Yosioka, *Chem. Pharm. Bull. Japan*, 1975, 23, 2087.
11. F. H. Allen, J. P. Kutney, J. Trotter and N. D. Westcott, *Tetrahedron Letters*, 1971, 283.
12. J. A. Edwards, J. Sundeen, W. Salmon, T. Iwadare and J. H. Fried, *Tetrahedron Letters*, 1972, 791, and refs. therein.
13. P. De Luca, M. De Rosa, L. Minale, R. Puliti, G. Sodano, F. Giordano and L. Mazzarella, *Chem. Comm.*, 1973, 825.



1. K. Tachibana and T. Takahashi, *Tetrahedron Letters*, 1975, 1857.
2. F. Mo, *Acta Cryst.*, 1973, B29, 1796.
3. E. L. Enwall, D. van der Helm, I. N. Hsu, T. Pattabhiraman, F. J. Schmitz, R. L. Spraggins and A. J. Weinheimer, *Chem. Comm.*, 1972, 215.
4. S. M. Kupchan, C. W. Sigel, L. J. Guttman, R. J. Restivo and R. F. Bryan, *J. Amer. Chem. Soc.*, 1972, 94, 1353.
5. B. Danieli, G. Ferrari, J. Kreplinsky, G. Palmisano and D. Sardini, *Chem. Comm.*, 1974, 745, and refs. therein.
6. R. Aoyagi, Y. Moriyama, T. Tsuyuki and T. Takahashi, *Bull. Chem. Soc. Japan*, 1973, 46, 569.
7. A. Mondan and B. Epe, *Tetrahedron Letters*, 1976, 1273.
8. J. M. Cassady and C. Liu, *Chem. Comm.*, 1972, 86.
9. A. W. Dunn, R. A. W. Johnstone, B. Sklarz and T. J. King, *Chem. Comm.*, 1976, 270.



- R. S. Burden and H. F. Taylor, *Tetrahedron Letters*, 1970, 4071.
- T. Oritani and K. Yamashita, *Agric. Biol. Chem. (Japan)*, 1973, 37, 1115.
- M. N. Galbraith and D. H. S. Horn, *Chem. Comm.*, 1972, 113; 1973, 566.
- G. Weiss, M. Koreeda and K. Nakanishi, *Chem. Comm.*, 1973, 565.
- A. J. Aasen, B. Kimland and C. R. Enzell, *Acta Chem. Scand.*, 1973, 27, 2107.
- R. Buchecker, C. H. Eugster, H. Kjosen and S. Liaaen-Jensen, *Helv. Chim. Acta*, 1973, 56, 2899.
- G. Ryback, *Chem. Comm.*, 1972, 1190.
- N. Harada, *J. Amer. Chem. Soc.*, 1973, 95, 240.
- R. Buchecker, S. Liaaen-Jensen, G. Borch and H. W. Siegelman, *Phytochemistry*, 1976, 15, 1015.
- B. V. Milborrow, *Phytochemistry*, 1975, 14, 1045, and refs. therein.
- K. Mori, *Tetrahedron Letters*, 1973, 2635.



For other C<sub>50</sub> carotenoids, see [ 9 ]. Most of these can be considered from the point of view of stereochemistry as bis-(isoprenyl)-substituted C<sub>40</sub> carotenoids.

- K. Mori, *Tetrahedron Letters*, 1973, 723, 2635.
- R. Buchecker and C. H. Eugster, *Helv. Chim. Acta*, 1973, **56**, 1121.
- S. Isoe, S. B. Hyeon, S. Katsumura and T. Sakan, *Tetrahedron Letters*, 1972, 2517.
- H. Cadusch and C. H. Eugster, *Helv. Chim. Acta*, 1974, **57**, 1466.
- T. Sakan, S. Isoe and S. B. Hyeon, *Tetrahedron Letters*, 1967, 1623.
- R. Buchecker, N. Arpin and S. Liaaen-Jensen, *Phytochemistry*, 1976, **15**, 1013.
- Y. Suzuki and S. Marumo, *Tetrahedron Letters*, 1972, 1887.
- J. E. Johansen and S. Liaaen-Jensen, *Tetrahedron Letters*, 1976, 955.
- A. G. Andrewes, S. Liaaen-Jensen and O. B. Weeks, *Acta Chem. Scand.*, 1975, **B29**, 884; A. G. Andrewes, S. Liaaen-Jensen and G. Borch, *ibid*, 1974, **B28**, 737.
- R. Buchecker, P. Hamm and C. H. Eugster, *Helv. Chim. Acta*, 1974, **57**, 631.

# K'

## Alkaloids

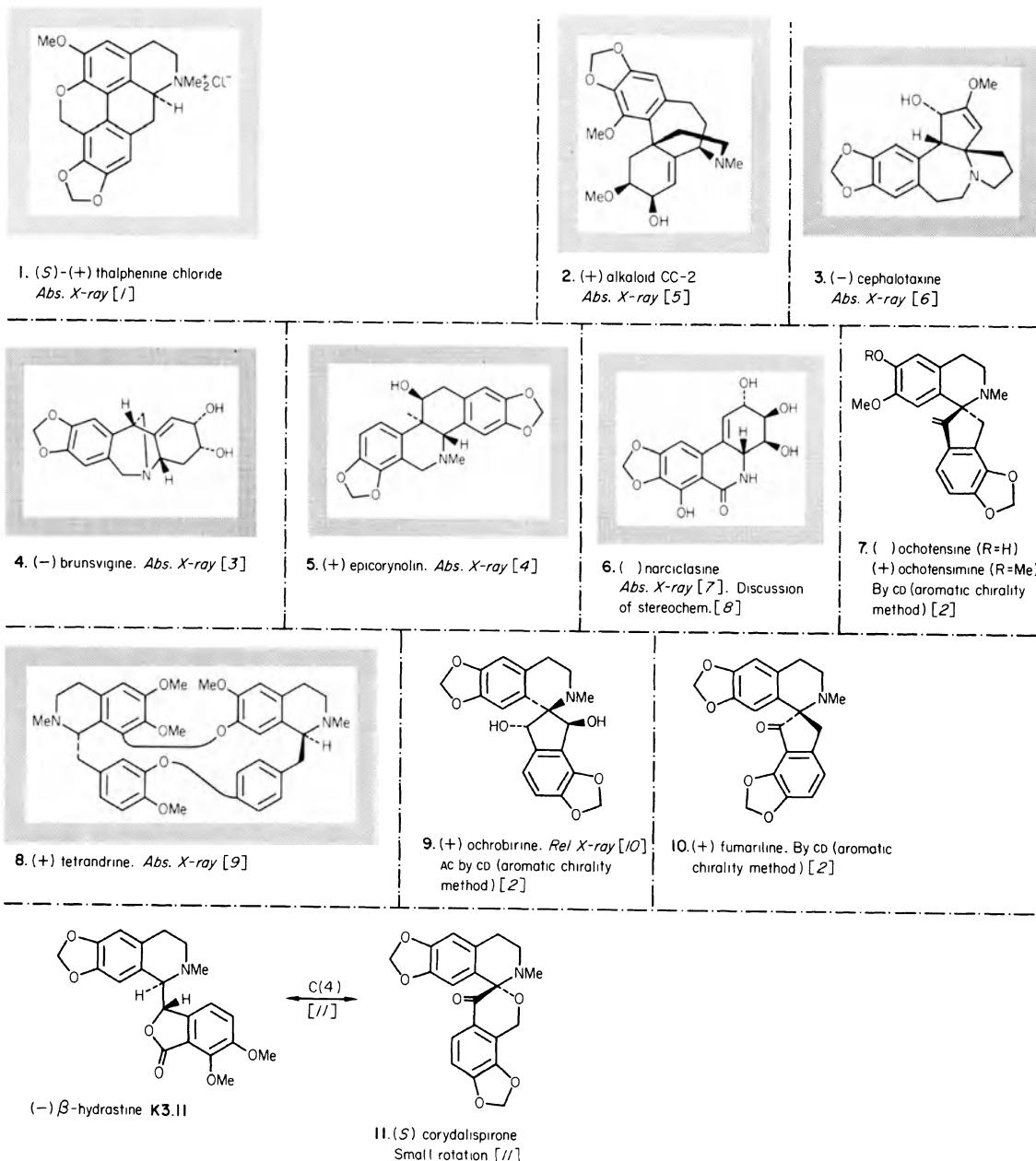
---

### Introductory Notes to Chapter K'

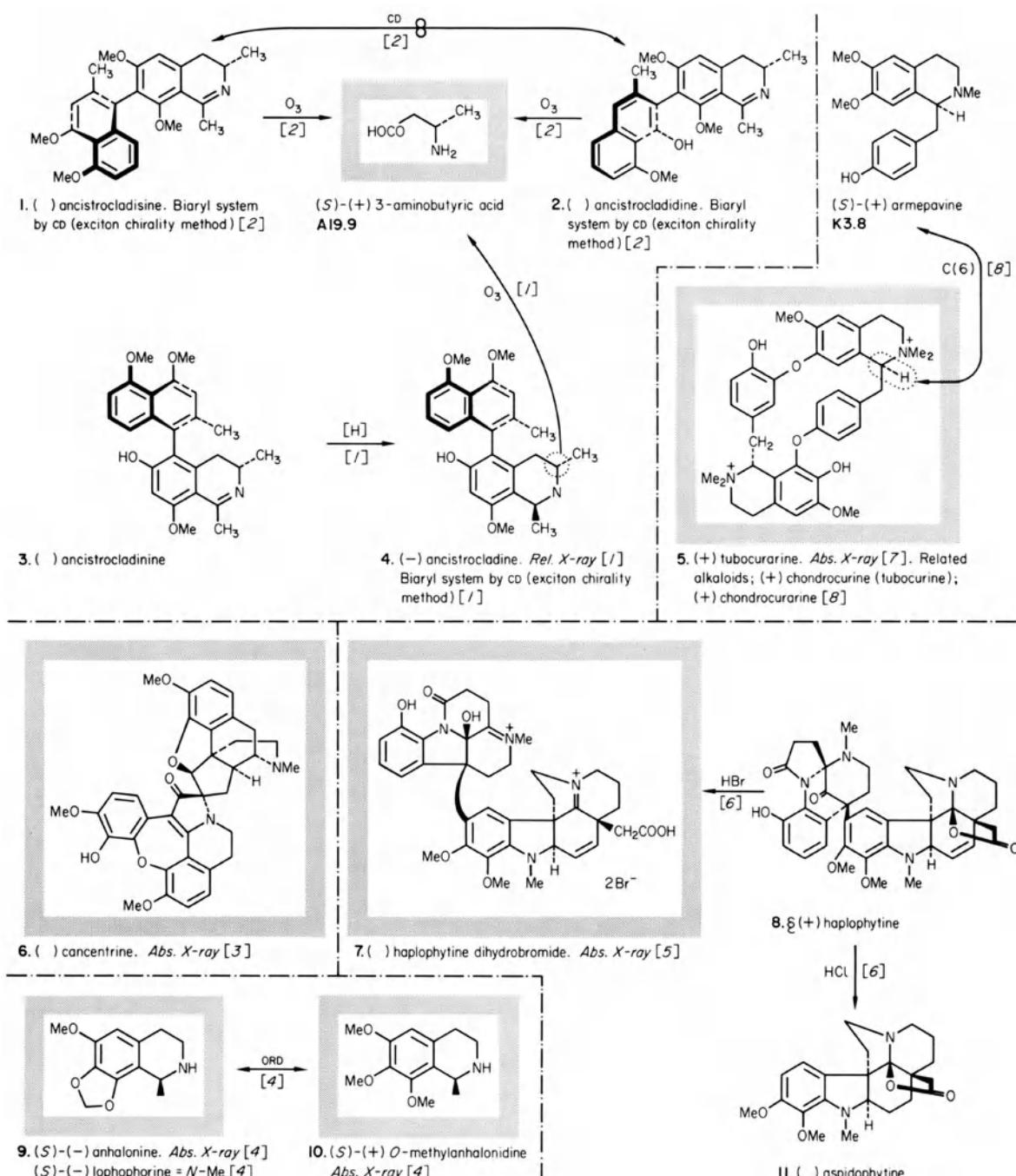
The arrangement of material is essentially the same as in Volume 1

*Alkaloids and related nitrogenous substances found in other chapters.*

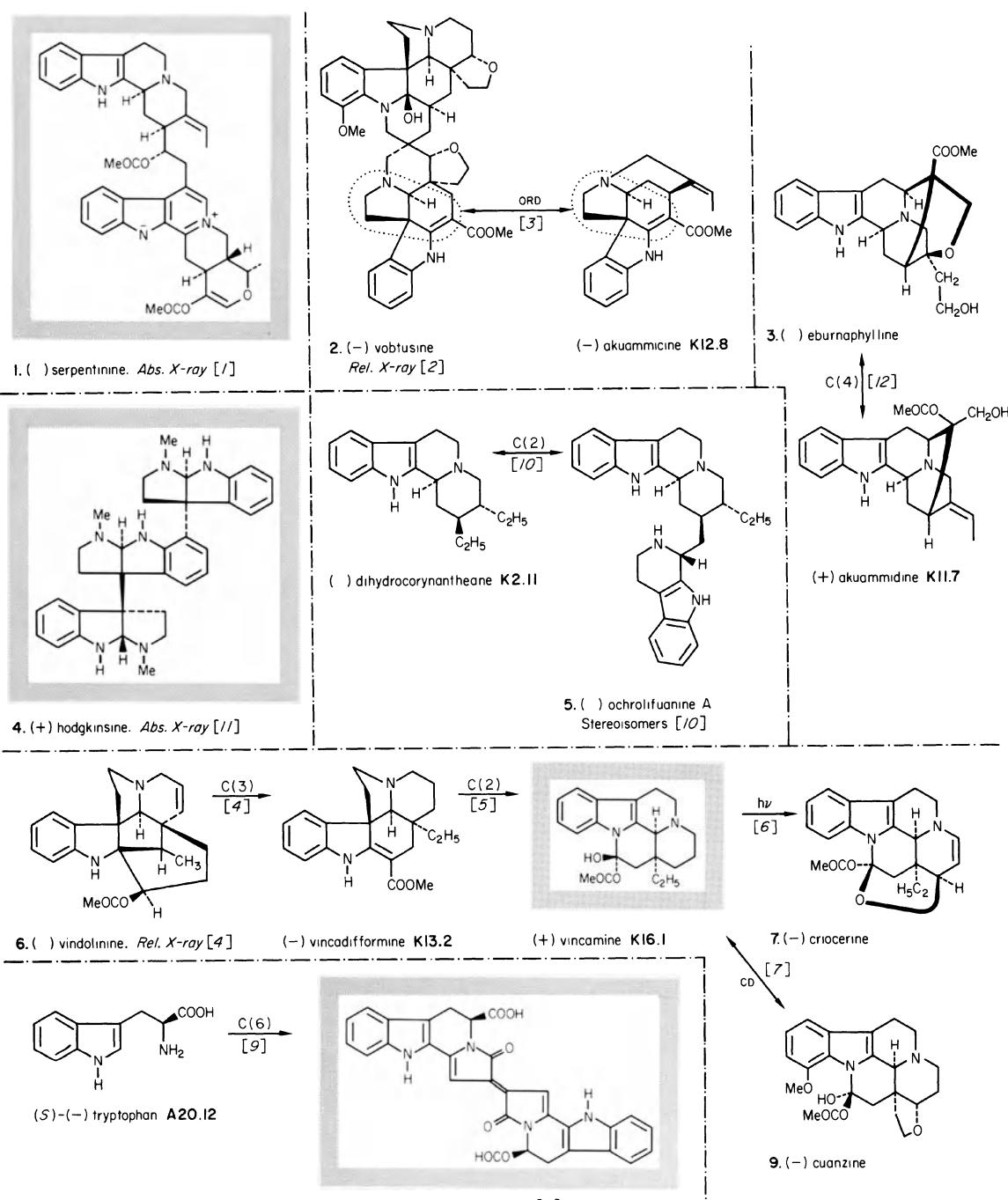
Conhydrine	A17'.9
Echiboline	A37'.9
Saxitoxin	Y12'.8
Pseurotin	Y12'.9
Roseonine	Y14'.6
Surugatoxin	Y15'.2
Amatoxins	Z8'



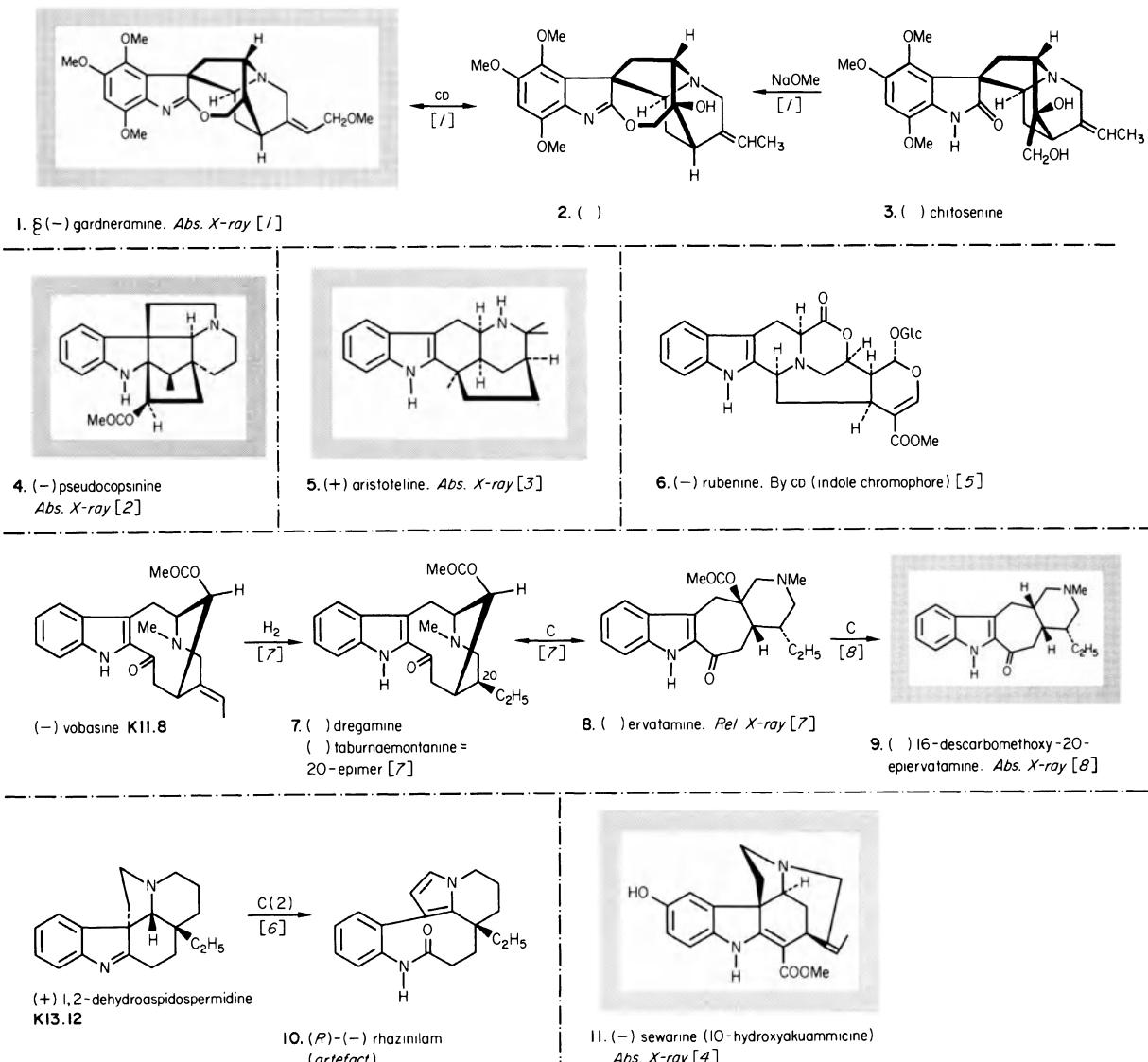
- M. Shamma, J. L. Moniot, S. Y. Yao and J. A. Stanko, *Chem. Comm.*, 1972, 408.
- M. Shamma, J. L. Moniot, R. H. F. Manske, W. K. Chan and K. Nakanishi, *Chem. Comm.*, 1972, 310.
- M. Laing and R. C. Clark, *Tetrahedron Letters*, 1974, 583.
- N. Takao, M. Kamigauchi, K. Iwasa, K. Tomita, T. Fujiwara and A. Wakahara, *Tetrahedron Letters*, 1974, 805.
- A. F. Cameron and C. Hannaway, *J. Chem. Soc., Perkin II*, 1973, 1002.
- S. K. Arora, R. B. Bates, R. A. Grady and R. G. Powell, *J. Org. Chem.*, 1974, 39, 1269.
- A. Immirzi and C. Fuganti, *Chem. Comm.*, 1972, 240.
- A. Mondon and K. Krohn, *Tetrahedron Letters*, 1972, 2085.
- C. J. Gilmore, R. F. Bryan and S. M. Kupchan, *J. Amer. Chem. Soc.*, 1976, 98, 1947.
- M. Mathew and G. J. Palenik, *Acta Cryst.*, 1975, B31, 2899.
- G. Nonaka and I. Nishioka, *Chem. Pharm. Bull. Japan*, 1975, 23, 294.



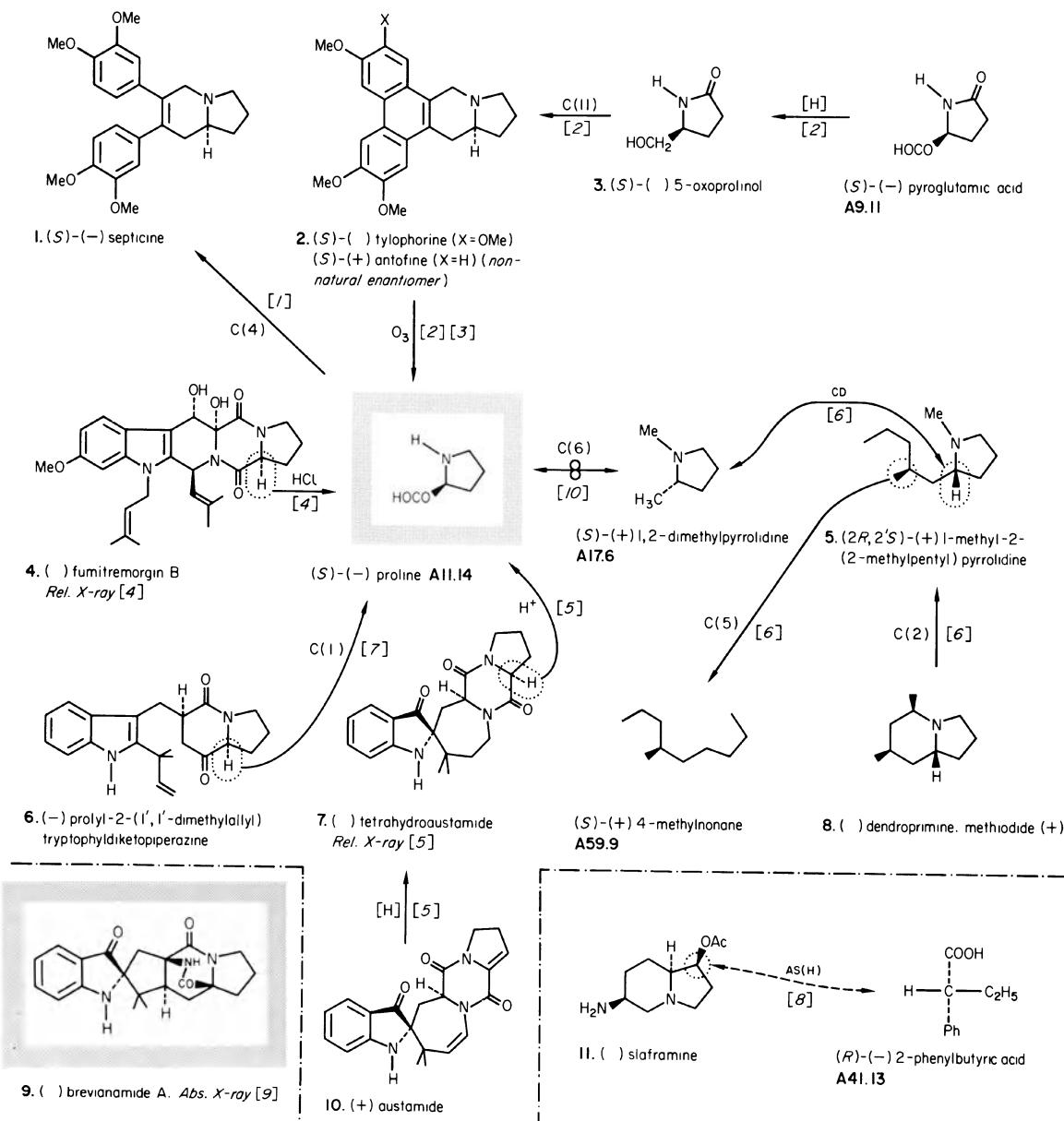
- T. R. Govindachari, R. Nagarajan, P. C. Parthasarathy, T. G. Rajagopalan, H. K. Desai, G. Kartha, S. L. Chen and K. Nakanishi, *J. Chem. Soc., Perkin I*, 1974, 1413.
- T. R. Govindachari, P. C. Parthasarathy, T. G. Rajagopalan, H. K. Desai, K. S. Ramachandran and E. Lee, *J. Chem. Soc., Perkin I*, 1975, 2134.
- G. R. Clark and G. J. Palenik, *J. Chem. Soc., Perkin II*, 1972, 1219.
- A. Brossi, J. F. Blount, J. O'Brien and S. Teitel, *J. Amer. Chem. Soc.*, 1971, 93, 6248.
- I. D. Rae, M. Rosenberger, A. G. Szabo, C. R. Willis, P. Yates, D. E. Zacharias, G. A. Jeffrey, B. Douglas, J. L. Kirkpatrick and J. A. Weisbach, *J. Amer. Chem. Soc.*, 1967, 89, 3061.
- P. Yates, F. N. MacLachlan, I. D. Rae, M. Rosenberger, A. G. Szabo, C. R. Willis, M. P. Cava, M. Behforouz, M. V. Lakshminathan and W. Zeiger, *J. Amer. Chem. Soc.*, 1973, 95, 7842.
- C. D. Reynolds and R. A. Palmer, *Acta Cryst.*, 1976, B32, 1431.
- A. J. Everett, L. A. Lowe and S. Wilkinson, *Chem. Comm.*, 1970, 1020.



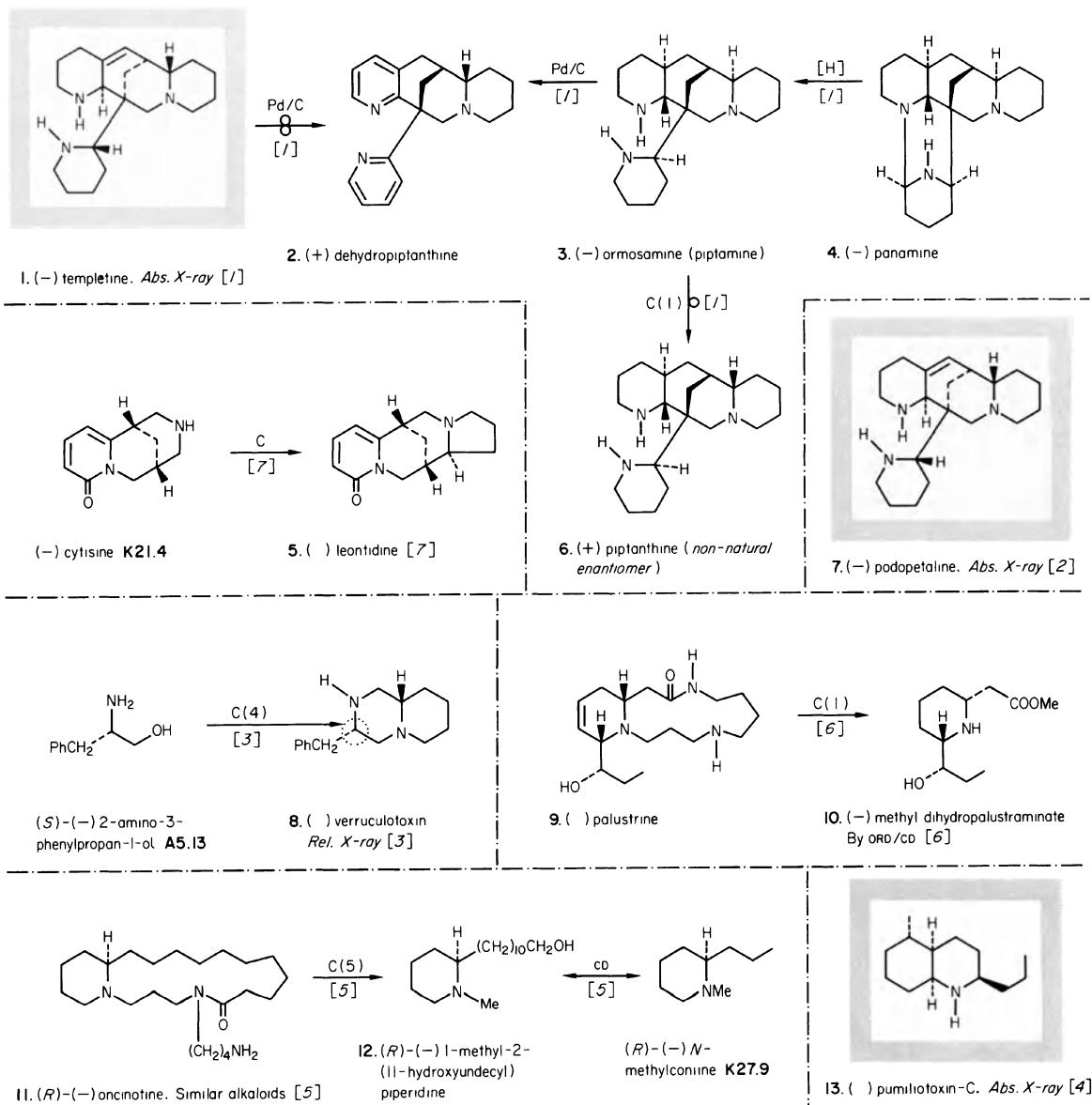
- H. Irie, K. Ishizuka, S. Kawashima, N. Masaki, K. Osaki, T. Shingu, S. Uyeo, H. Kaneko and S. Naruto, *Chem. Comm.*, 1972, 871.
- J. Naranjo, M. Hesse and H. Schmid, *Helv. Chim. Acta*, 1972, 55, 1849.
- A. A. Gorman, V. Agwada, M. Hesse, U. Renner and H. Schmid, *Helv. Chim. Acta*, 1966, 49, 2072.
- P. Rasoanaivo, N. Langlois and P. Potier, *Tetrahedron Letters*, 1974, 3669.
- G. Hugel, J. Lévy and J. Le Men, *Comptes Rendus (C)*, 1972, 274, 1350.
- R. Beugelmans, D. Herlem, H.-P. Husson, F. Khuong-Huu and M.-T. Le Goff, *Tetrahedron Letters*, 1976, 435.
- E. Bombardelli, A. Bonati, B. Gabetta, E. M. Martinelli, G. Mustich and B. Danieli, *Tetrahedron*, 1974, 30, 4141.
- K. Sasaki, S. Iwadare and Y. Hirata, *Tetrahedron Letters*, 1974, 1055.
- S. Iwadare, Y. Shizuri, K. Yamada and Y. Hirata, *Tetrahedron Letters*, 1974, 1177.
- M. Koch, M. Plat and N. Préaux, *Bull. Soc. chim. France*, 1973, 2868.
- J. Fridrichsons, A. F. Mackay and A. McL. Mathieson, *Tetrahedron*, 1974, 30, 85.
- A.-M. Morfaux, L. Le Men-Olivier, J. Lévy and J. Le Men, *Tetrahedron Letters*, 1973, 1939.



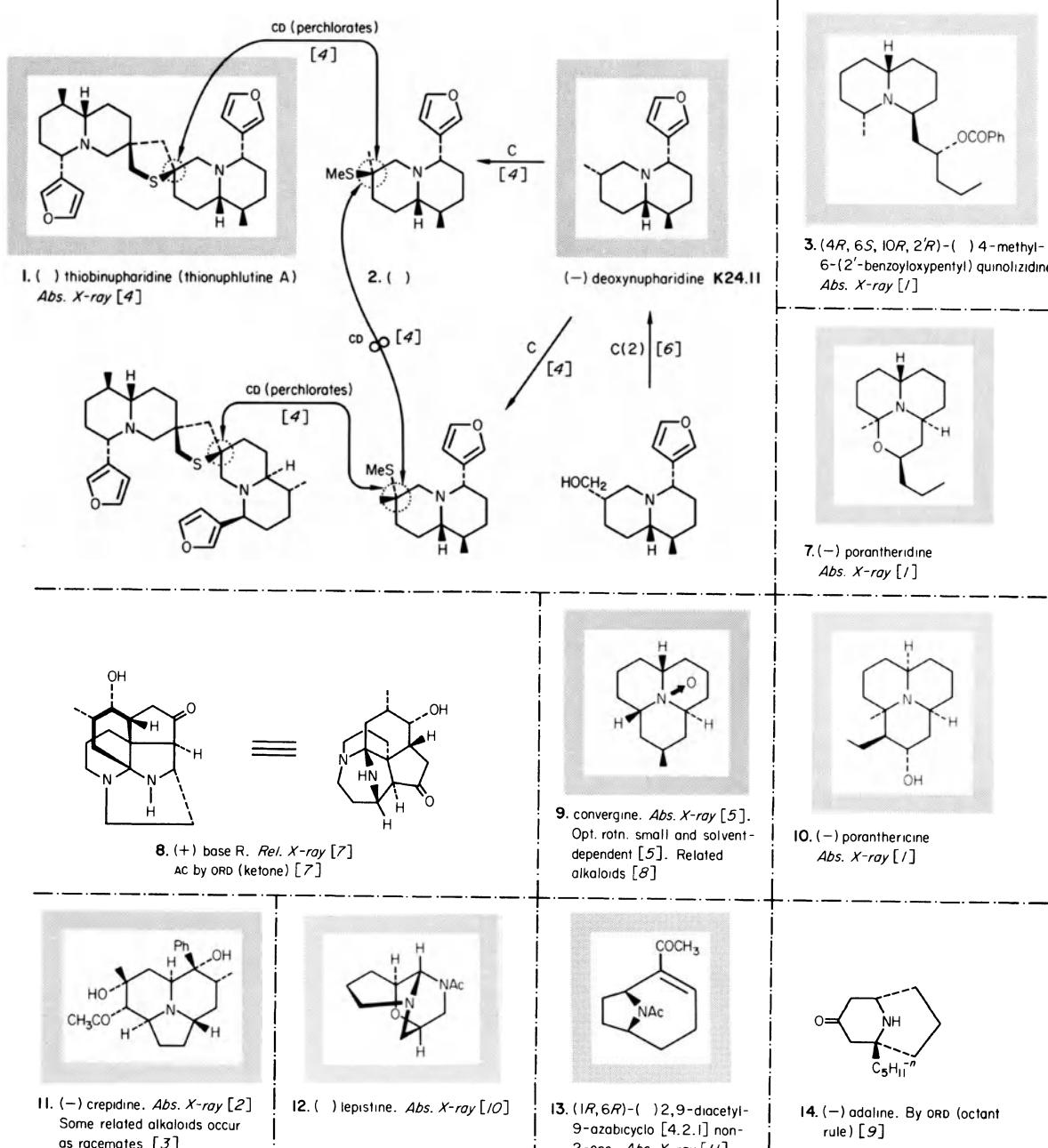
- S. Sakai, N. Aimi, K. Yamaguchi, H. Ohhira, K. Hori and J. Haginiwa, *Tetrahedron Letters*, 1975, 715.
- S. M. Nasirov, V. G. Andrianov and Y. T. Struchkov, *Chem. Comm.*, 1974, 979.
- B. F. Anderson, G. B. Robertson, H. P. Avey, W. F. Donovan, I. R. C. Bick, J. B. Bremner, A. J. T. Finney, N. W. Preston, R. T. Gallagher and G. B. Russell, *Chem. Comm.*, 1975, 511.
- J. M. Karle and P. W. Le Quesne, *Chem. Comm.*, 1972, 416.
- R. T. Brown and A. A. Charalambides, *Chem. Comm.*, 1973, 765.
- A. H. Ratcliffe, G. F. Smith and G. N. Smith, *Tetrahedron Letters*, 1973, 5179.
- A. Husson, Y. Langlois, C. Riche, H.-P. Husson and P. Potier, *Tetrahedron*, 1973, 29, 3095.
- A. Shafiee, A. Ahond, A.-M. Bui, Y. Langlois, C. Riche and P. Potier, *Tetrahedron Letters*, 1976, 921.



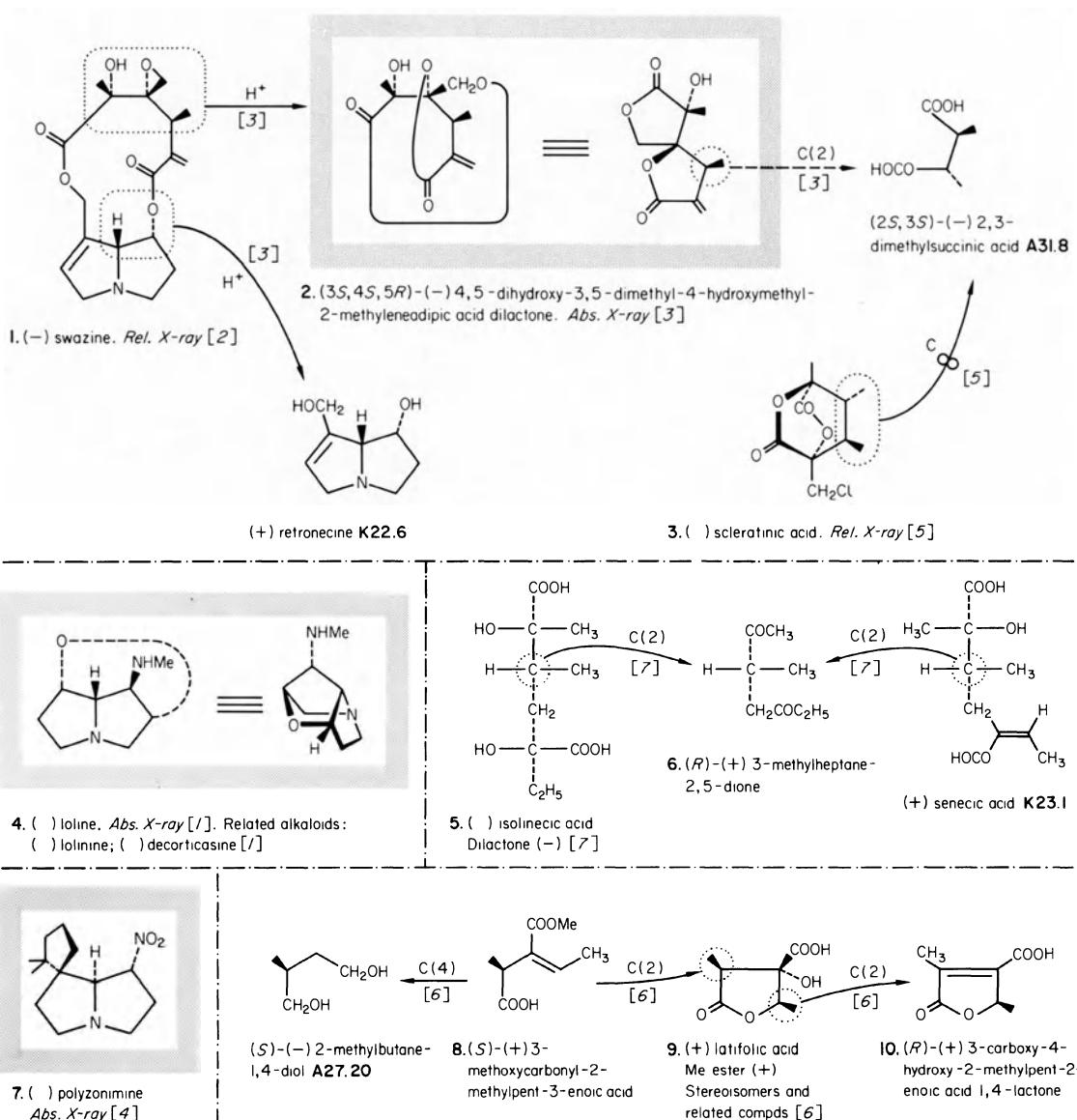
1. J. H. Russel and H. Hunziker, *Tetrahedron Letters*, 1969, 4035.
2. L. Faber and W. Wiegrebe, *Helv. Chim. Acta*, 1973, **56**, 2882, and refs. therein.
3. T. R. Govindachari, T. G. Rajagopalan and N. Viswanathan, *J. Chem. Soc., Perkin I*, 1974, 1161.
4. M. Yamazaki, H. Fujimoto, T. Akiyama, U. Sankawa and Y. Itaya, *Tetrahedron Letters*, 1975, 27.
5. J. Coetzer and P. S. Steyn, *Acta Cryst.*, 1973, **B29**, 685.
6. L. Blomqvist, K. Leander, B. Lüning and J. Rosenblom, *Acta Chem. Scand.*, 1972, **26**, 3203.
7. P. S. Steyn, *Tetrahedron*, 1973, **29**, 107.
8. R. A. Gardiner, K. L. Rinehart, J. J. Snyder and H. P. Broquist, *J. Amer. Chem. Soc.*, 1968, **90**, 5639.
9. J. Coetzer, *Acta Cryst.*, 1974, **B30**, 2254.
10. See p. A17.



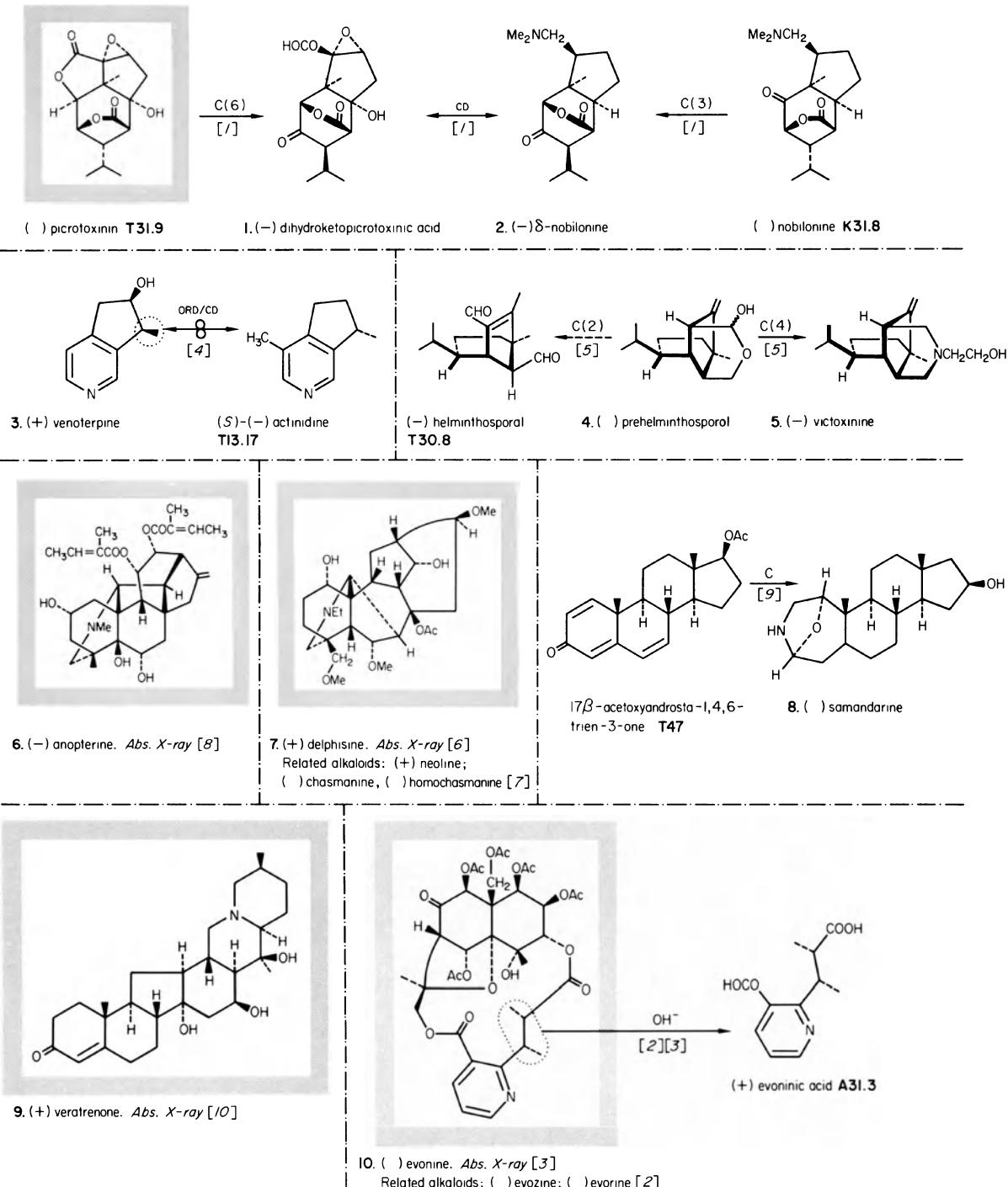
1. J. R. Cannon, J. R. Williams, J. F. Blount and A. Brossi, *Tetrahedron Letters*, 1974, 1683.
2. N. K. Hart, S. R. Johns, J. A. Lamberton, M. F. Mackay, A. McL. Mathieson and L. Satzke, *Tetrahedron Letters*, 1972, 5333.
3. J. G. Macmillan, J. P. Springer, J. Clardy, R. J. Cole and J. W. Kirksey, *J. Amer. Chem. Soc.*, 1976, 98, 246.
4. W. Oppolzer, W. Fröstl and H. P. Weber, *Helv. Chim. Acta*, 1975, 58, 593.
5. A. Guggisberg, M. M. Badawi, M. Hess and H. Schmid, *Helv. Chim. Acta*, 1974, 57, 414.
6. P. Walchi and C. H. Eugster, *Angew. Chem., Internat. Edn.*, 1973, 12, 160.
7. S. Iskandarov, R. A. Shaimardanov and S. Yu. Yumusov, *Khim. Prirod. Soedinenii*, 1971, 631, 636 (*Chem. Abstr.*, 1972, 76, 99884v, 59816t)



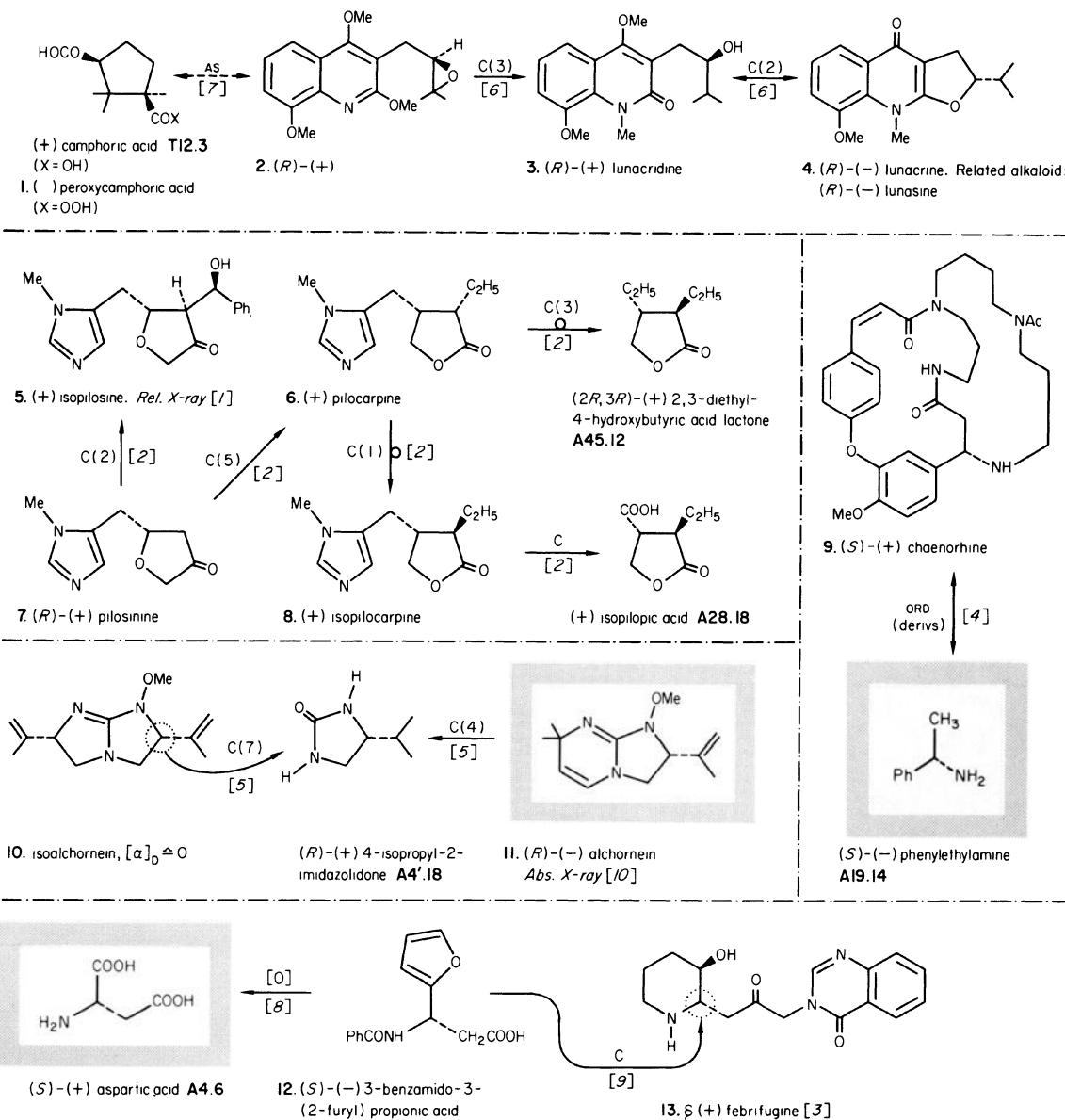
1. W. A. Denne and A. McL. Mathieson, *J. Cryst. Mol. Struct.*, 1973, **3**, 87; 138; 367.
2. A. M. Pilotti, *Acta Cryst.*, 1971, **B27**, 887.
3. M. Elander, K. Leander, J. Rosenblom and E. Ruusa, *Acta Chem. Scand.*, 1973, **27**, 1907.
4. R. T. LaLonde, C. F. Wong and K. C. Das, *J. Org. Chem.*, 1974, **39**, 2892; J. T. Wrobel, B. Bobeszko, T. I. Martin, D. B. MacLean, N. Krishnamachari and C. Calvo, *Canad. J. Chem.*, 1973, **51**, 2810.
5. B. Tursch, D. Dalozze, J. C. Braekman, C. Hootele, A. Cravador, D. Losman and R. Karlsson, *Tetrahedron Letters*, 1974, 409.
6. B. Maurer and G. Ohloff, *Helv. Chim. Acta*, 1976, **59**, 1169.
7. R. H. Burnell, A. Chapelle, J. Fischer and L. Ricard, *Chem. Comm.*, 1974, 391.
8. W. A. Ayer, M. J. Bennett, L. M. Browne and J. T. Purdham, *Canad. J. Chem.*, 1976, **54**, 1807.
9. B. Tursch, C. Chome, J. C. Braekman and D. Dalozze, *Bull. Soc. chim. belges*, 1973, **82**, 699.
10. M. Laing, F. L. Warren and E. P. White, *Tetrahedron Letters*, 1975, 269.
11. C. S. Huber, *Acta Cryst.*, 1972, **B28**, 2577.



1. R. B. Bates and S. R. Morehead, *Tetrahedron Letters*, 1972, 1629.
2. M. Laing and P. Sommerville, *Tetrahedron Letters*, 1972, 5183.
3. C. G. Gordon-Gray, R. B. Wells, N. Halak, M. B. Hursthouse, S. Neidle and T. P. Toube, *Tetrahedron Letters*, 1972, 707.
4. J. Meinwald, J. Smolanoff, A. T. McPhail, R. W. Miller, T. Eisner and K. Hicks, *Tetrahedron Letters*, 1975, 2367.
5. J. Coetzter, *Acta Cryst.*, 1973, B29, 917.
6. T. Matsumoto, T. Okabe and K. Fukui, *Chem. Letters*, 1973, 773.
7. E. D. Coucourakis, C. G. Gordon-Gray and C. G. Whiteley, *J. Chem. Soc., Perkin I*, 1972, 2339.



- D. Behr and K. Leander, *Acta Chem. Scand.*, 1972, **26**, 3196; 1976, **30**, 279.
- Y. Shizuri, H. Wada, K. Sugiura, K. Yamada and Y. Hirata, *Tetrahedron*, 1973, **29**, 1773.
- K. Sasaki and Y. Hirata, *J. Chem. Soc., Perkin II*, 1972, 1268.
- L. A. Mitscher, A. B. Ray and A. Chatterjee, *Experientia*, 1971, **27**, 16.
- F. Dorn and D. Arigoni, *Chem. Comm.*, 1972, 1342.
- S. W. Pelletier, W. H. De Camp, S. D. Lajsic, Z. Djarmati and A. H. Kapadi, *J. Amer. Chem. Soc.*, 1974, **96**, 7815.
- S. W. Pelletier, Z. Djarmati and S. Lajsic, *J. Amer. Chem. Soc.*, 1974, **96**, 7817.
- W. A. Denne, S. R. Johns, J. A. Lamberton, A. McL. Mathieson and H. Suares, *Tetrahedron Letters*, 1972, 2727.
- M. H. Benn and R. Shaw, *Chem. Comm.*, 1973, 288.
- M. Takasugi, V. H. Castro-Araya, T. Masamune, A. Furusaki and T. Matsumoto, *Chem. Letters*, 1974, 1477.



- W. E. Oberhänsli, *Cryst. Struct. Comm.*, 1972, **1**, 203.
- H. Link and K. Bernauer, *Helv. Chim. Acta*, 1972, **55**, 1053; H. Link, K. Bernauer and W. E. Oberhänsli, *ibid.*, 1974, **57**, 2199, and refs. therein.
- D. F. Barringer, G. Berkelhammer and R. S. Wayne, *J. Org. Chem.*, 1973, **38**, 1937.
- H. O. Bernhard, I. Kompis, S. Johne, D. Gröger, M. Hesse and H. Schmid, *Helv. Chim. Acta*, 1973, **56**, 1266.
- F. Khuong-Huu, J.-P. Le Forestier and R. Goutarel, *Tetrahedron*, 1972, **28**, 5207.
- R. M. Bowman, G. A. Gray and M. F. Grundon, *J. Chem. Soc., Perkin I*, 1973, 1051.
- R. M. Bowman, J. F. Collins and M. F. Grundon, *J. Chem. Soc., Perkin I*, 1973, 626.
- R. K. Hill and A. G. Edwards, *Chem. and Ind.*, 1962, 858.
- B. R. Baker, F. J. McEvoy, R. E. Schaub, J. P. Joseph and J. H. Williams, *J. Org. Chem.*, 1953, **18**, 178.
- M. Cesario and J. Guilhem, *Acta Cryst.*, 1972, **B28**, 151.

# Y'

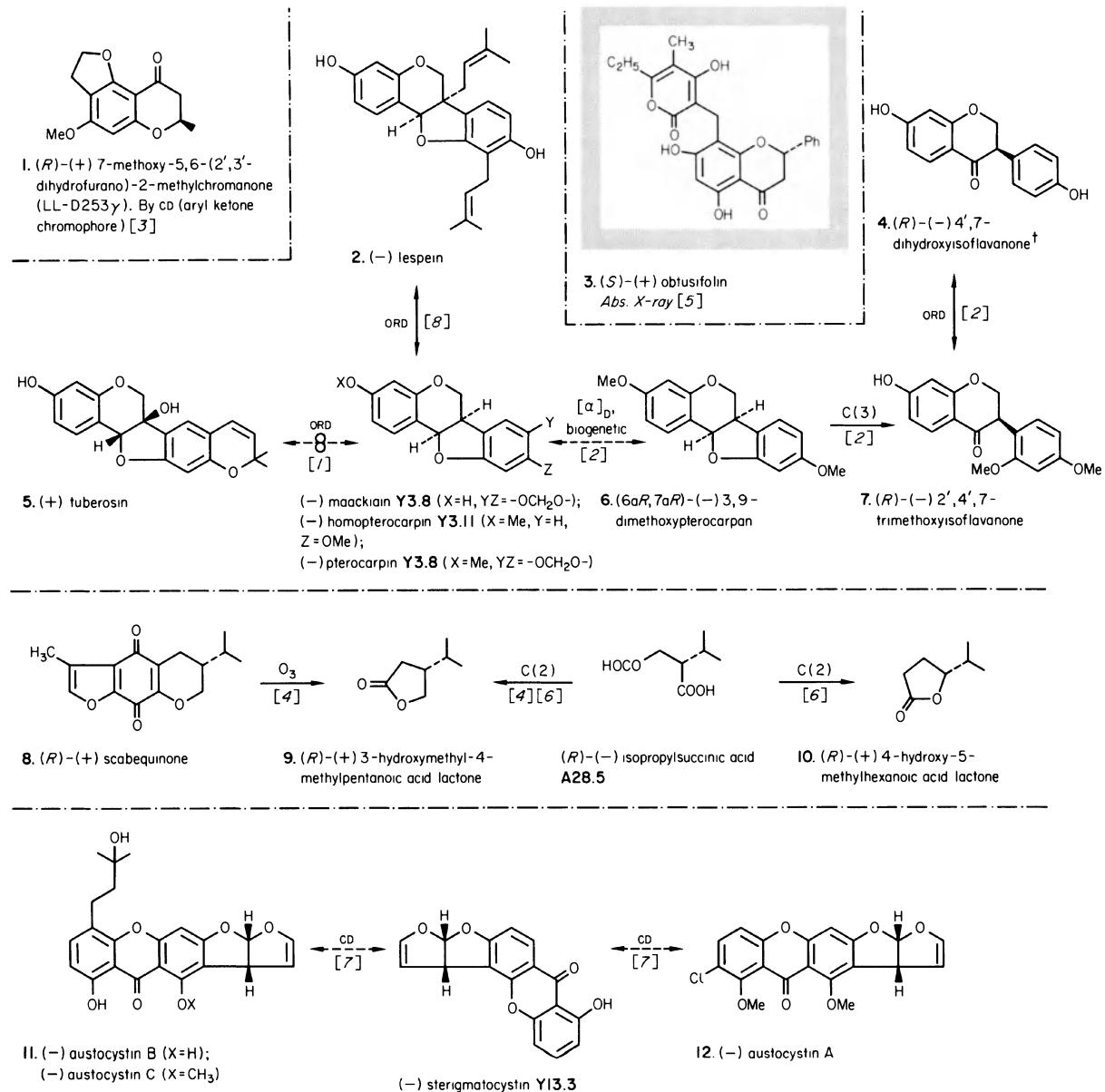
## Miscellaneous Natural Products

---

### Introductory Notes to Chapter Y'

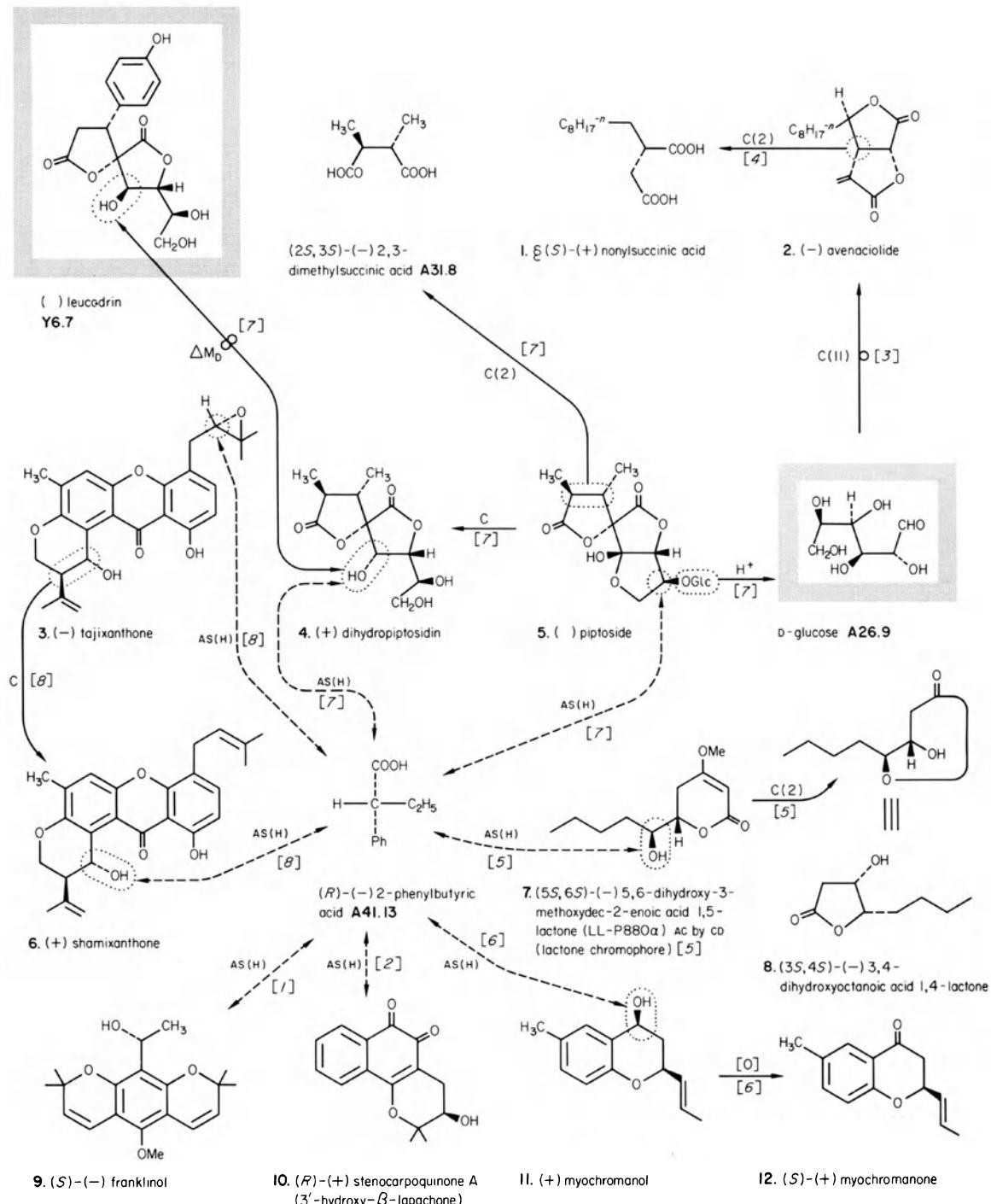
The arrangement of material is the same as in Chapter Y

1. *Compounds containing C,H,O and halogens only*
  - (a) Open-chain and O-heterocyclic compounds pp. Y1'-Y6'
  - (b) Carbocyclic compounds pp. Y7'-Y10'
2. Compounds containing N,S and P. pp. Y11'-Y15'



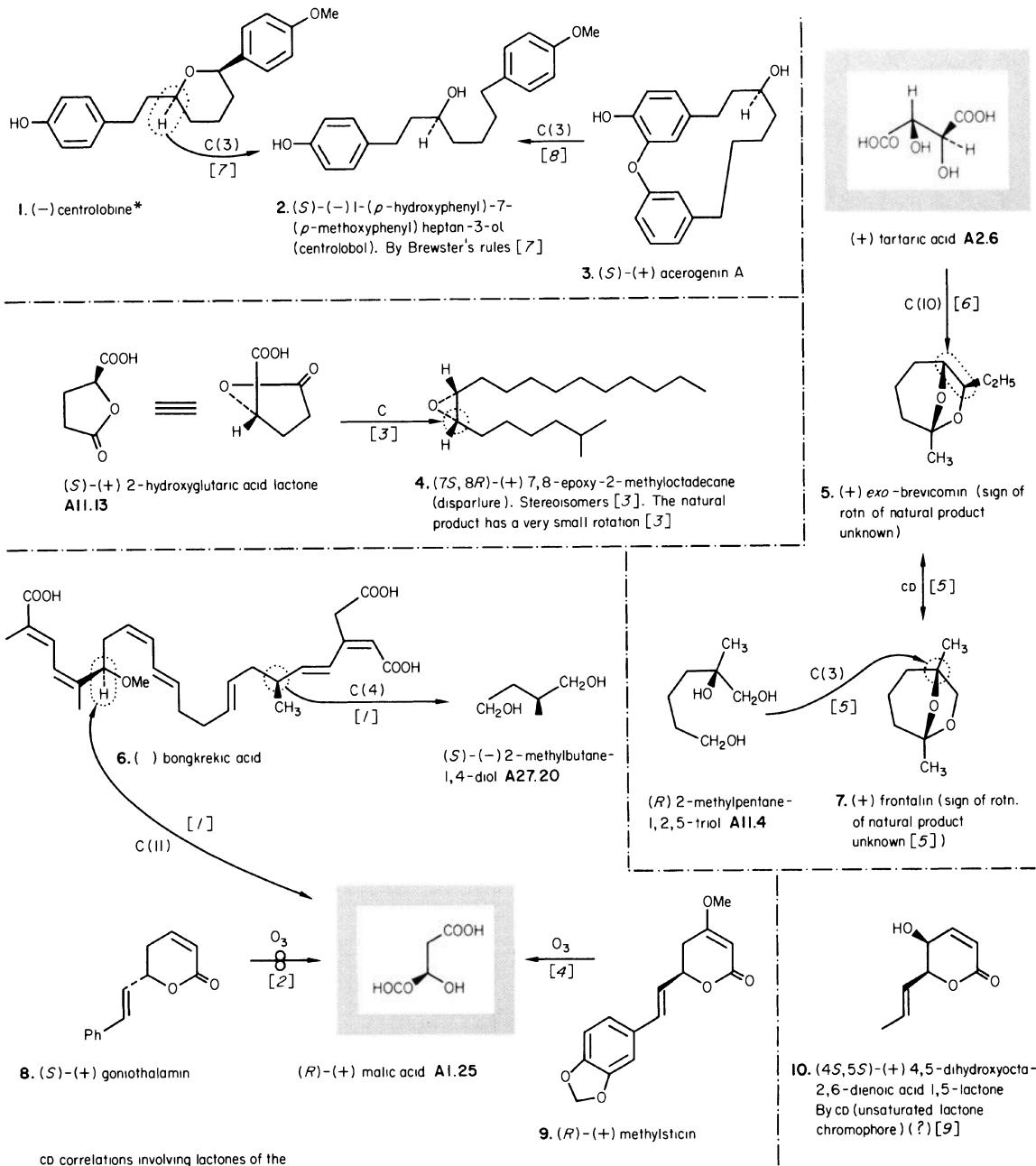
† This compound is one of the two known optically active naturally occurring isoflavanones. The other, ((+)-sophorol, 2',7-dihydroxy-4',5'-methyleneedioxyisoflavanone) apparently has the opposite AC, but the evidence is tenuous [2] [9].

- B. S. Joshi and V. N. Kamat, *J. Chem. Soc., Perkin I*, 1973, 907.
- M. A. Fitzgerald, P. J. M. Gunning and D. M. X. Donnelly, *J. Chem. Soc., Perkin I*, 1976, 186, and refs. therein.
- W. J. McGahren, G. A. Ellestad, G. O. Morton and M. P. Kunsmann, *J. Org. Chem.*, 1972, 37, 1636.
- R. D. Allan, R. W. Dunlop, M. J. Kendall, R. J. Wells and J. K. MacLeod, *Tetrahedron Letters*, 1973, 3.
- D. W. Engel, K. Zechmeister and W. Hoppe, *Tetrahedron Letters*, 1972, 1323.
- M. Kendall and R. J. Wells, *Austral. J. Chem.*, 1974, 27, 2293.
- P. S. Steyn and R. Vleggaar, *J. Chem. Soc., Perkin I*, 1974, 2250.
- A. Ueno, M. Ichikawa, S. Fukushima, Y. Saiki, T. Noro, N. Morinaga and H. Kuwano, *Chem. Pharm. Bull. Japan*, 1973, 21, 2715.
- H. Suginome, *Bull. Chem. Soc. Japan*, 1966, 39, 1544.

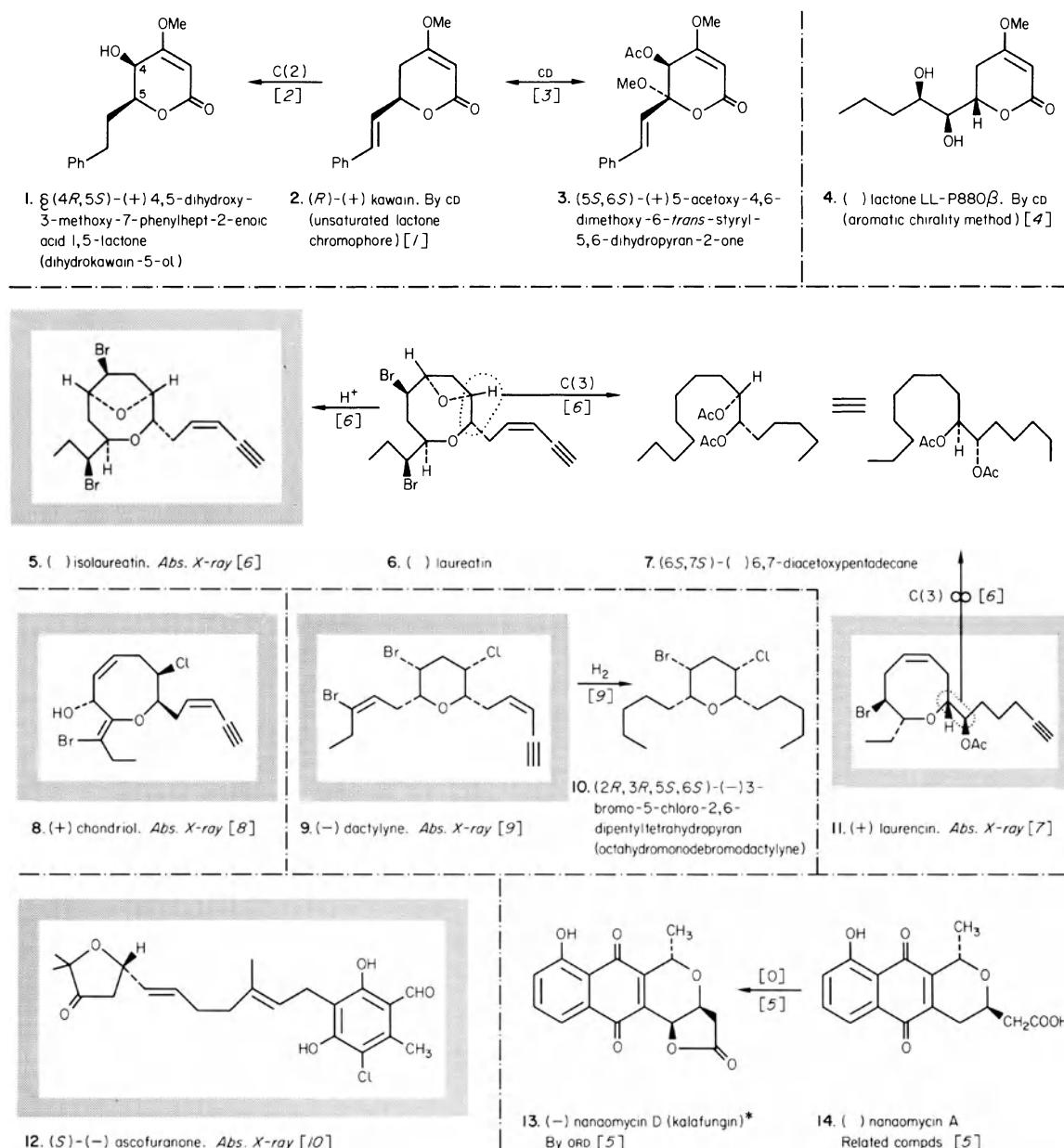


1. J. A. Croft, E. Ritchie and W. C. Taylor, *Austral. J. Chem.*, 1975, **28**, 2019.
2. J. Mock, S. T. Murphy, E. Ritchie and W. C. Taylor, *Austral. J. Chem.*, 1973, **26**, 1121.
3. H. Ohrui and S. Emoto, *Tetrahedron Letters*, 1975, 3657; R. C. Anderson and B. Fraser-Reid, *J. Amer. Chem. Soc.*, 1975, **97**, 3870.
4. D. Brookes, B. K. Tidd and W. B. Turner, *J. Chem. Soc.*, 1963, 5385.
5. G. A. Ellestad, W. J. McGahren and M. P. Kunstmann, *J. Org. Chem.*, 1972, **37**, 2045.
6. Ch. Tamm, B. Böhner and W. Zürcher, *Helv. Chim. Acta*, 1972, **55**, 510.
7. J. B. Lowry, J. B. McAlpine and N. V. Riggs, *Austral. J. Chem.*, 1975, **28**, 109, and refs. therein.
8. K. K. Chexal, C. Fouweather, J. S. E. Holker, T. J. Simpson and K. Young, *J. Chem. Soc., Perkin I*, 1974, 1584.

## Centrolobine; bongrekic acid; insect pheromones

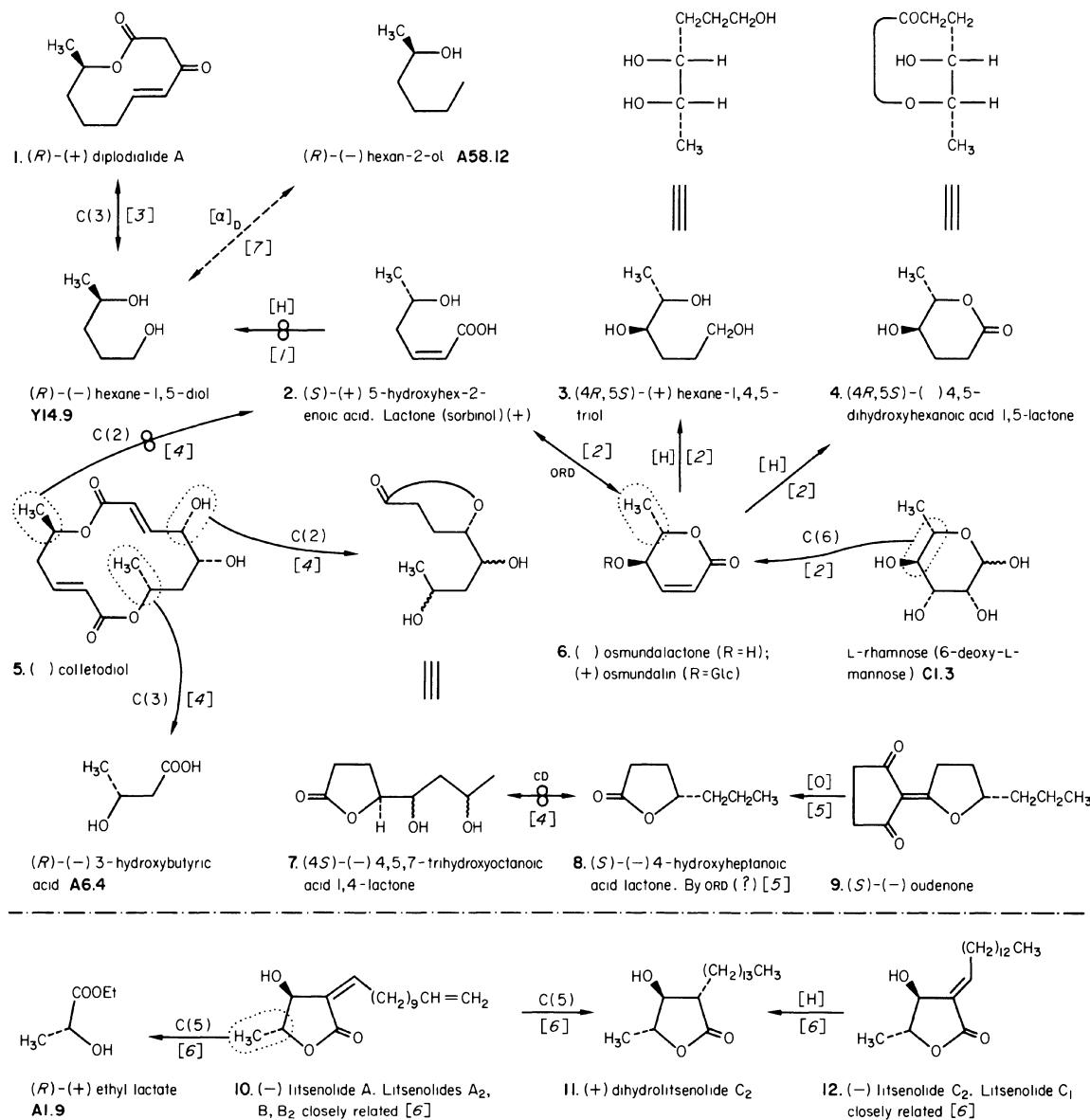


- J. Zylber, F. Gaudemer and A. Gaudemer, *Experientia*, 1973, **29**, 648.
- J. R. Hlubucek and A. V. Robertson, *Austral. J. Chem.*, 1967, **20**, 2199.
- S. Iwaki, S. Marumo, T. Saito, M. Yamada and K. Katagiri, *J. Amer. Chem. Soc.*, 1974, **96**, 7842.
- H. Achenbach and N. Theobald, *Chem. Ber.*, 1974, **107**, 735.
- K. Mori, *Tetrahedron*, 1975, **31**, 1381.
- K. Mori, *Tetrahedron*, 1974, **30**, 4223.
- A. Aragao Craveiro, A. da Costa Prado, O. R. Gottlieb and P. C. Welerson de Albuquerque, *Phytochemistry*, 1970, **9**, 1869.
- M. Nagai, M. Kubo, M. Fujita, T. Inoue and M. Matsuo, *Chem. Comm.*, 1976, 338.
- A. F. Beecham, *Tetrahedron*, 1972, **28**, 5543.

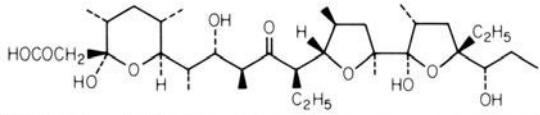
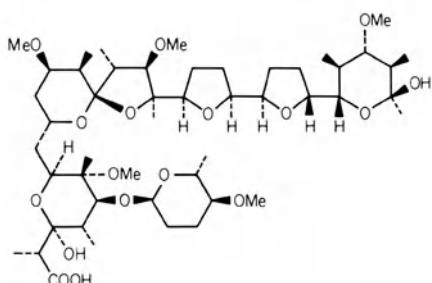
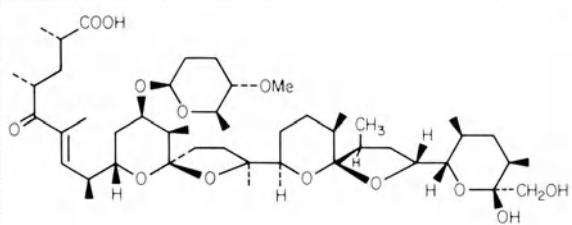
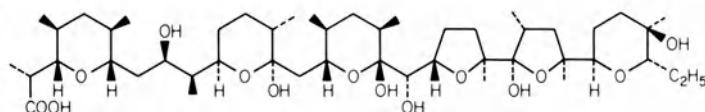
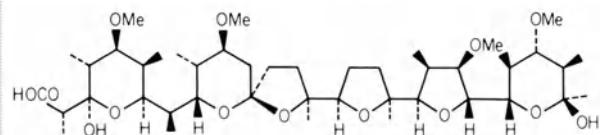


- G. Snatzke and R. Hänsel, *Tetrahedron Letters*, 1968, 1797.
- H. Achenbach and H. Huth, *Tetrahedron Letters*, 1974, 119.
- R. Hänsel, A. Pelter, J. Schulz and C. Hille, *Chem. Ber.*, 1976, **109**, 1617.
- W. J. McGahren, G. A. Ellestad, G. O. Morton, M. P. Kunstmann and P. Mullen, *J. Org. Chem.*, 1973, **38**, 3542.
- S. Omura, H. Tanaka, Y. Okada and H. Marumo, *Chem. Comm.*, 1976, 320.
- E. Kurosawa, A. Furusaki, M. Izawa, A. Fukuzawa and T. Irie, *Tetrahedron Letters*, 1973, 3857, and refs. therein.
- A. F. Cameron, K. K. Cheung, G. Ferguson and J. M. Robertson, *J. Chem. Soc., (B)*, 1969, 559.
- W. Fenical, K. B. Giffins and J. Clardy, *Tetrahedron Letters*, 1974, 1507.
- F. J. McDonald, D. C. Campbell, D. J. Vanderah, F. J. Schmitz, D. M. Washecheck, J. E. Burks and D. van der Helm, *J. Org. Chem.*, 1975, **40**, 665.
- K. Ando, H. Sasaki, T. Hosokawa, Y. Nawata and Y. Iitaka, *Tetrahedron Letters*, 1975, 887.

## Further lactones

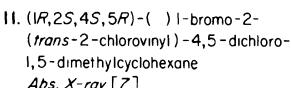
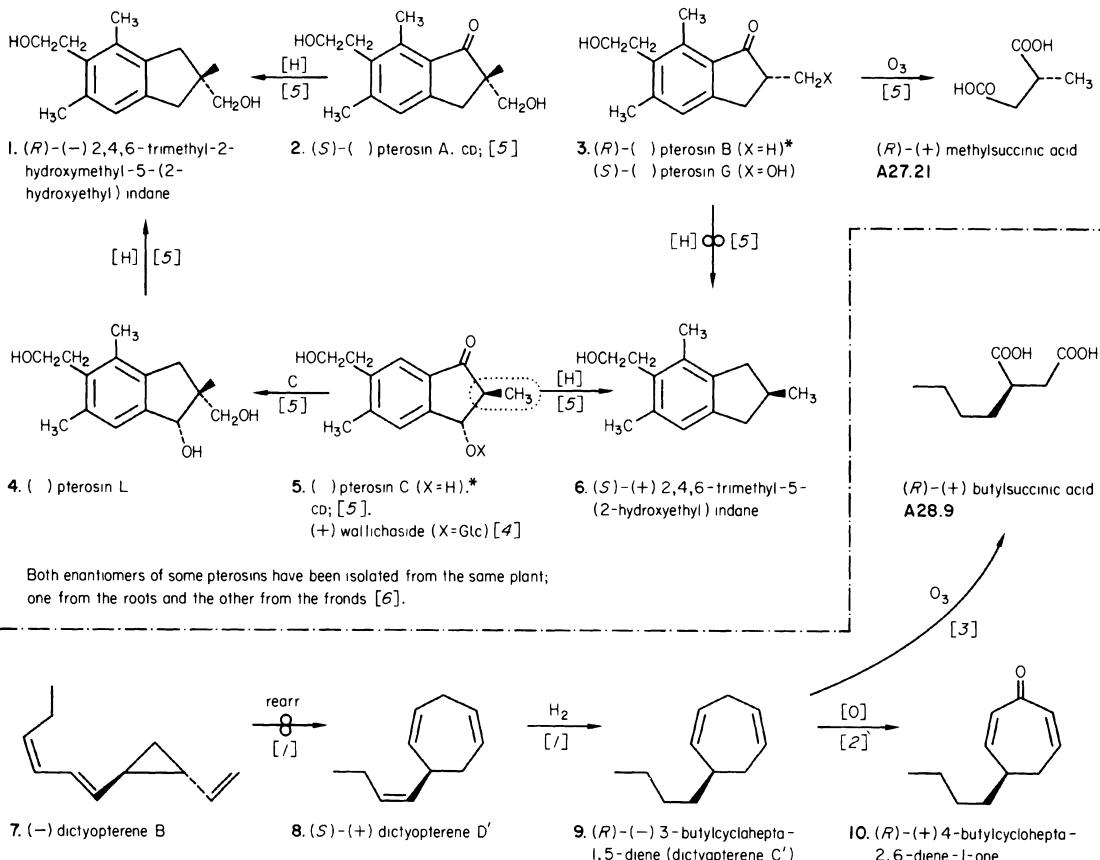


1. R. Kuhn and K. Kum, *Chem. Ber.*, 1962, **95**, 2009.
2. K. H. Hollenbeck and M. E. Kuehne, *Tetrahedron*, 1974, **30**, 2307.
3. T. Ishida and K. Wada, *Chem. Comm.*, 1975, 209.
4. J. MacMillan and T. J. Simpson, *J. Chem. Soc., Perkin I*, 1973, 1487.
5. M. Ohno, M. Okamoto, N. Kawabe, H. Umezawa, T. Takeuchi, H. Iinuma and S. Takahashi, *J. Amer. Chem. Soc.*, 1971, **93**, 1285.
6. K. Takeda, K. Sakurawaki and H. Ishii, *Tetrahedron*, 1972, **28**, 3757.
7. H. P. Sigg, *Helv. Chim. Acta*, 1964, **47**, 1401.

1. (-)-lysocellin. *Abs. X-ray* [1]. Na salt (+)2. (-)-antibiotic A-204A. *Abs. X-ray* [3]  
*Abs. X-ray of (-)-septamycin (closely similar antibiotic)* [4]3. (-)-antibiotic R621-6150. *Abs. X-ray* [2]4. (-)-alborixin. *Abs. X-ray* [5]5. (-)-emericid (ionomycin, antibiotic DE-3936). *Abs. X-ray* [6][7][8]

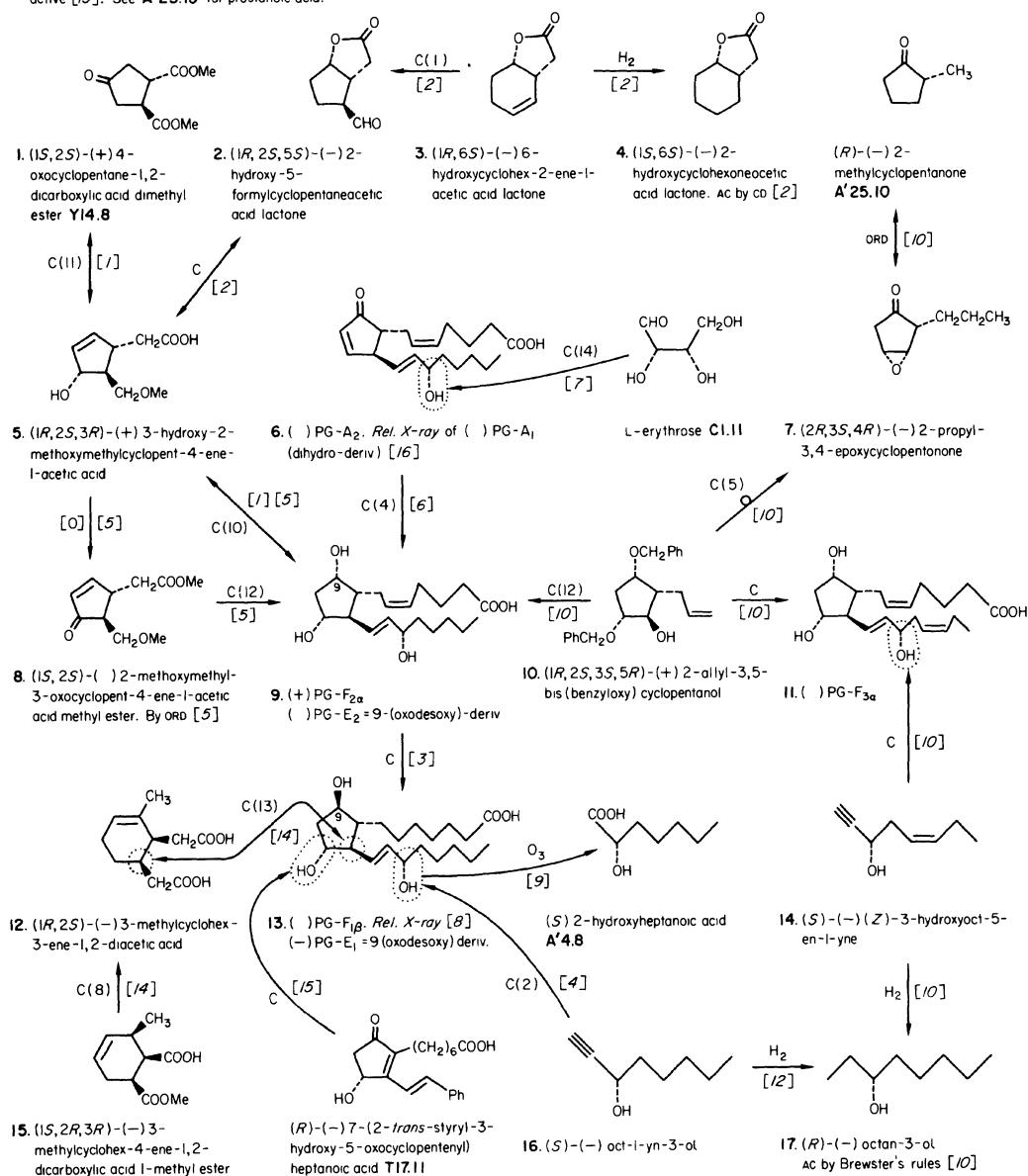
1. N. Otake, M. Koenuma, H. Kinashi, S. Sato and Y. Saito, *Chem. Comm.*, 1975, 92.
2. J. F. Blount, R. H. Evans, C.-M. Liu, T. Hermann and J. W. Westley, *Chem. Comm.*, 1975, 853.
3. N. D. Jones, M. O. Chaney, J. W. Chamberlin, R. L. Hamill and S. Chen, *J. Amer. Chem. Soc.*; 1973, **95**, 3399.
4. T. J. Petcher and H.-P. Weber, *Chem. Comm.*, 1974, 697.
5. M. Alléaume, B. Busetta, C. Farges, P. Gachon, A. Kergomard and T. Staron, *Chem. Comm.*, 1975, 411; M. Alléaume, personal communication.
6. C. Riche and C. Pascard-Billy, *Chem. Comm.*, 1975, 951.
7. N. Otake and M. Koenuma, *Tetrahedron Letters*, 1975, 4147.
8. K. Yamazaki, K. Abe and M. Sano, *J. Antibiotics (Japan)*, 1976, **29**, 91.

## Pterosins; dictyopterenes



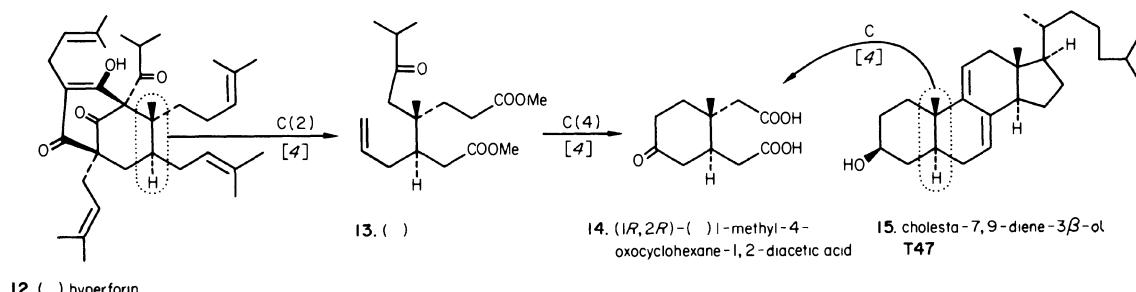
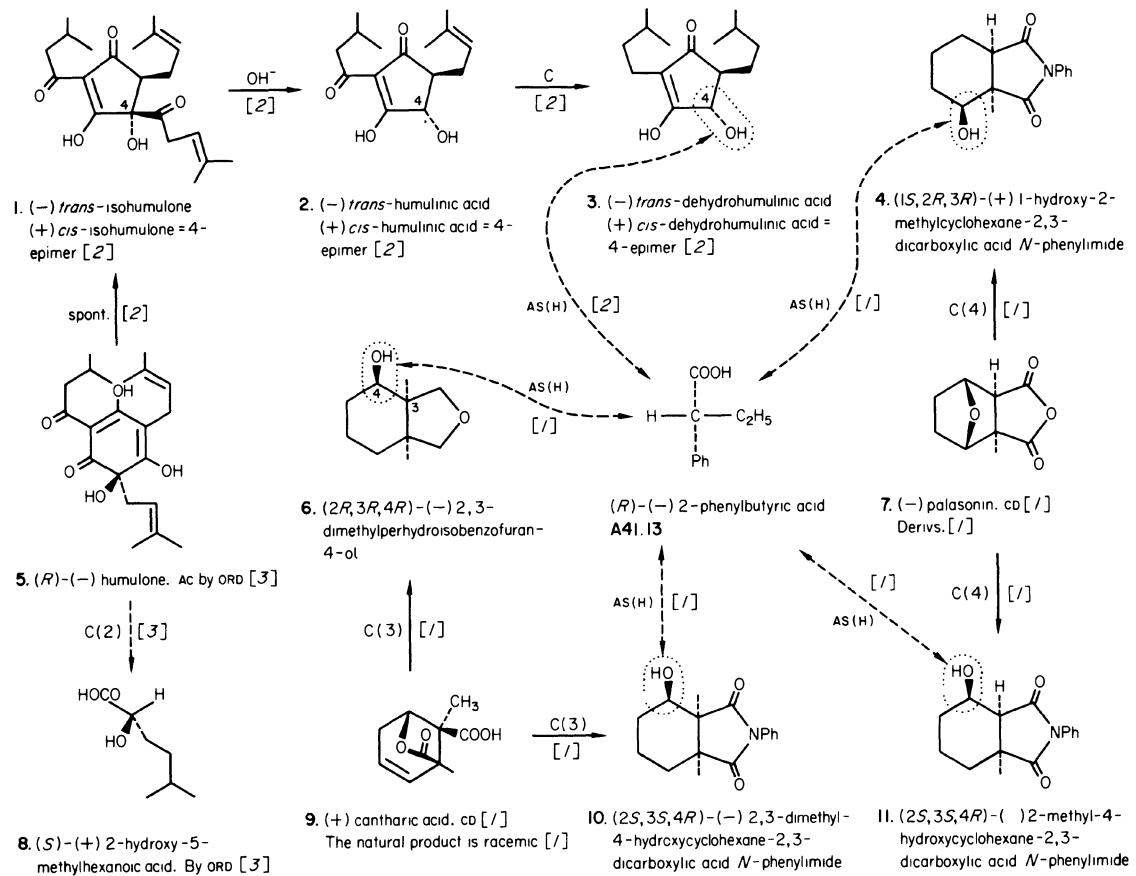
1. R. E. Moore, J. A. Pettus and J. Mistysyn, *J. Org. Chem.*, 1974, **39**, 2201.
2. R. E. Moore and G. Yost, *Chem. Comm.*, 1973, 937.
3. J. A. Pettus and R. E. Moore, *J. Amer. Chem. Soc.*, 1971, **93**, 3087.
4. P. Sengupta, M. Sen, S. K. Niyogi, S. C. Pakrashi and E. Ali, *Phytochemistry*, 1976, **15**, 995.
5. M. Kuroyanagi, M. Fukuoka, K. Yoshihira and S. Natori, *Chem. Pharm. Bull. Japan*, 1974, **22**, 723.
6. M. Kuroyanagi, M. Fukuoka, K. Yoshihira and S. Natori, *Chem. Pharm. Bull. Japan*, 1974, **22**, 2762.
7. J. S. Mynderse, D. J. Faulkner, J. Finer and J. Clardy, *Tetrahedron Letters*, 1975, 2175.

See [1] [2] for general discussions of the stereochemistry of the prostaglandins. Compounds of both the natural and enantiomeric series are biologically active [3]. See A' 25.15 for prostanoic acid.

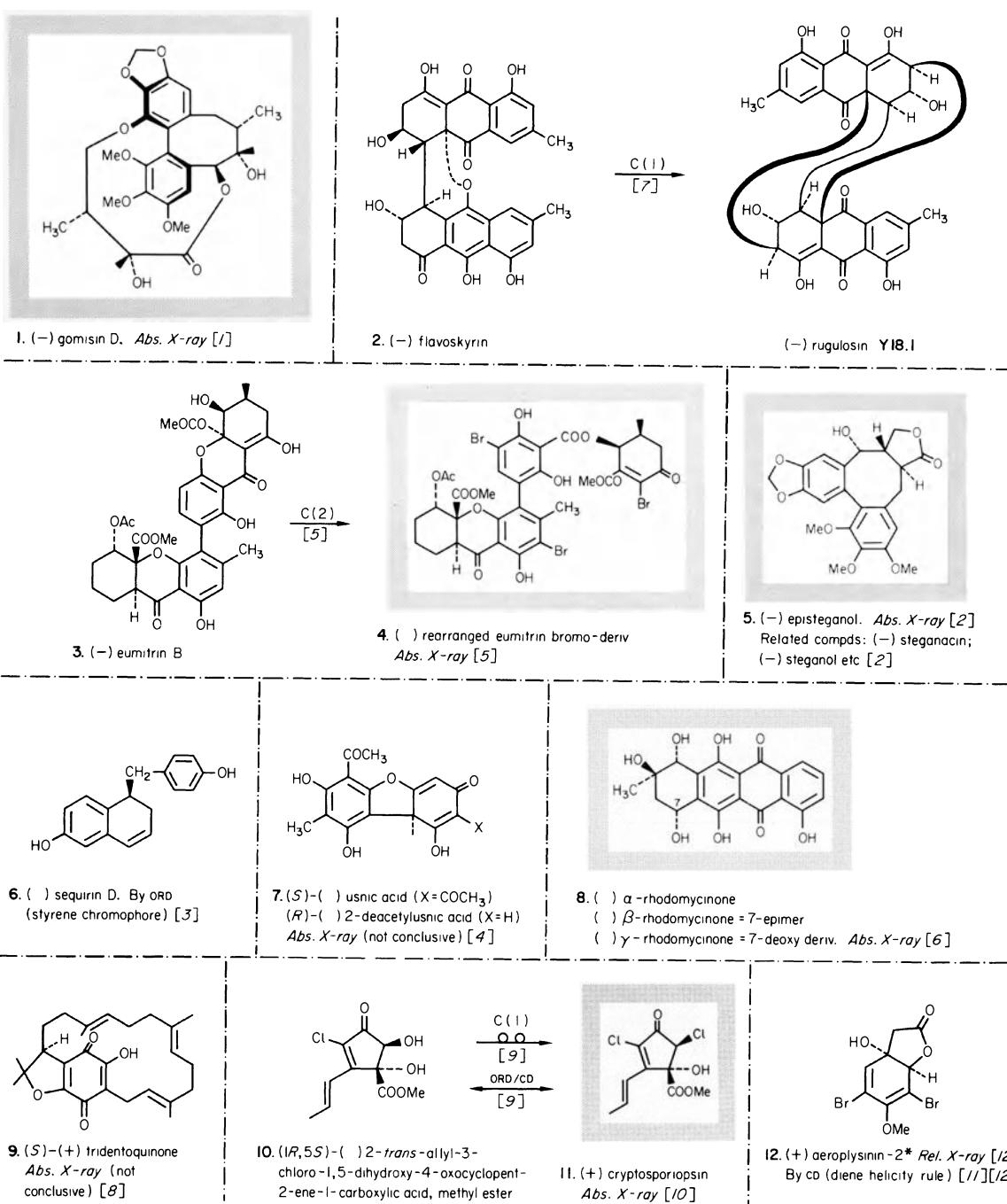


- O. Oda, K. Kojima and S. Sakai, *Tetrahedron Letters*, 1975, 3709.
- E. J. Corey and B. B. Snider, *J. Org. Chem.*, 1974, 39, 256, and refs. therein.
- E. J. Corey, N. M. Weinshenker, T. K. Schaaf and W. Huber, *J. Amer. Chem. Soc.*, 1969, 91, 5675.
- C. J. Sih, P. Price, R. Sood, R. G. Salomon, G. Peruzzotti and M. Casey, *J. Amer. Chem. Soc.*, 1972, 94, 3643.
- E. J. Corey, T. K. Schaaf, W. Huber, U. Koelliker and N. M. Weinshenker, *J. Amer. Chem. Soc.*, 1970, 92, 397.
- W. P. Schneider, R. D. Hamilton and L. E. Rhuland, *J. Amer. Chem. Soc.*, 1972, 94, 2122; G. L. Bundy, W. P. Schneider, F. H. Lincoln and J. E. Pike, *ibid.*, 2123.
- G. Stork and S. Raucher, *J. Amer. Chem. Soc.*, 1976, 98, 1583.
- S. Abrahamsson, *Acta Cryst.*, 1963, 16, 409.
- D. H. Nugteren, D. A. Van Dorp, S. Bergström, K. Hamberg and B. Samuelsson, *Nature*, 1966, 212, 38.
- J. Fried, C. H. Lin, J. C. Sih, P. Dalven and G. F. Cooper, *J. Amer. Chem. Soc.*, 1972, 94, 4342.
- E. L. Cooper and E. W. Yankee, *J. Amer. Chem. Soc.*, 1974, 96, 5876.
- Ann. N.Y. Acad. Sci.*, 180 (1971).
- J. F. Bagli, T. Bogri and S. N. Sehgal, *Tetrahedron Letters*, 1973, 3329, and refs. therein.
- H. L. Slates, Z. S. Zelawski, D. Taub and N. L. Wendler, *Chem. Comm.*, 1972, 304.
- M. Miyano and C. R. Dorn, *J. Amer. Chem. Soc.*, 1973, 95, 2664.
- J. W. Edmonds and W. L. Duax, *J. Amer. Chem. Soc.*, 1975, 97, 413.

## Humulone; hyperforin; cantharic acid

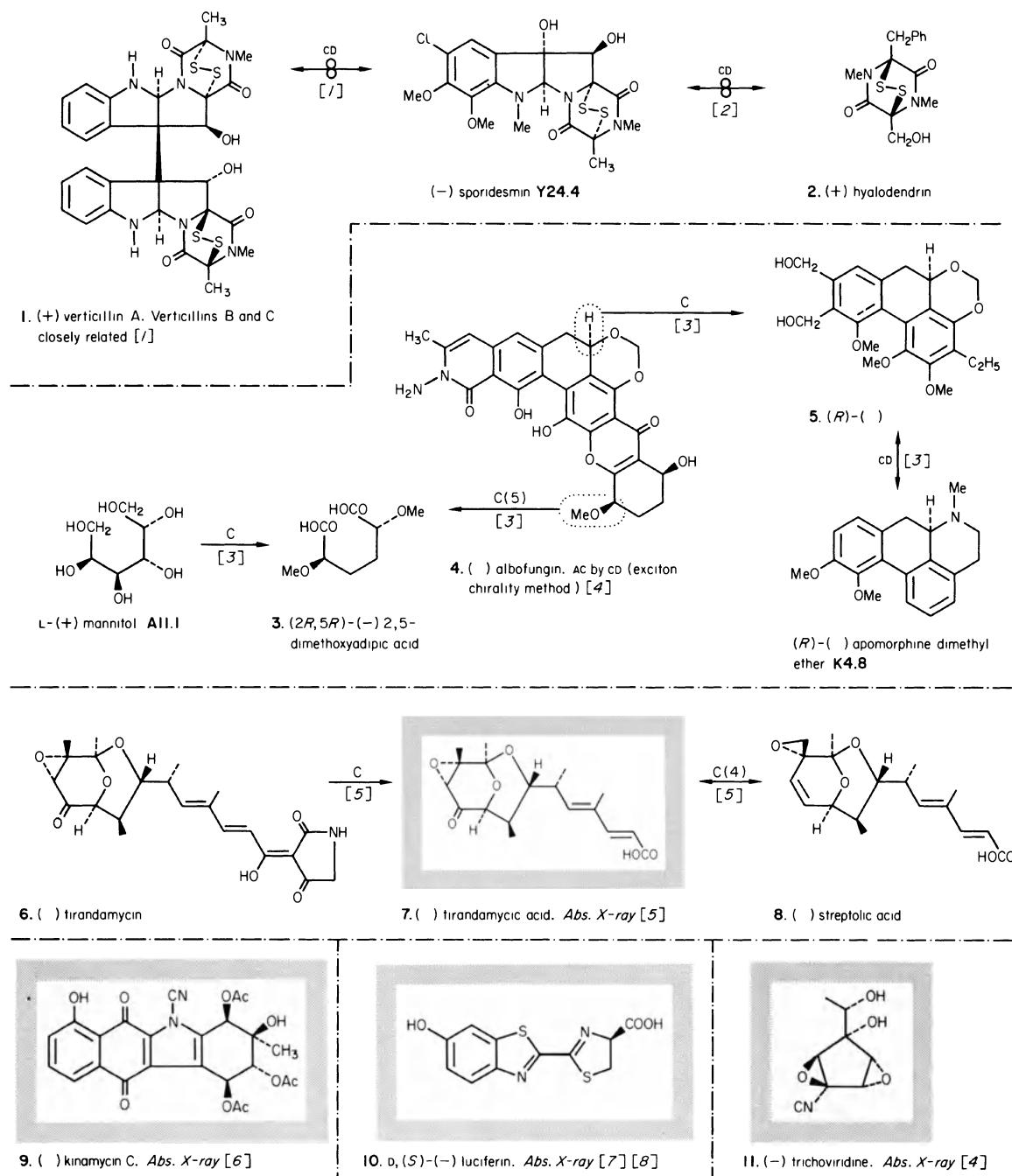


- M. G. Peter, G. Snatzke, F. Snatzke, K. N. Nagarajan and H. Schmid, *Helv. Chim. Acta*, 1974, **57**, 32.
- D. De Keukeleire and M. Verzele, *Tetrahedron*, 1971, **27**, 4939.
- D. De Keukeleire and M. Verzele, *Tetrahedron*, 1970, **26**, 385.
- N. S. Bystrov, B. K. Chernov, V. N. Dobrynnin and M. N. Kolosov, *Tetrahedron Letters*, 1975, 2791, and refs. therein.



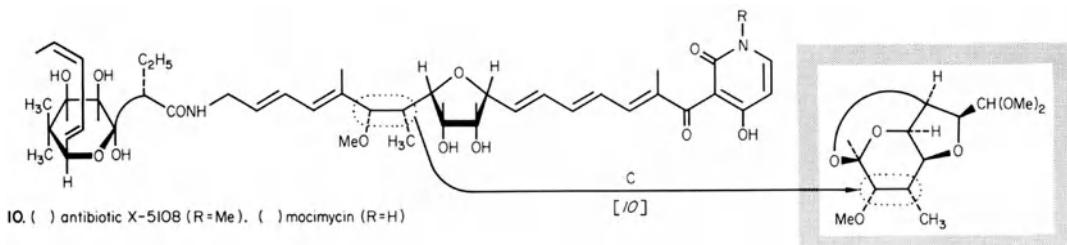
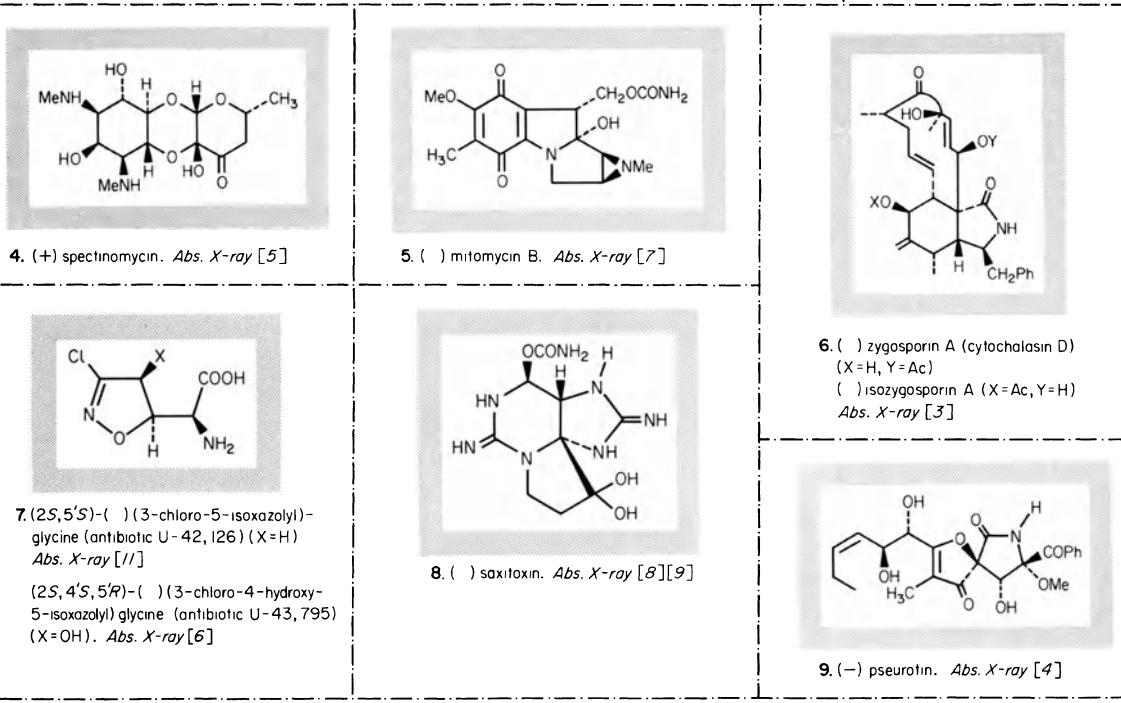
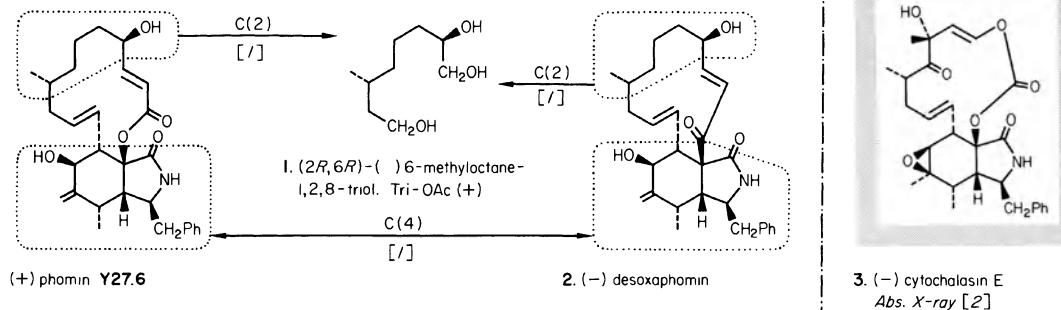
1. Y. Ikeya, H. Taguchi and Y. Iitaka, *Tetrahedron Letters*, 1976, 1359.
2. S. M. Kupchan, R. W. Britton, M. F. Ziegler, C. J. Gilmore, R. J. Restivo and R. F. Bryan, *J. Amer. Chem. Soc.*, 1973, **95**, 1335.
3. M. J. Begley, R. V. Davies, P. Henley-Smith and D. A. Whiting, *Chem. Comm.*, 1973, 649.
4. A. L. Macdonald, S. J. Rettig and J. Trotter, *Canad. J. Chem.*, 1974, **52**, 723.
5. D.-M. Yang, N. Takeda, Y. Iitaka, U. Sankawa and S. Shibata, *Tetrahedron*, 1973, **29**, 519.
6. D. W. Engel, K. Zechmeister and W. Hoppe, *Tetrahedron Letters*, 1972, 1323, and refs. therein
7. S. Seo, U. Sankawa, Y. Ogihara, Y. Iitaka and S. Shibata, *Tetrahedron*, 1973, **29**, 3721.
8. H. Besl, H. Hecht, P. Luger, V. Pasupathy and W. Steglich, *Chem. Ber.*, 1975, **108**, 3675.
9. G. M. Strunz, P. I. Kazinoti and M. A. Stillwell, *Canad. J. Chem.*, 1974, **52**, 3623.
10. W. J. McGahren, J. H. van den Hende and L. A. Mitscher, *J. Amer. Chem. Soc.*, 1969, **91**, 157.
11. L. Minale, G. Sodano, W. R. Chan and A. M. Chen, *Chem. Comm.*, 1972, 674.
12. D. B. Cosulich and F. M. Lovell, *Chem. Comm.*, 1971, 397.

## Verticillins; albofungin; tirandamycin; kinamycin; luciferin



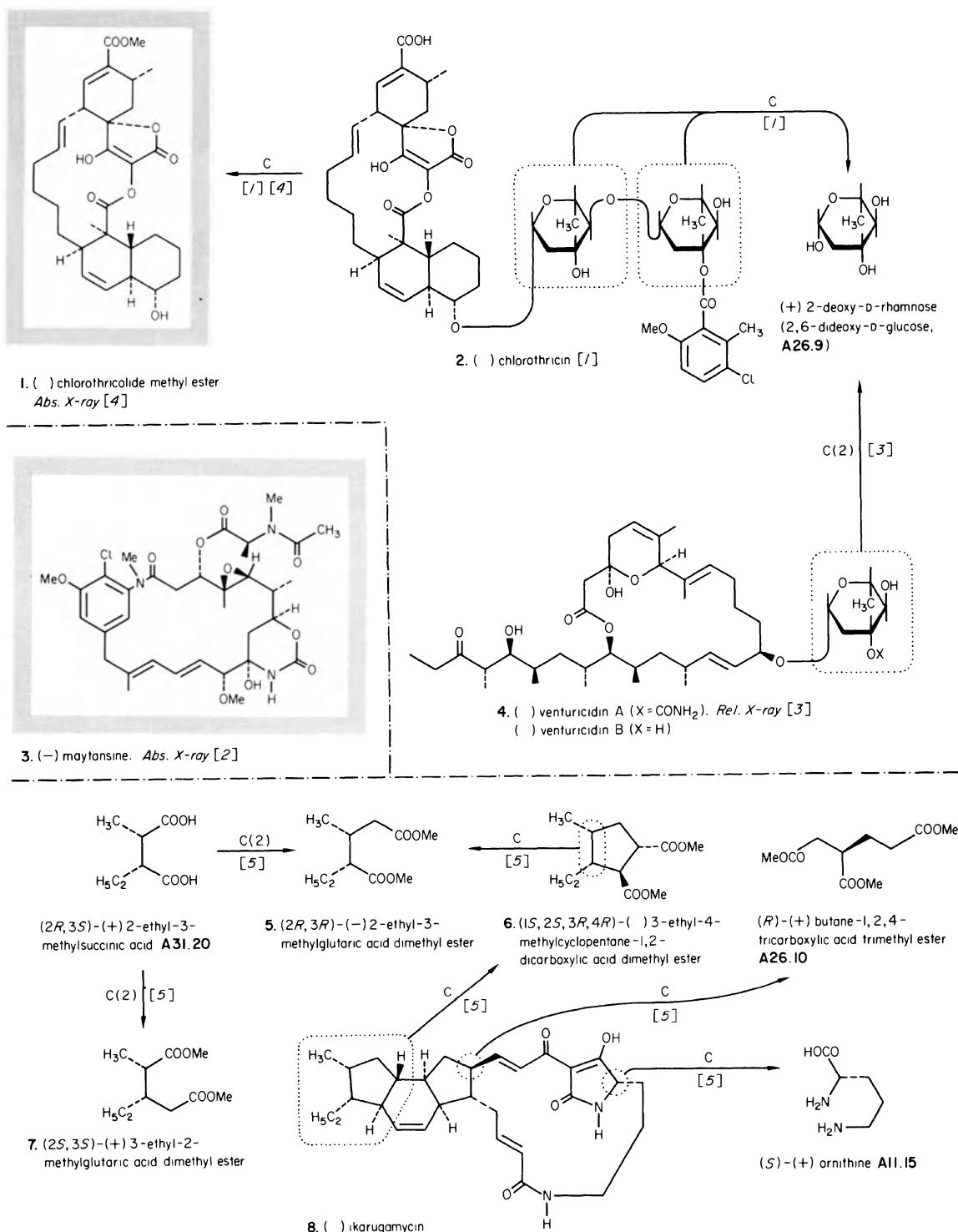
- H. Minato, M. Matsumoto and T. Katayama, *J. Chem. Soc., Perkin I*, 1973, 1819.
- G. M. Strunz, M. Kakushima, M. A. Stillwell and C. J. Heissner, *J. Chem. Soc., Perkin I*, 1973, 2600.
- A. I. Gurevich, T. N. Deshko, G. A. Kogan, M. N. Kolosov, V. V. Kudryashova and V. V. Onoprienko, *Tetrahedron Letters*, 1974, 2801.
- M. Nobuhara, H. Tazima, K. Shudo, A. Itai, T. Okamoto and Y. Iitaka, *Chem. Pharm. Bull. Japan*, 1976, 24, 832.
- D. J. Duchamp, A. R. Branfman, A. C. Button and K. L. Rinehart, *J. Amer. Chem. Soc.*, 1973, 95, 4077.
- A. Furusaki, M. Matsui, T. Watanabe, S. Omura, A. Nakagawa and T. Hata, *Israel J. Chem.*, 1972, 10, 173.
- D. Dennis and R. H. Stanford, *Acta Cryst.*, 1973, B29, 1053.
- G. E. Blank, J. Pletcher and M. Sax, *Biochem. Biophys. Res. Comm.*, 1971, 42, 583.

Review of cytochalasan metabolites [2]

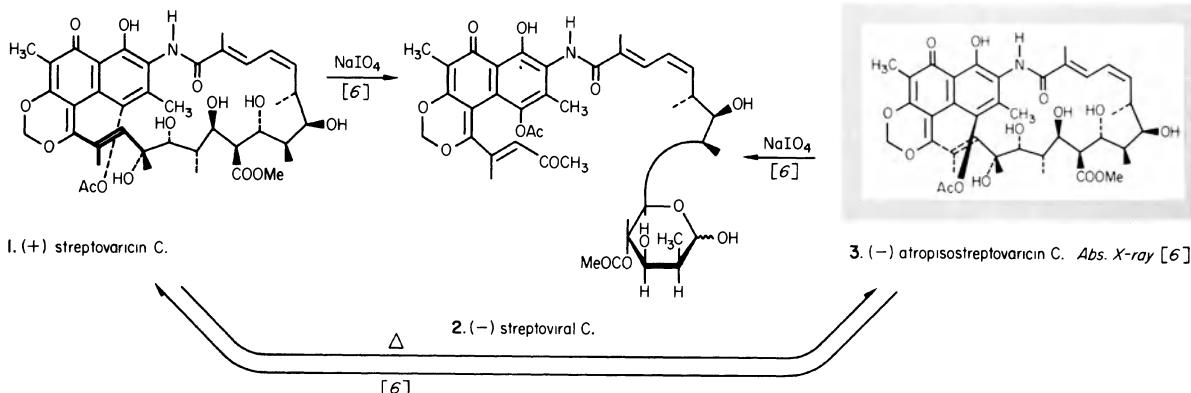


1. M. Binder and Ch. Tamm, *Helv. Chim. Acta*, 1973, **56**, 966.
2. G. Büchi, Y. Kitaura, S. Yuan, H. E. Wright, J. Clardy, A. L. Demain, T. Glinsukon, N. Hunt and G. N. Wogan, *J. Amer. Chem. Soc.*, 1973, **95**, 5423.
3. Y. Tsukuda and H. Koyama, *J. Chem. Soc., Perkin II*, 1972, 739.
4. H. P. Weber, T. J. Petcher, P. Bloch and Ch. Tamm, *Helv. Chim. Acta*, 1976, **59**, 137.
5. T. G. Cochran, D. J. Abraham and L. L. Martin, *Chem. Comm.*, 1972, 494.
6. D. G. Martin, C. G. Chidester, S. A. Mizesak, D. J. Duchamp, L. Baczynskyj, W. C. Krueger, R. J. Wnuk and P. A. Meulman, *J. Antibiotics (Japan)*, 1975, **28**, 91.
7. R. Yahashi and I. Matsubara, *J. Antibiotics (Japan)*, 1976, **29**, 104.
8. E. J. Schantz, V. E. Ghazarossian, H. K. Schnoes, F. M. Strong, J. P. Springer, J. O. Pezzanite and J. Clardy, *J. Amer. Chem. Soc.*, 1975, **97**, 1238.
9. J. Bordner, W. E. Thiessen, H. A. Bates and H. Rapoport, *J. Amer. Chem. Soc.*, 1976, **97**, 6008.
10. H. Maehr, M. Leach, J. F. Blount and A. Stempel, *J. Amer. Chem. Soc.*, 1974, **96**, 4034.
11. (+) 3,5-epoxyhexahydro-2-dimethoxymethyl-6-methoxy-5,7-dimethyl-2*H*-furo[3,2-*b*]pyran  
Abs. X-ray [10]
12. M. Binder and Ch. Tamm, *Angew. Chem., Internat. Edn.*, 1973, **12**, 370.

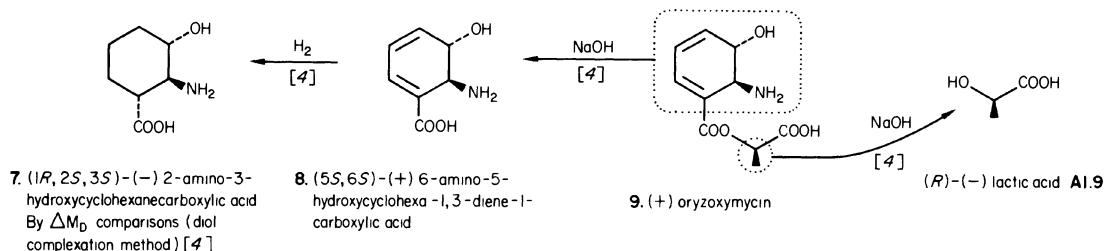
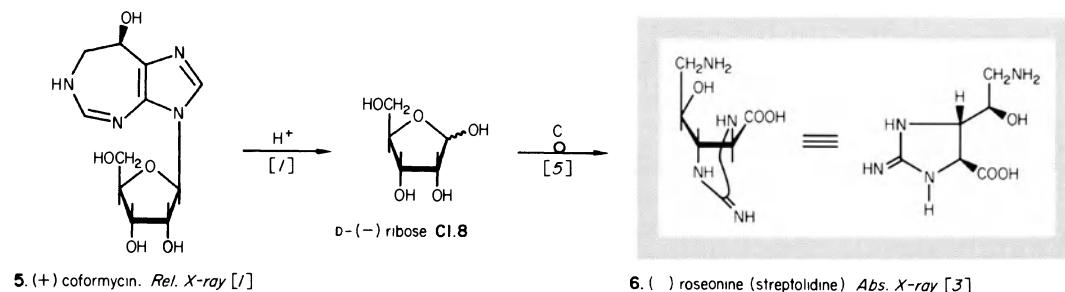
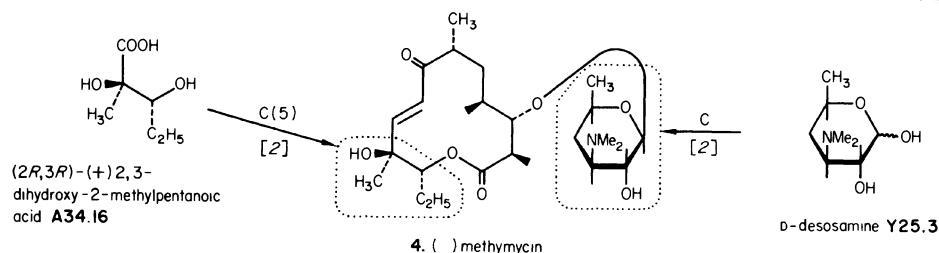
## Chlorothricin, maytansine, venturicidins, ikarugamycin



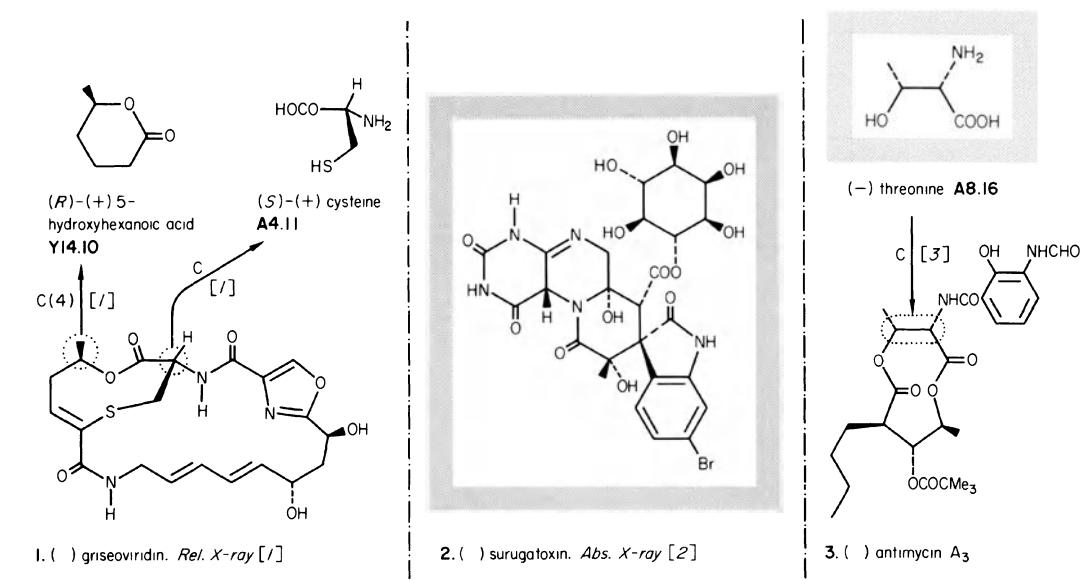
- R. Muntwyler and W. Keller-Schierlein, *Helv. Chim. Acta*, 1972, **55**, 2071.
- S. M. Kupchan, Y. Komoda, W. A. Court, G. J. Thomas, R. M. Smith, A. Karim, C. J. Gilmore, R. C. Haltiwanger and R. F. Bryan, *J. Amer. Chem. Soc.*, 1972, **94**, 1354.
- M. Brufani, L. Cellai, C. Musu and W. Keller-Schierlein, *Helv. Chim. Acta*, 1972, **55**, 2329.
- M. Brufani, S. Cerrini, W. Fedeli, F. Mazza and R. Muntwyler, *Helv. Chim. Acta*, 1972, **55**, 2094.
- S. Ito and Y. Hirata, *Tetrahedron Letters*, 1972, 2557, and refs. therein.



This is claimed to be the only known example of atropisomer interconversion in natural products [6]



- H. Nakamura, G. Koyama, Y. Iitaka, M. Ohno, N. Yagisawa, S. Kondo, K. Maeda and H. Umezawa, *J. Amer. Chem. Soc.*, 1974, 96, 4327.
- S. Masamune, C. U. Kim, K. E. Wilson, G. O. Spessard, P. E. Georgiou and G. S. Bates, *J. Amer. Chem. Soc.*, 1975, 97, 3512; S. Masamune, H. Yamamoto, S. Kamata and A. Fukuzawa, *ibid.*, 3513.
- B. W. Bycroft and T. J. King, *Chem. Comm.*, 1972, 652.
- T. Hashimoto, S. Kondo, H. Naganawa, T. Takita, K. Maeda and H. Umezawa, *J. Antibiotics (Japan)*, 1974, 27, 86.
- T. Goto and T. Ohgi, *Tetrahedron Letters*, 1974, 1413; S. Kusumoto, S. Tsuji and T. Shiba, *ibid.*, 1417.
- K. L. Rinehart, W. M. J. Knöll, K. Kakinuma, F. J. Antosz, I. C. Paul, A. H.-J. Wang, F. Reusser, L. H. Li and W. C. Krueger, *J. Amer. Chem. Soc.*, 1975, 97, 196.

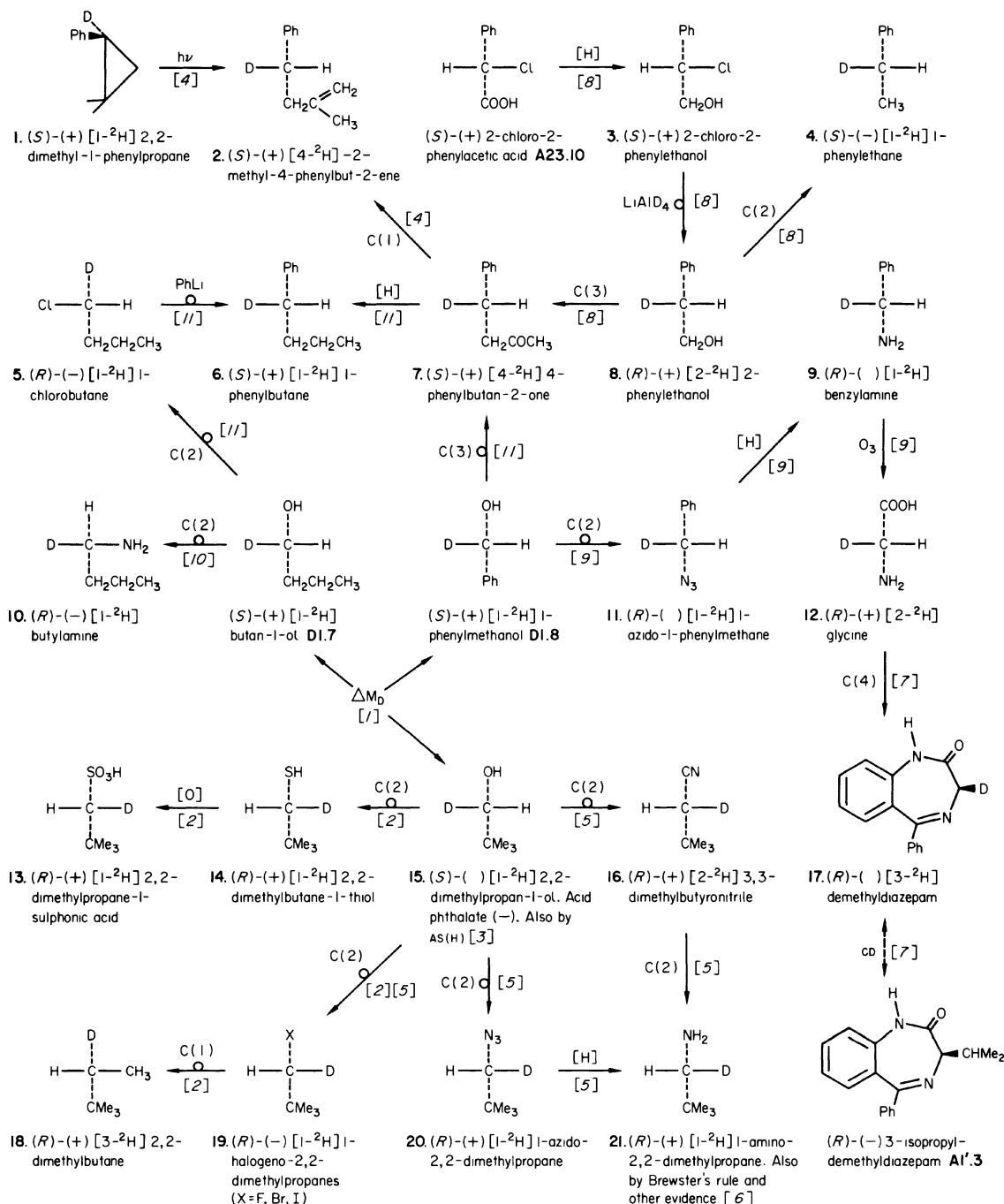


1. G. I. Birnbaum and S. R. Hall, *J. Amer. Chem. Soc.*, 1976, **98**, 1927, and refs. therein.
2. T. Kosuge, H. Zenda, A. Ochiai, N. Masaki, M. Noguchi, S. Kimura and H. Narita, *Tetrahedron Letters*, 1972, 2545.
3. M. Kinoshita, S. Aburaki, M. Wada and S. Umezawa, *Bull. Chem. Soc. Japan*, 1973, **46**, 1279.

D'

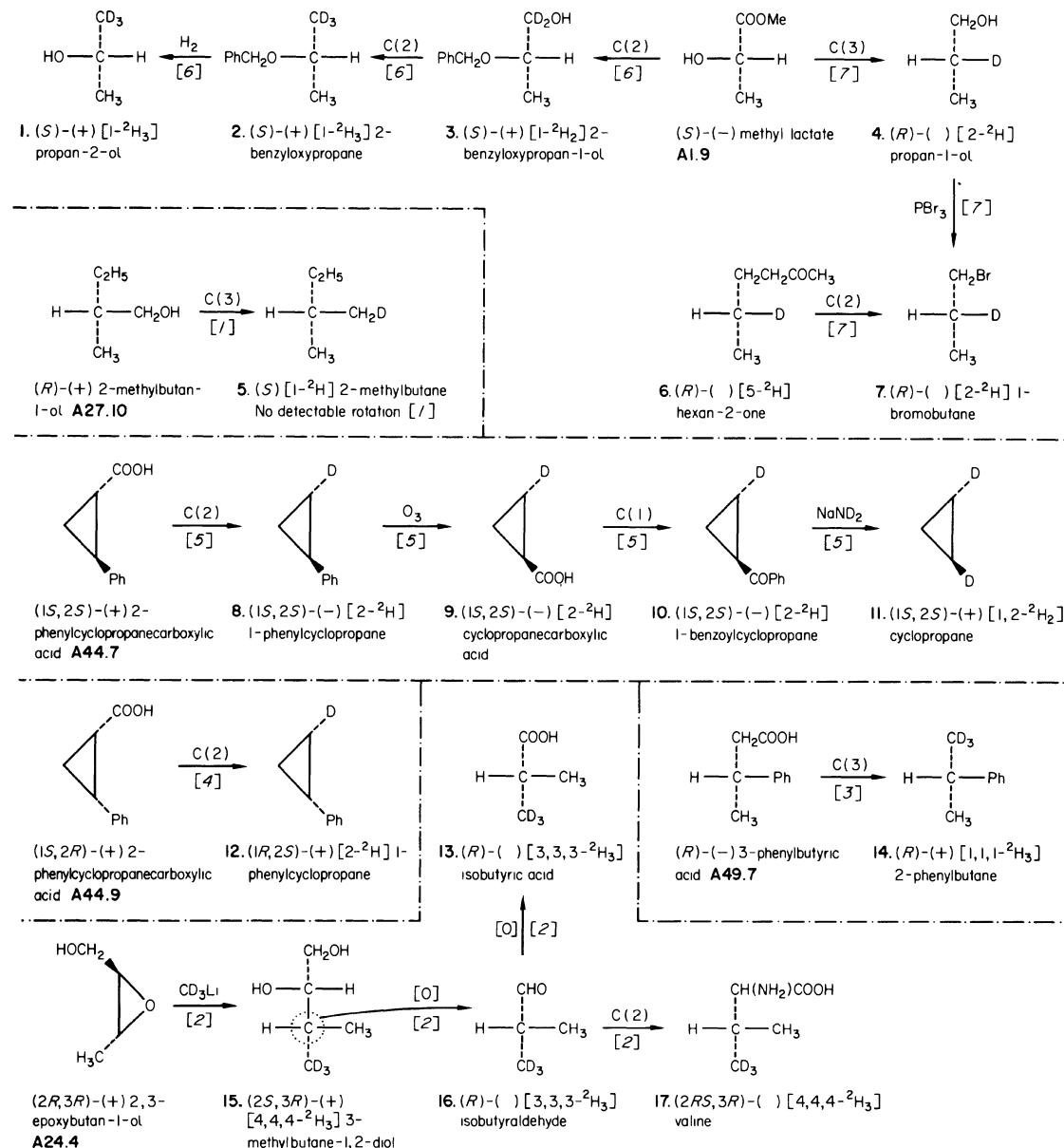
# Compounds with Chirality due to Isotopic Substitution

---



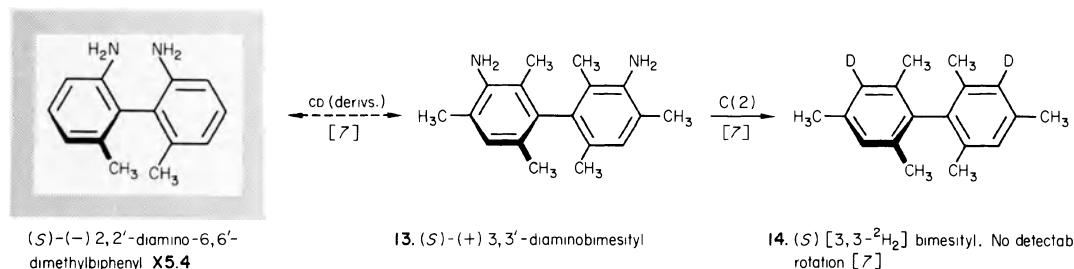
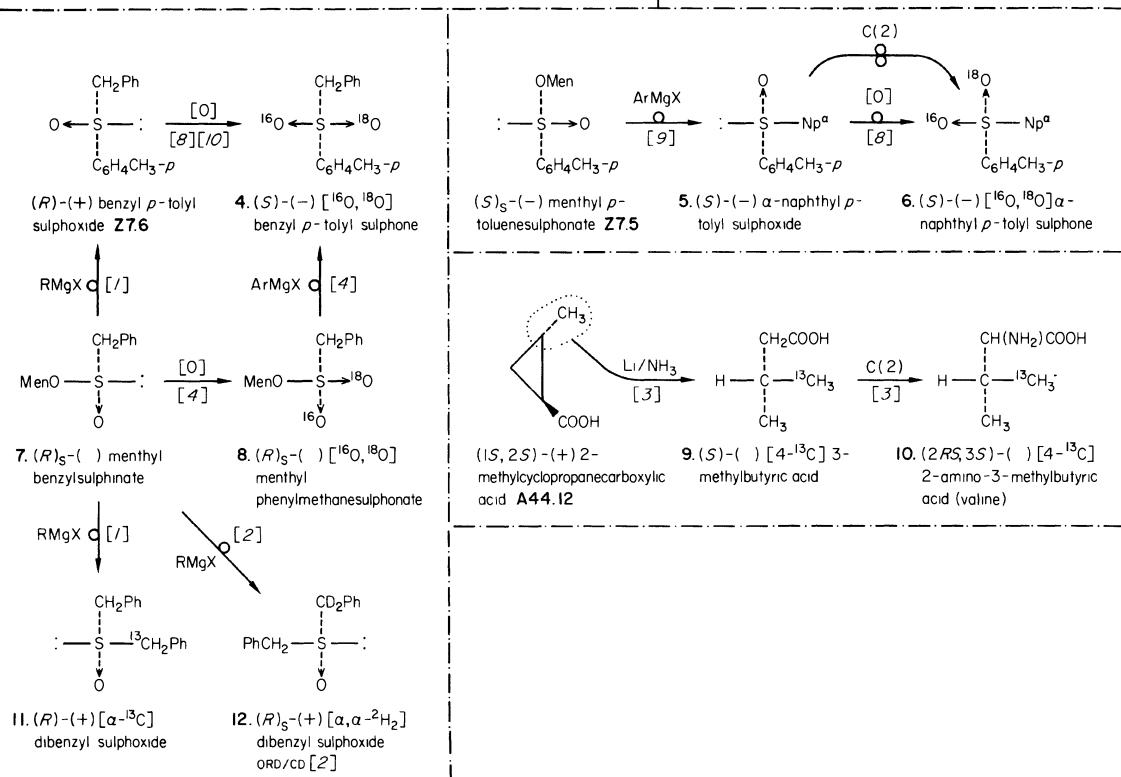
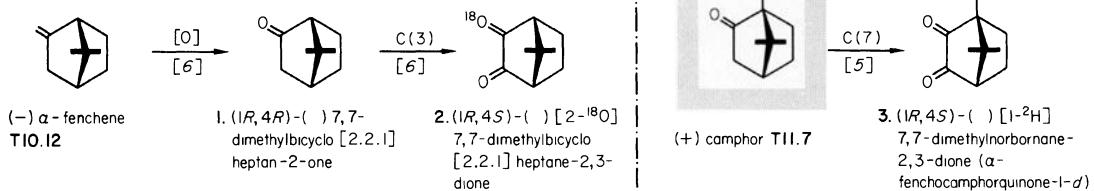
- V. E. Althouse, K. Ueda and H. S. Mosher, *J. Amer. Chem. Soc.*, 1960, **82**, 5938.
- P. H. Anderson, B. Stephenson and H. S. Mosher, *J. Amer. Chem. Soc.*, 1974, **96**, 3171.
- A. Horeau and A. Nouaille, *Tetrahedron Letters*, 1966, 3953.
- P. H. Mazzocchi and R. S. Lustig, *J. Amer. Chem. Soc.*, 1973, **95**, 7178.
- B. Stephenson, G. Solladie' and H. Mosher, *J. Amer. Chem. Soc.*, 1972, **94**, 4184.
- R. D. Guthrie, W. Meister and D. J. Cram, *J. Amer. Chem. Soc.*, 1967, **89**, 5288.
- A. Corbella, P. Gariboldi, G. Jommi, A. Forgirone, F. Marcucci, P. Martelli, E. Mussini and F. Mauri, *Chem. Comm.*, 1973, 721.
- C. H. DePuy, F. W. Breitbeil and K. R. DeBruin, *J. Amer. Chem. Soc.*, 1966, **88**, 3347.
- A. R. Battersby, J. Staunton and M. C. Summers, *J. Chem. Soc., Perkin I*, 1976, 1052.
- A. Streitwieser and W. D. Schaeffer, *J. Amer. Chem. Soc.*, 1956, **78**, 5597.
- A. Streitwieser, J. R. Wolfe and W. D. Schaeffer, *Tetrahedron*, 1959, **6**, 338.

# D<sup>2</sup>



- H. C. Brown and C. Groot, *J. Amer. Chem. Soc.*, 1942, **64**, 2563.
- D. J. Aberhart, *Tetrahedron Letters*, 1975, 4373; D. J. Aberhart and L. J. Lin, *J. Chem. Soc., Perkin I*, 1974, 2320.
- A. Streitwieser and P. J. Stang, *J. Amer. Chem. Soc.*, 1965, **87**, 4953.
- J. A. Berson, L. D. Pederson and B. K. Carpenter, *J. Amer. Chem. Soc.*, 1976, **98**, 122.
- J. A. Berson and L. D. Pederson, *J. Amer. Chem. Soc.*, 1975, **97**, 238.
- K. Mislow, R. E. O'Brien and H. Schaefer, *J. Amer. Chem. Soc.*, 1962, **84**, 1940.
- M. M. Green, J. G. McGrew and J. M. Moldowan, *J. Amer. Chem. Soc.*, 1972, **93**, 6700.

Mainly (i) Deuterium compounds with axial or planar chirality, (ii) Chirality due to isotopes of atoms other than hydrogen. (See also Z5'.1)



- K. K. Andersen, S. Colonna and C. J. M. Stirling, *Chem. Comm.*, 1973, 645.
- K. K. Andersen, M. Cinquini, S. Colonna and F. L. Pilar, *J. Org. Chem.*, 1975, 40, 3780.
- J. E. Baldwin, L. Lölicher, W. Rastetter, N. Neuss, L. L. Huckstep and N. De La Higuera, *J. Amer. Chem. Soc.*, 1973, 95, 3796.
- M. A. Sabol and K. K. Andersen, *J. Amer. Chem. Soc.*, 1969, 91, 3603.
- W. C. M. C. Kokke and L. J. Oosterhoff, *J. Amer. Chem. Soc.*, 1973, 95, 7159.
- W. C. M. C. Kokke and L. J. Oosterhoff, *J. Amer. Chem. Soc.*, 1972, 94, 7583.
- M. Bloch, N. Lau, H. Musso and U.-I. Zahorszky, *Chem. Ber.*, 1972, 105, 1790.
- R. Annunziata, M. Cinquini and S. Colonna, *J. Chem. Soc., Perkin I*, 1972, 2057.
- K. K. Andersen, W. Gaffield, N. E. Papanikolaou, J. W. Foley and R. I. Perkins, *J. Amer. Chem. Soc.*, 1964, 86, 5637.
- C. J. M. Stirling, *J. Chem. Soc.*, 1963, 5741.

# X'

## Compounds containing Chiral Axes, Planes, etc.

---

### Introductory Notes to Chapter X'

#### *Arrangement*

##### Axes of Chirality

Allenes, alkylidenecycloalkanes and related compounds **X1'**  
Spiro compounds **X2'-X3'**

##### Axes of Chirality; compounds showing atropisomerism

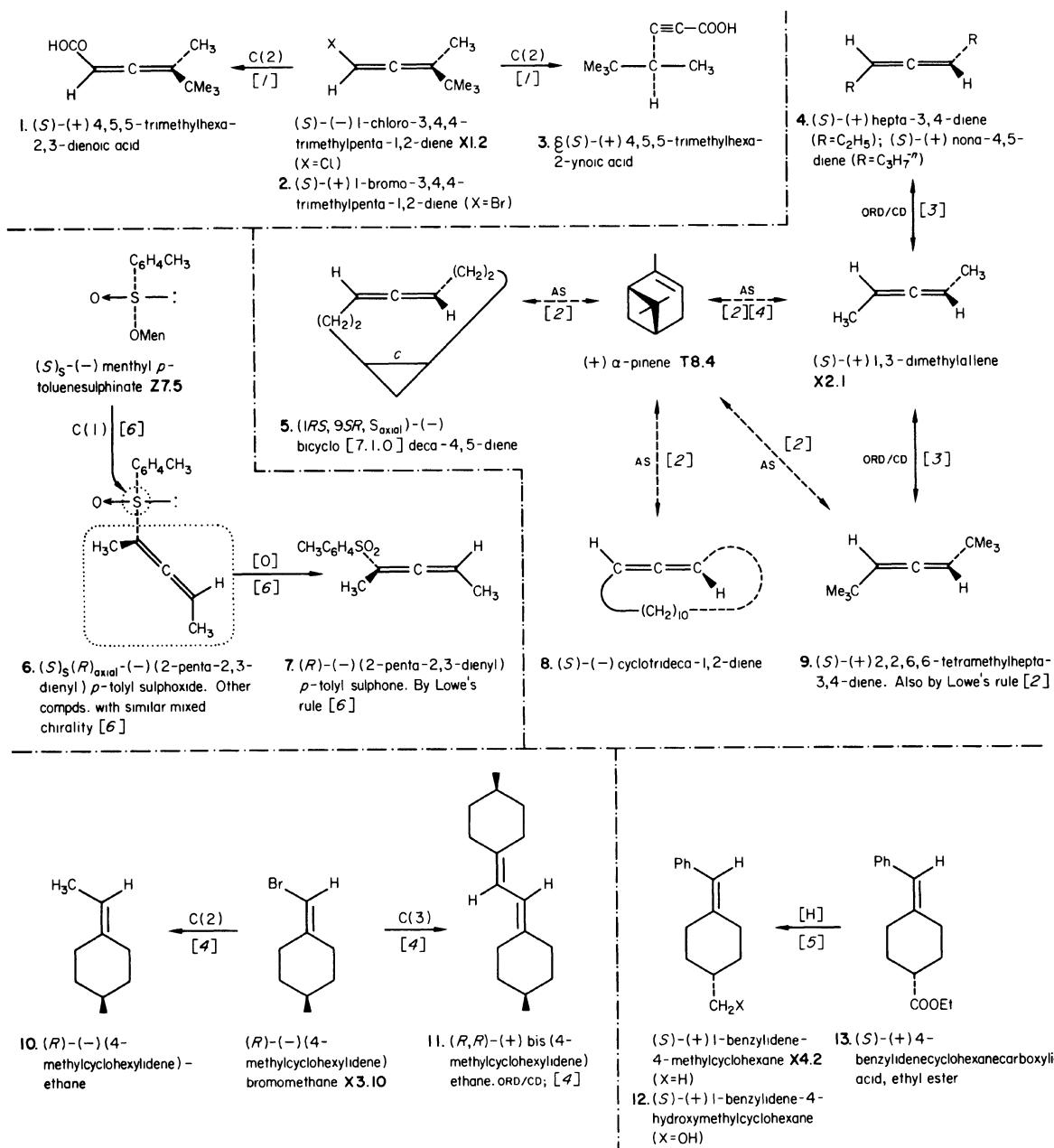
Biaryls **X4'**  
Helicenes **X6'**

##### Planes of Chirality

Cyclophanes **X6'-X9'**  
Metallocenes **X9'**

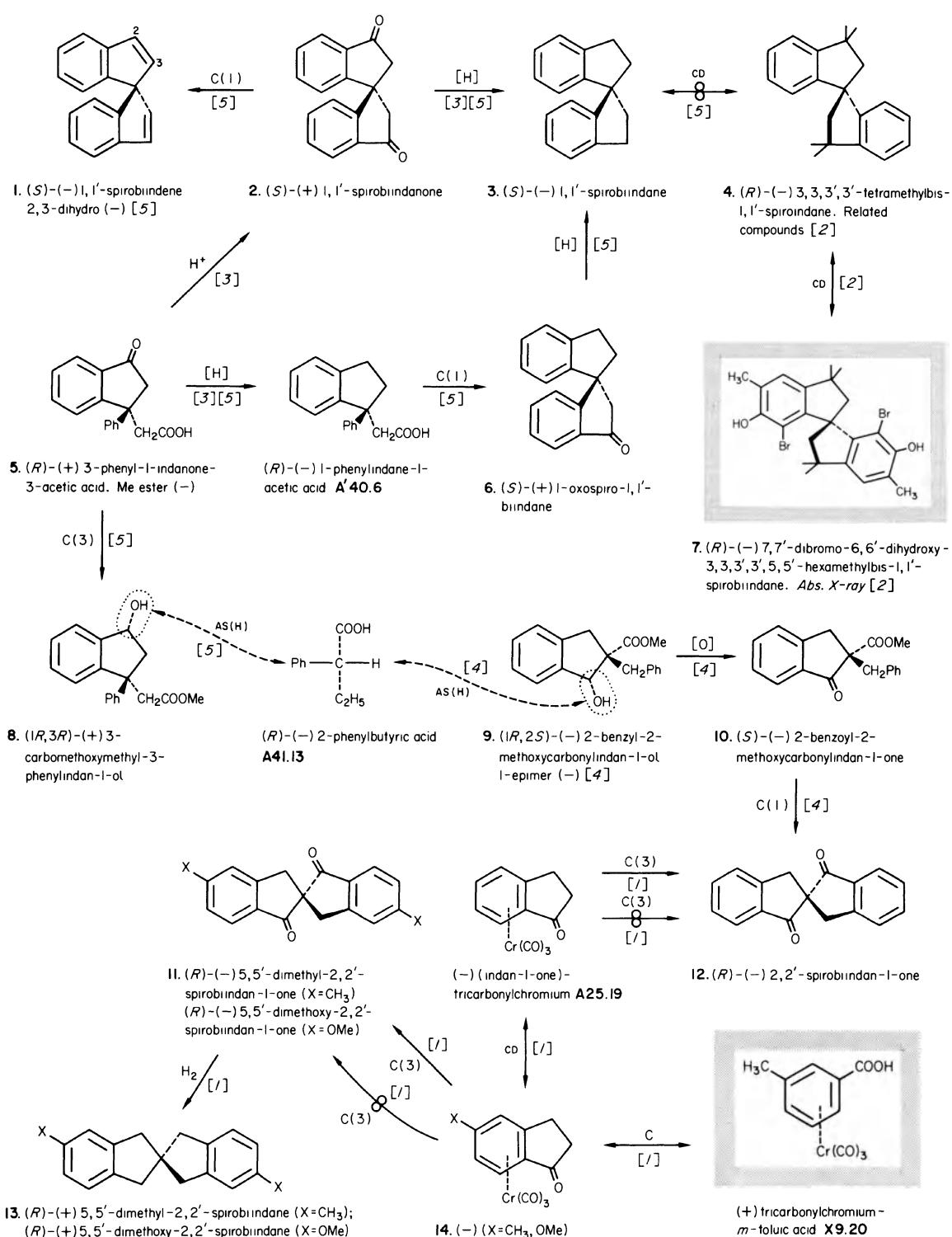
##### Miscellaneous compounds of high symmetry **X4'-X5'**, **X10'-X11'**

## Further allenes and alkylidenecycloalkanes



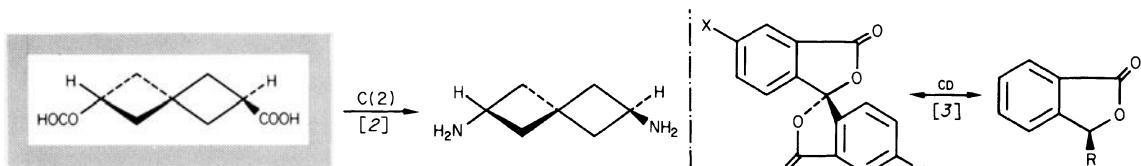
- S. R. Landor, B. Demetriou, R. J. Evans, R. Grzeskowiak and P. Davey, *J. Chem. Soc., Perkin II*, 1972, 1995.
- M. Bertrand, J.-L. Gras and J. Gore, *Tetrahedron*, 1975, 31, 857.

- W. R. Moore, H. W. Anderson and S. D. Clark, *J. Amer. Chem. Soc.*, 1973, 95, 835.
- R. B. Banks and H. M. Walborsky, *J. Amer. Chem. Soc.*, 1976, 98, 3732.
- H. J. Bestmann, E. Heid, W. Ryschka and J. Lienert, *Annalen*, 1974, 1684.
- M. Cinquini, S. Colonna and C. J. M. Stirling, *Chem. Comm.*, 1975, 256.

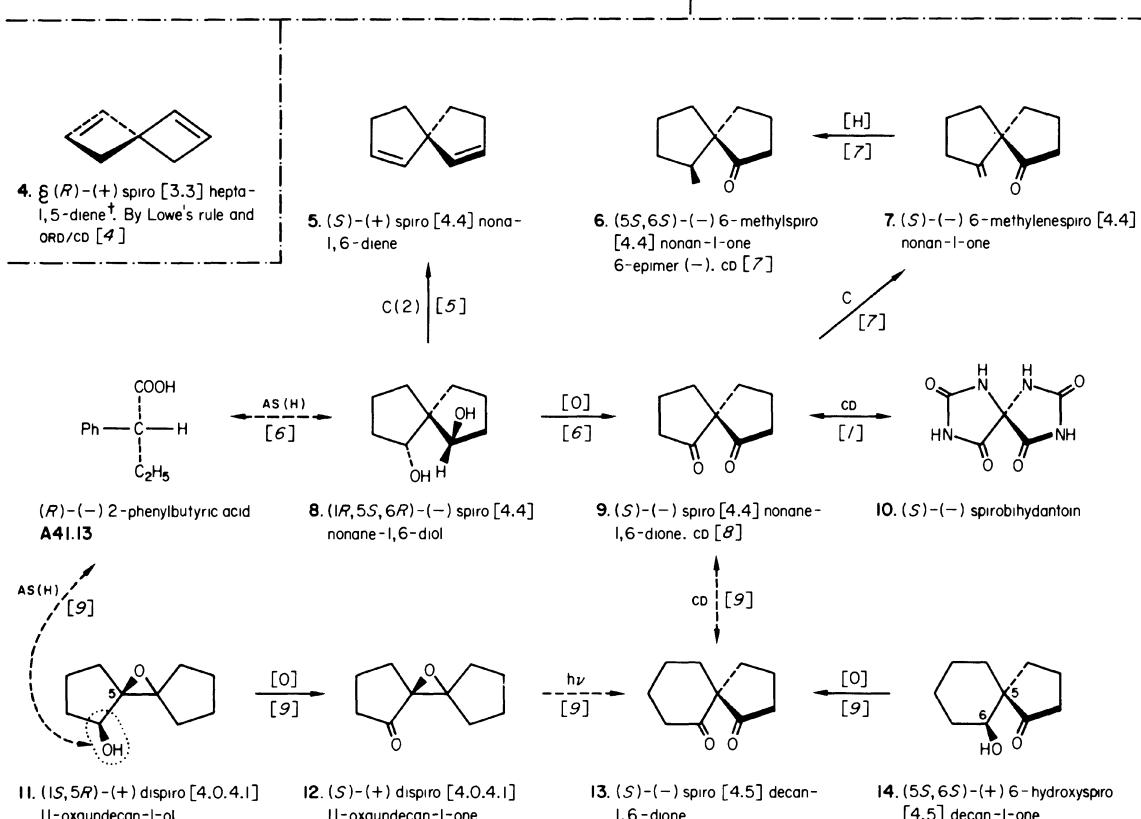


- A. Meyer, H. Neudeck and K. Schlögl, *Tetrahedron Letters*, 1976, 2233, and refs. therein.
- S. Hagishita, K. Kuriyama, M. Hayashi, Y. Nakano, K. Shingu and M. Nakagawa, *Bull. Chem. Soc. Japan*, 1971, **44**, 496.
- R. K. Hill and D. A. Cullison, *J. Amer. Chem. Soc.*, 1973, **95**, 1229.
- H. Falk, W. Fröstl and K. Schlögl, *Tetrahedron Letters*, 1974, 217.
- J. H. Brewster and R. T. Prudence, *J. Amer. Chem. Soc.*, 1973, **95**, 1217.

## Spiro-compounds, including Fecht acid



Great care needed: see footnotes †‡



† Chirality is specified here as central chirality according to the most recent convention. In [2] the older system was used, according to which X'3.1 and X'3.4 are the  $(S)-(+)$  enantiomers.

‡ The first Bijvoet X-ray determination (1973) on Fecht acid indicated the opposite AC which has been reversed by the most recent work [2]. Other methods (e.g. Lowe's rule) also indicated what is now thought to be the *wrong* absolute configuration [2].

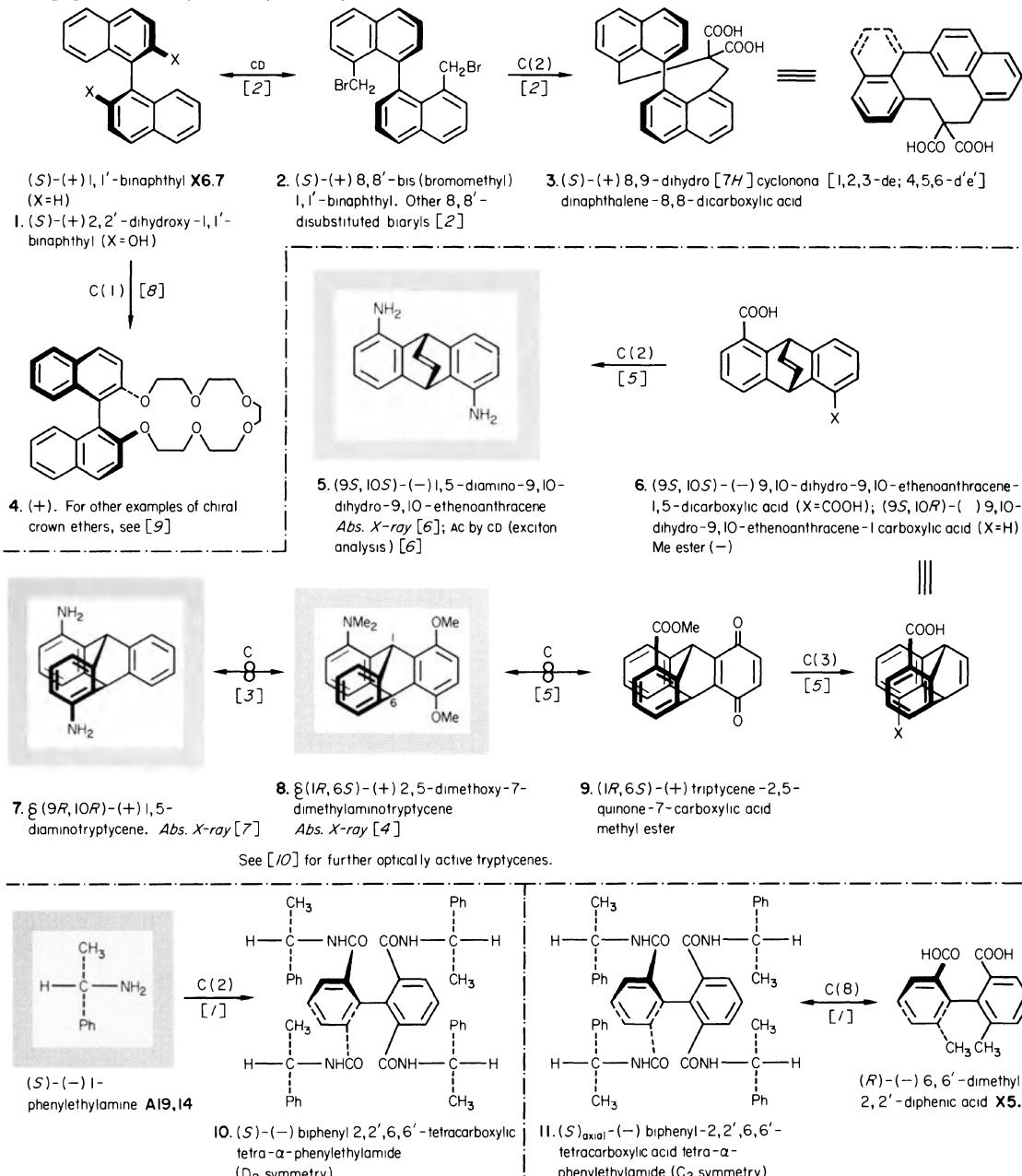
[ / ] contains a general survey of the optical activity of compounds  $C_2$  symmetry.

- W. Hug and G. Wagnière, *Tetrahedron*, 1972, **28**, 1241.
- L. A. Hulshof, H. Wynberg, B. van Dijk and J. L. de Boer, *J. Amer. Chem. Soc.*, 1976, **98**, 2733.
- S. Hagishita and K. Kuriyama, *Tetrahedron Letters*, 1974, 4099.
- L. A. Hulshof, M. A. McKervey and H. Wynberg, *J. Amer. Chem. Soc.*, 1974, **96**, 3906.
- H. Gerlach and W. Müller, *Helv. Chim. Acta*, 1972, **55**, 2277.
- H. Gerlach, *Helv. Chim. Acta*, 1968, **51**, 1587.
- D. A. Lightner and G. D. Christiansen, *Tetrahedron Letters*, 1972, 883.
- D. A. Lightner, G. D. Christiansen and J. L. Melquist, *Tetrahedron Letters*, 1972, 2045.
- H. J. Wüthrich, A. Siewinski, H. Schaffner and O. Jeger, *Helv. Chim. Acta*, 1973, **56**, 239.

# X<sup>4'</sup>

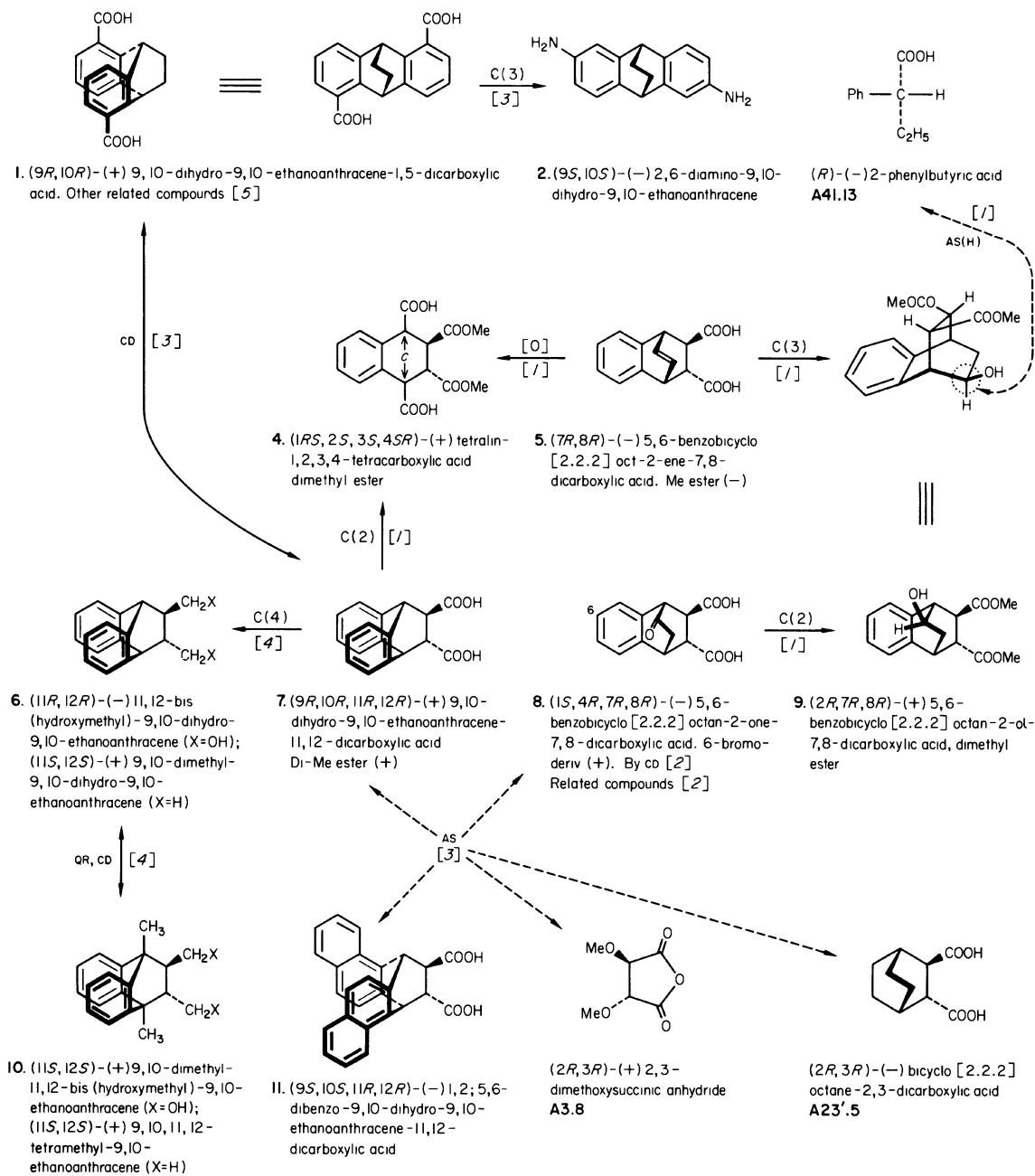
## Biaryls; triptycenes and ethanoanthracenes

See [//] for a review of optical activity in the biaryl series.

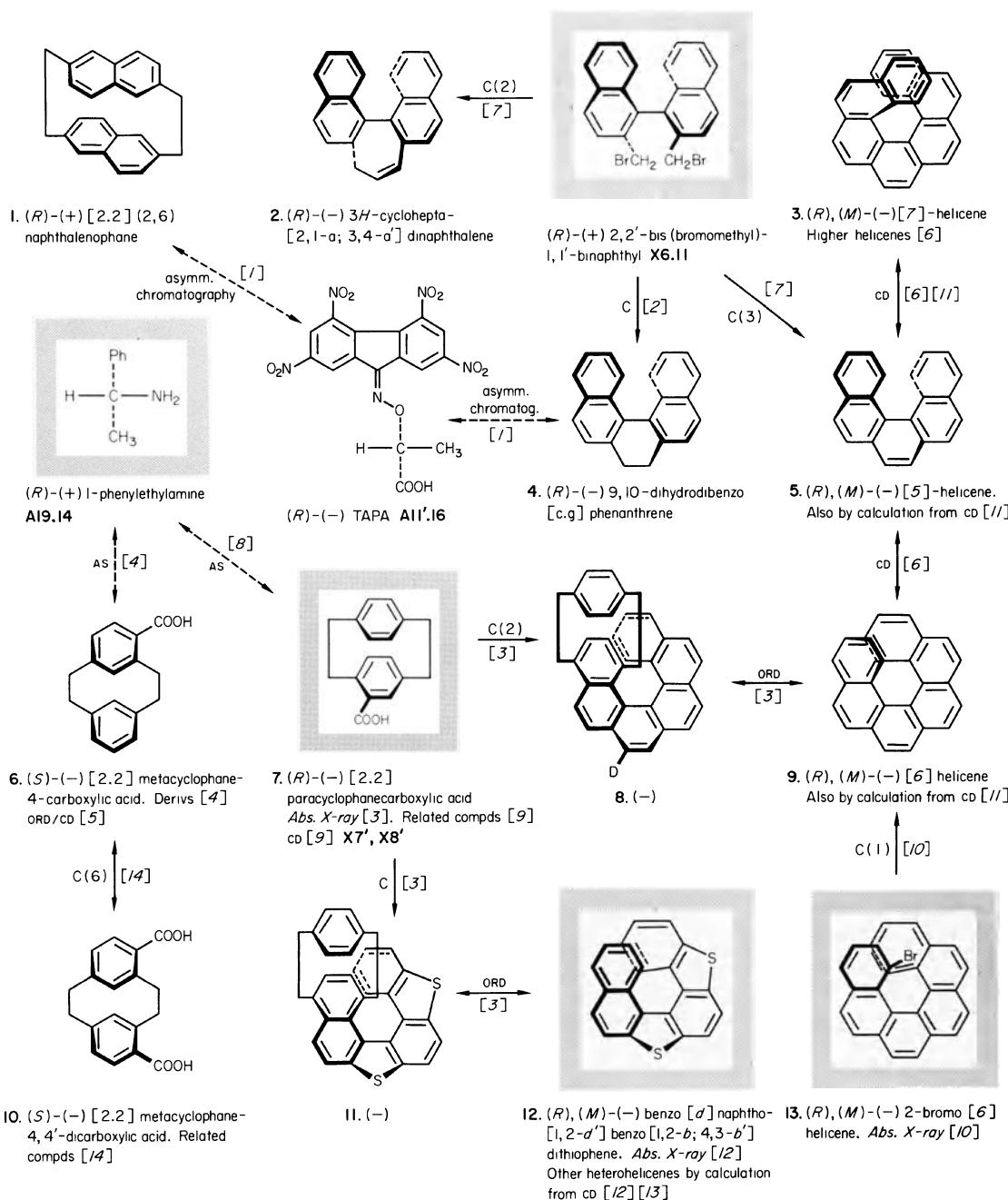


For a discussion of the specification of chirality in these compounds, see [//]. The D<sub>2</sub> isomer X<sup>4'10</sup> has no axial chirality and the chirality of the molecule as a whole is therefore defined by the (S) chirality of the α-phenylethylamine residues. The C<sub>2</sub> isomer X<sup>4'11</sup> has axial chirality. See [//] for the application of (R, S) nomenclature and also for other, non-chiral, isomers.

- G. Helmchen, G. Haas and V. Prelog, *Helv. Chim. Acta*, 1973, **56**, 2255.
- H. E. Harris, M. M. Harris, R. Z. Mazengo and S. Singh, *J. Chem. Soc., Perkin II*, 1974, 1059; M. M. Harris and S. Singh *ibid.*, 1976, 793.
- M. Kuritani, Y. Sakata, F. Ogura and M. Nakagawa, *Chimia (Switz)*, 1972, **26**, 470.
- N. Sakabe, K. Sakabe, K. Ozeki-Minakata and J. Tanaka, *Acta Cryst.*, 1972, **28**, 3441.
- Y. Shimizu, H. Tatemitsu, F. Ogura and M. Nakagawa, *Chem. Comm.*, 1973, 22, and refs. therein.
- S. F. Mason, *Chem. Comm.*, 1973, 239.
- A. M. F. Hezemans and M. P. Groenewegen, *Tetrahedron*, 1973, **29**, 1223.
- E. B. Kyba, K. Koga, L. R. Sousa, M. G. Siegel and D. J. Cram, *J. Amer. Chem. Soc.*, 1973, **95**, 2692.
- G. D. Y. Sogah and D. J. Cram, *J. Amer. Chem. Soc.*, 1976, **98**, 3038, and refs. therein.
- M. Kuritani, Y. Sakata, F. Ogura and M. Nakagawa, *Bull. Chem. Soc. Japan*, 1973, **46**, 605; Y. Sakata, F. Ogura and M. Nakagawa, *ibid.*, 611; F. Ogura and M. Nakagawa, *ibid.*, 651; Y. Shimizu, T. Naito, F. Ogura and M. Nakagawa, *ibid.*, 1520.
- S. F. Mason, R. H. Seal and D. R. Roberts, *Tetrahedron*, 1974, **30**, 1671.

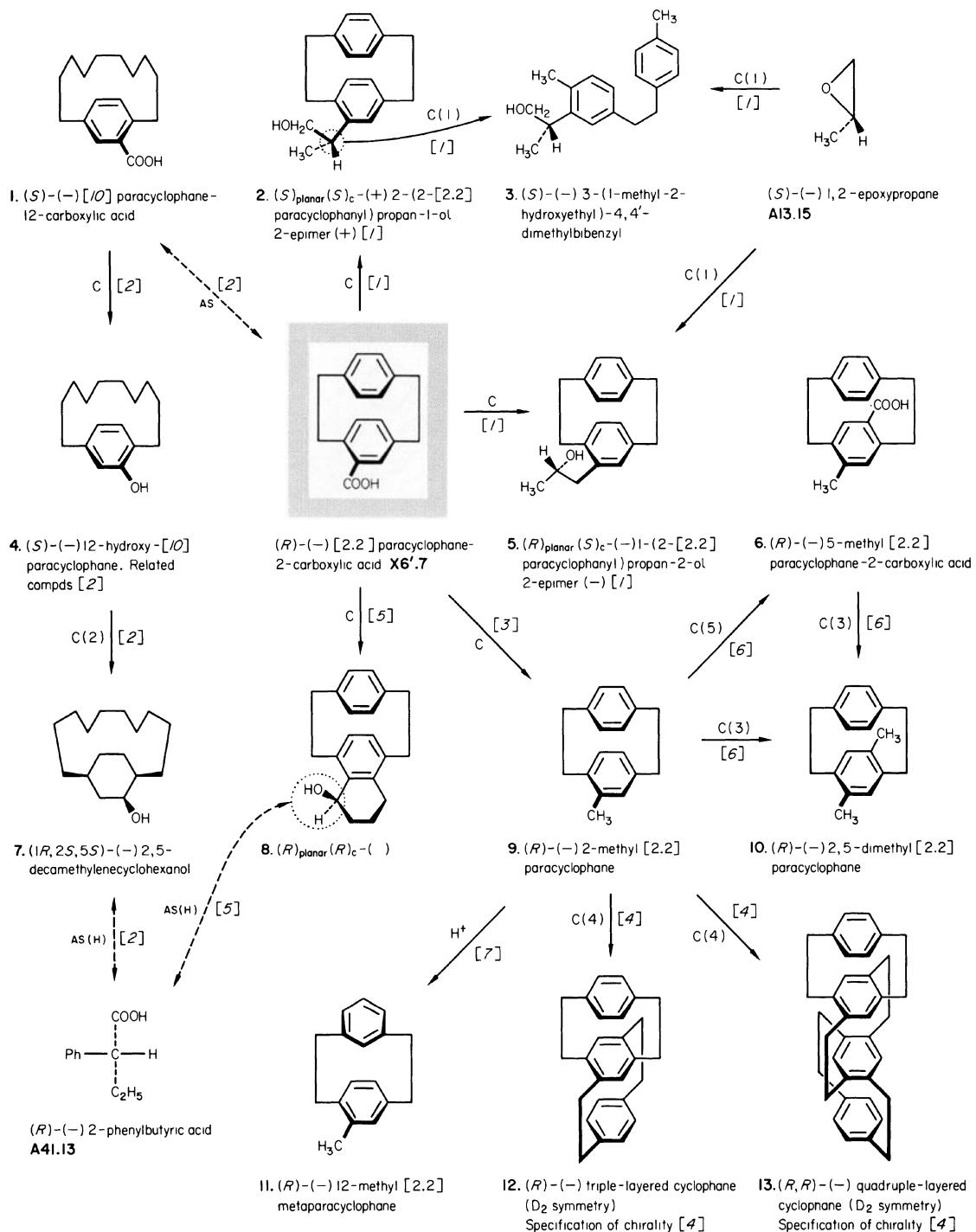


- M. J. Brienne and J. Jacques, *Tetrahedron Letters*, 1973, 1053.
- K. Takeda, S. Hagishita, M. Sugiura, K. Kitahonoki, I. Ban, S. Miyazaki and K. Kuriyama, *Tetrahedron*, 1970, **26**, 1435
- S. Hagishita and K. Kuriyama, *Tetrahedron*, 1972, **28**, 1435.
- M. J. Brienne and J. Jacques, *Bull. Soc. chim. France*, 1974, 2647.
- J. Paul and K. Schlägl, *Monatsh.*, 1973, **104**, 274.

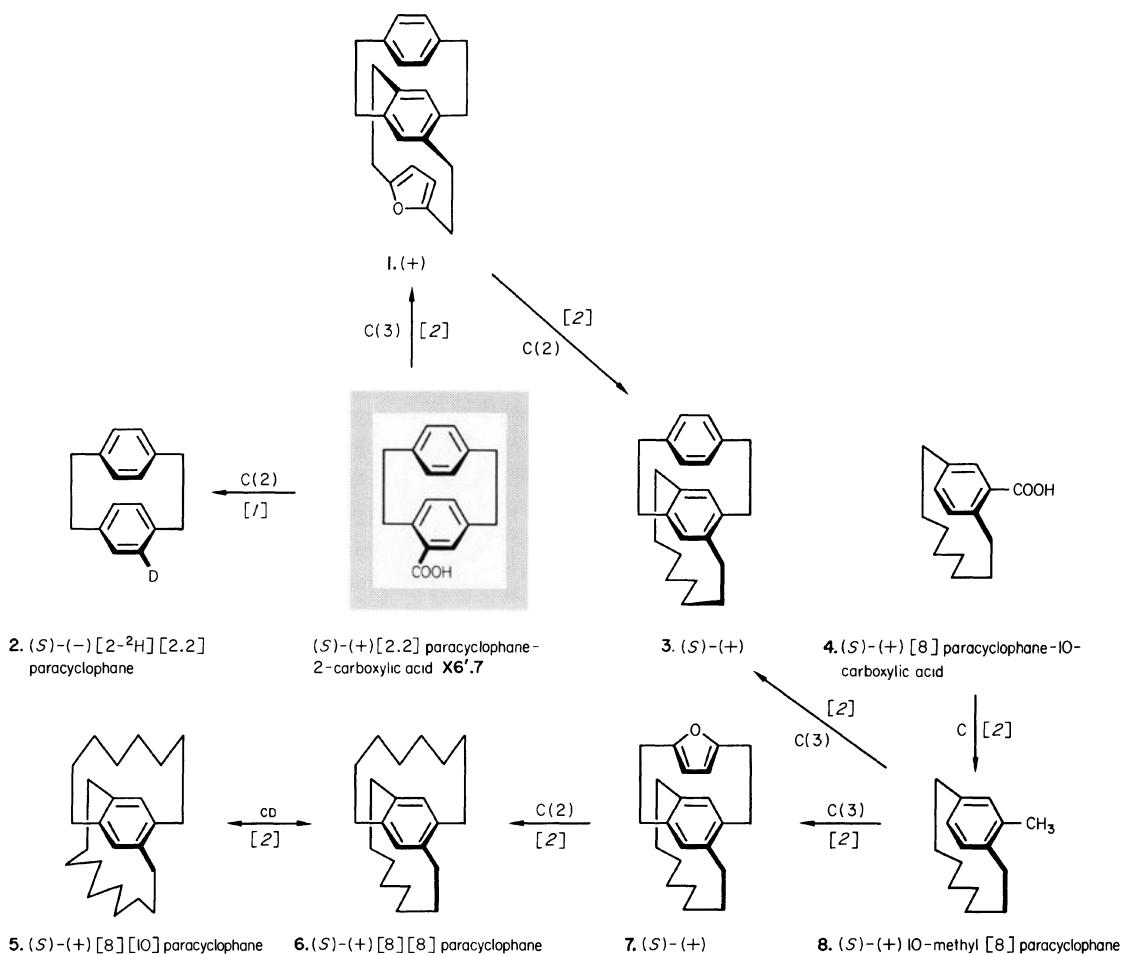


- M. Haenel and H. A. Staab, *Chem. Ber.*, 1973, **106**, 2203.
- K. Mislow and F. A. McGinn, *J. Amer. Chem. Soc.*, 1958, **80**, 6036.
- J. Tribout, R. H. Martin, M. Doyle and H. Wynberg, *Tetrahedron Letters*, 1972, 2839.
- B. Kainradl, E. Langer, H. Lehner and K. Schlägl, *Annalen*, 1972, **766**, 16.
- E. Langer and H. Lehner, *Monatsh.*, 1973, **104**, 644.
- R. H. Martin and M. J. Marchant, *Tetrahedron*, 1974, **30**, 343.
- H. J. Bestmann and W. Both, *Chem. Ber.*, 1974, **107**, 2923, 2926.
- H. Falk and K. Schlägl, *Angew. Chem. Internat. Edn.*, 1968, **7**, 383.
- H. Falk, P. Reich-Rohrwig and K. Schlägl, *Tetrahedron*, 1970, **26**, 511.
- D. A. Lightner, D. T. Hefelfinger, G. W. Frank, T. W. Powers and K. N. Trueblood, *Nature*, 1971, **232**, 124.
- A. Brown, C. M. Kemp and S. F. Mason, *J. Chem. Soc. (A)*, 1971, 751; 756.
- M. B. Groen, G. Stulen, G. J. Visser and H. Wynberg, *J. Amer. Chem. Soc.*, 1970, **92**, 7218.
- M. B. Groen and H. Wynberg, *J. Amer. Chem. Soc.*, 1971, **93**, 2968.
- C. Krieger, H. Lehner and K. Schlägl, *Monatsh.*, 1976, **107**, 195.

## Cyclophanes

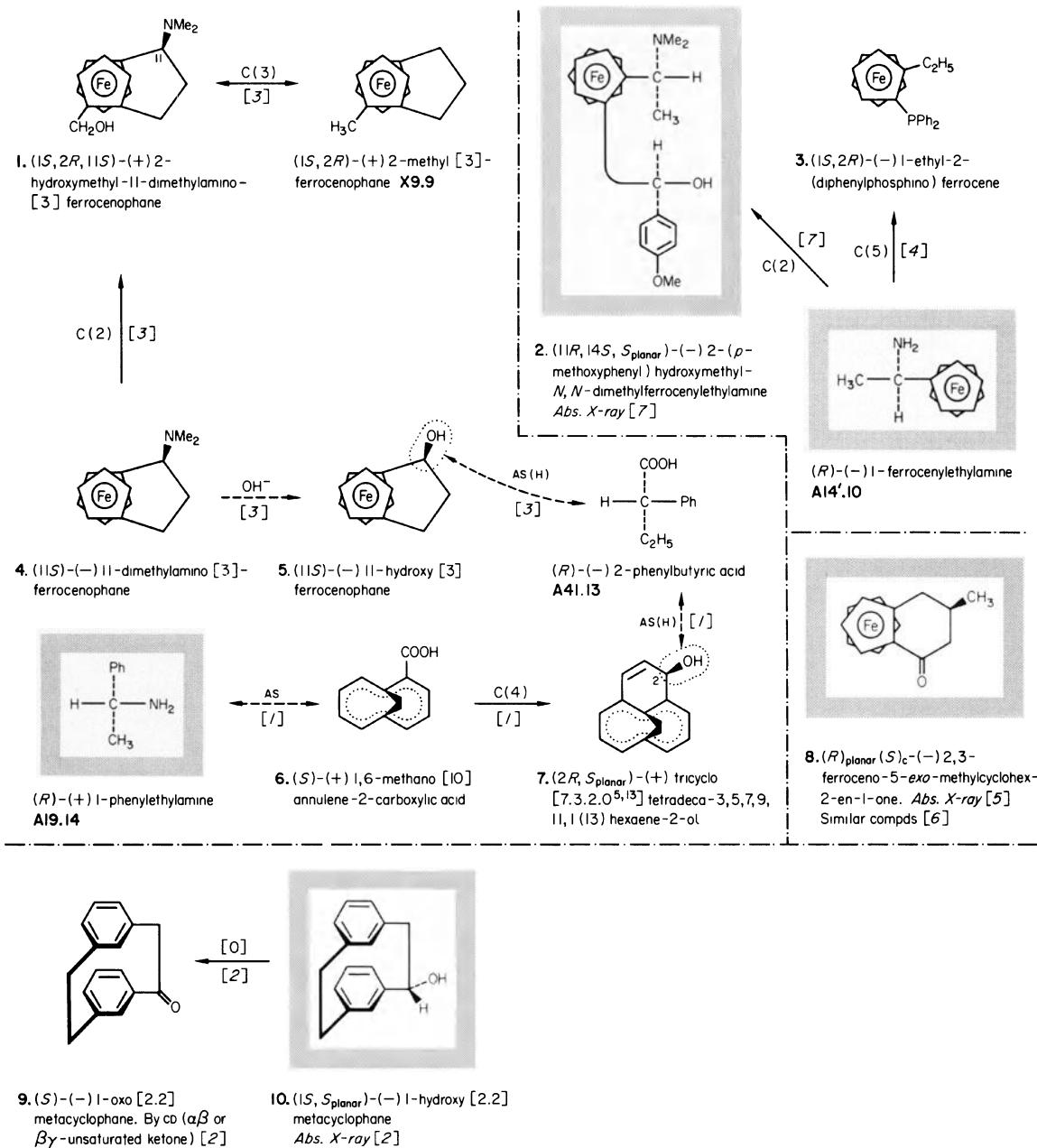


- A. Guest, P. H. Hoffman and M. J. Nugent, *J. Amer. Chem. Soc.*, 1972, 94, 4241.
- H. Eberhardt and K. Schlägl, *Annalen*, 1972, 760, 157.
- M. J. Nugent and O. E. Weigang, *J. Amer. Chem. Soc.*, 1969, 91, 4556.
- M. Nakazaki, K. Yamamoto and S. Tanaka, *Chem. Comm.*, 1972, 433.
- H. Falk, P. Reich-Rohrwig and K. Schlägl, *Tetrahedron*, 1970, 26, 511.
- M. H. Delton and D. J. Cram, *J. Amer. Chem. Soc.*, 1972, 94, 2471.
- M. H. Delton, R. E. Gilman and D. J. Cram, *J. Amer. Chem. Soc.*, 1971, 93, 2329.



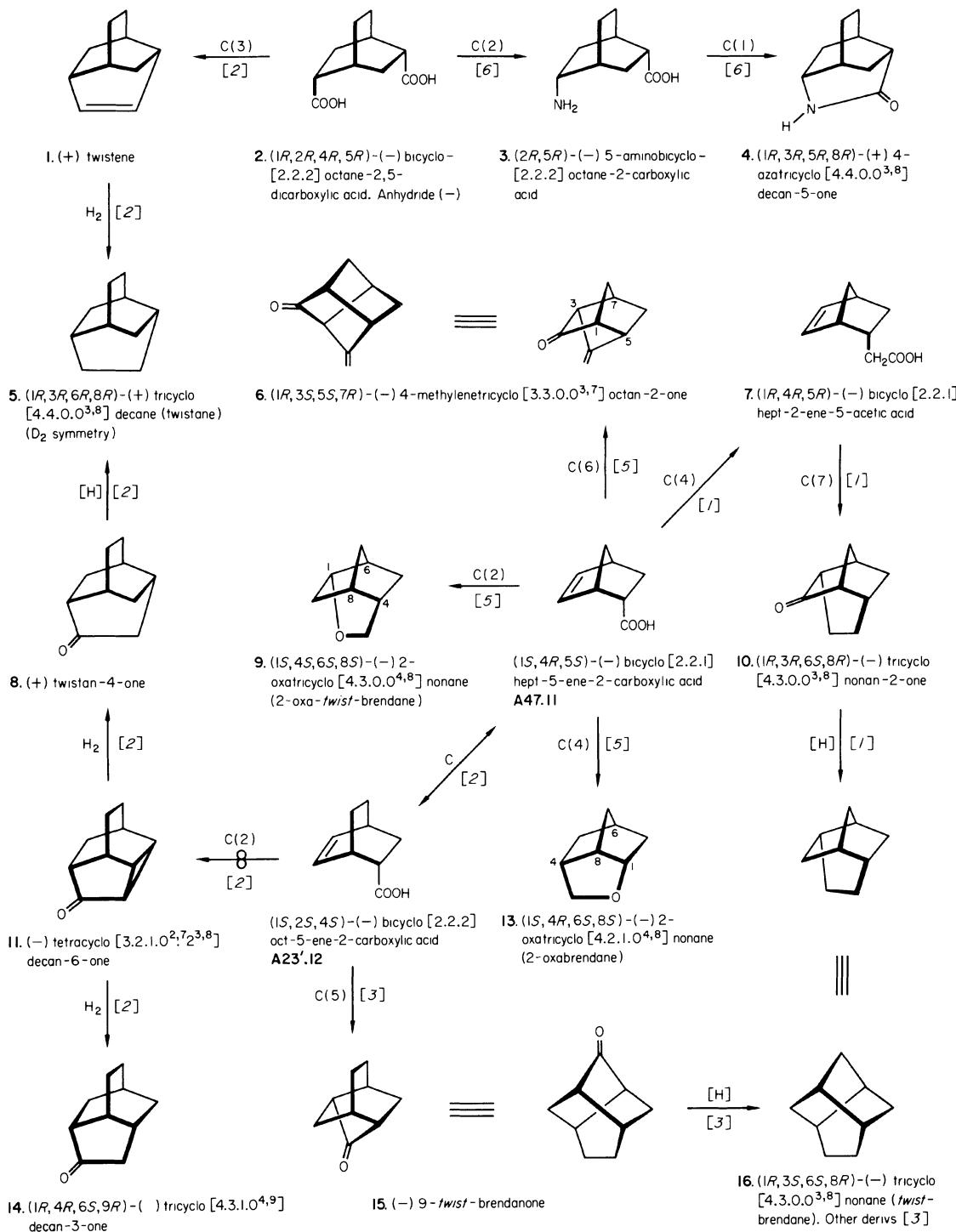
A sector rule has been advanced [3] for predicting the ACs of various types of carbophanes from their CD. The proposed rule, however, predicts the incorrect AC for [8][8] paracyclophane X8'.6 and other [m][n] paracyclophanes [2].

1. P. H. Hoffman, E. C. Ong, O. E. Weigang and M. J. Nugent, *J. Amer. Chem. Soc.*, 1974, **96**, 2620.
2. K. Yamamoto and M. Nakazaki, *Chem. Letters*, 1974, 1051.
3. E. Langer, H. Lehner and K. Schlögl, *Tetrahedron*, 1973, **29**, 2473.

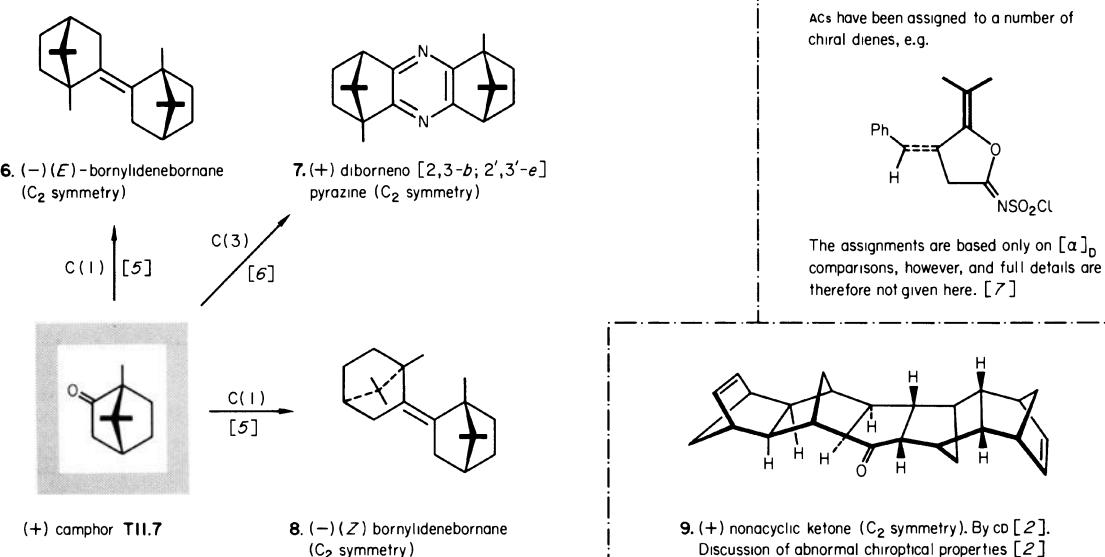
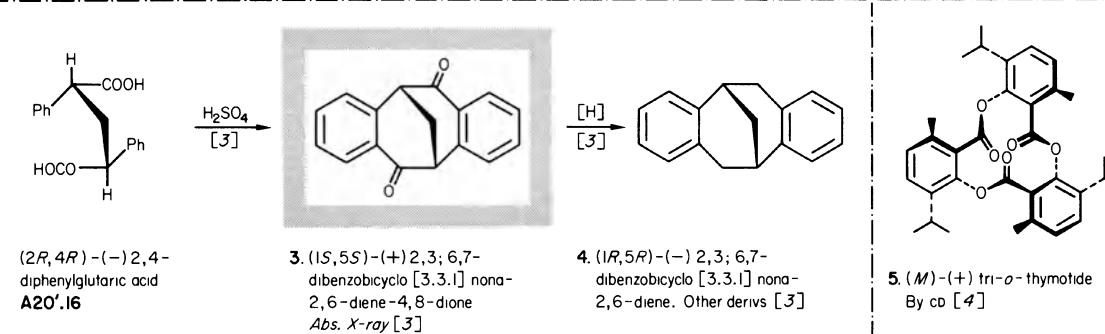
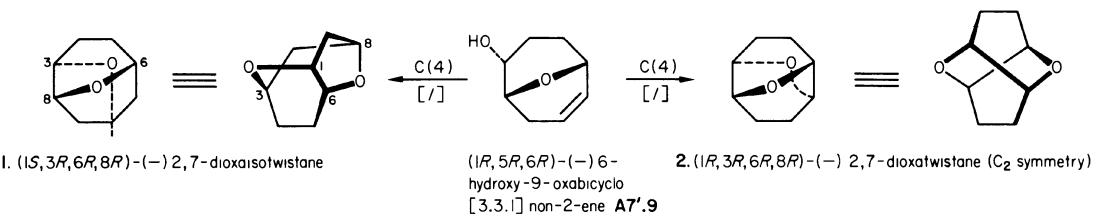


- U. Kuffner and K. Schlögl, *Monatsh.*, 1972, **103**, 1320.
- K. Mislow, M. Brzechffa, H. W. Gschwend and R. T. Puckett, *J. Amer. Chem. Soc.*, 1973, **95**, 621.
- C. Y. S. Khay, G. Tainturier and B. Gautheron, *Tetrahedron Letters*, 1974, 2207, and refs. therein.
- T. Hayashi, K. Yamamoto and M. Kumada, *Tetrahedron Letters*, 1974, 4405.
- C. Lecomte, Y. Dusausoy, J. Protas, B. Gautheron and R. Broussier, *Acta Cryst.*, 1973, **B29**, 1504.
- J. P. Letourneau, B. Gautheron and R. Broussier, *Bull. Soc. chim. France*, 1975, 2171, and refs. therein.
- L. F. Battelle, R. Bau, G. W. Gokel, R. T. Oyakawa and I. Ugi, *J. Amer. Chem. Soc.*, 1973, **95**, 482.

ORD/CD of twistane derivs [4]



- K. Naemura and M. Nakazaki, *Bull. Chem. Soc. Japan*, 1973, **46**, 888.
- M. Tichy, *Coll. Czech. Chem. Comm.*, 1974, **39**, 2673, and refs. therein.
- M. Nakazaki, K. Naemura and S. Harita, *Bull. Chem. Soc. Japan*, 1975, **48**, 1907.
- G. Snatzke and F. Werner-Zamojska, *Tetrahedron Letters*, 1972, 4275.
- M. Nakazaki, K. Naemura and Y. Kondo, *J. Org. Chem.*, 1976, **41**, 1229.
- M. Tichy, E. Duskova and K. Blaha, *Tetrahedron Letters*, 1974, 237.



- P. Ackermann, H. Tobler and C. Ganter, *Helv. Chim. Acta*, 1972, **55**, 2731.
- E. Weissberger, *J. Amer. Chem. Soc.*, 1974, **96**, 7219.
- H. Tatemitsu, F. Ogura, Y. Nakagawa, M. Nakagawa, K. Naemura and M. Nakazaki, *Bull. Chem. Soc. Japan*, 1975, **48**, 2473.
- A. P. Downing, W. D. Ollis, I. O. Sutherland, J. Mason and S. F. Mason, *Chem. Comm.*, 1968, 329.
- H. Wynberg, K. Lammertsma and L. A. Hulshof, *Tetrahedron Letters*, 1975, 3749.
- H. E. Smith and A. A. Hicks, *J. Org. Chem.*, 1971, **36**, 3659.
- D. J. Pasto and J. K. Borchardt, *J. Amer. Chem. Soc.*, 1974, **96**, 6220.

# Z'

## Compounds containing Chiral Atoms other than Carbon

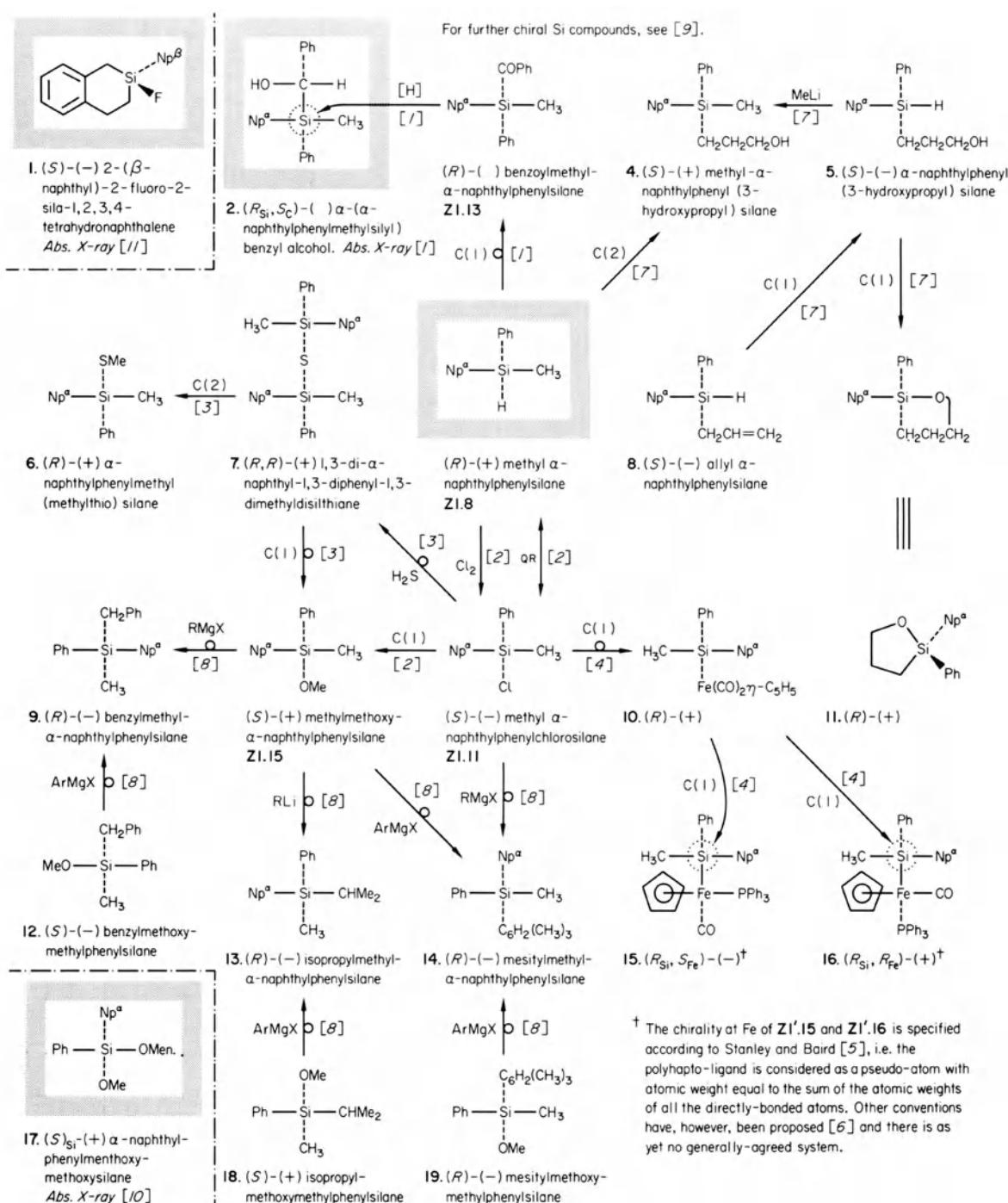
---

### Introductory Notes to Chapter Z'

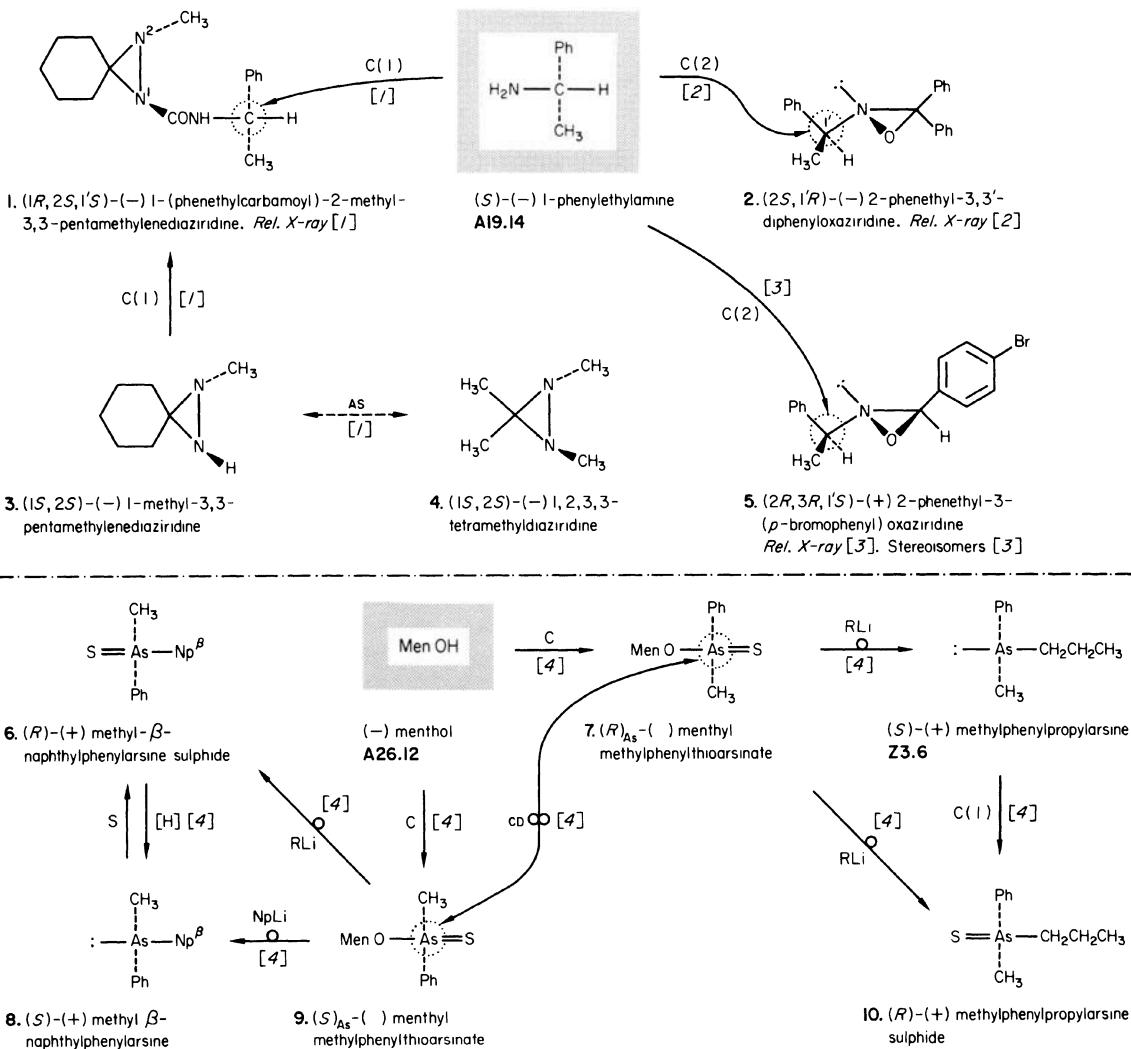
#### *Arrangement*

- (1) Chirality at Si—page Z1'
- (2) Chirality at N—page Z2'
- (3) Chirality at P—page Z3'–Z4'
- (4) Chirality at As—page Z2'
- (5) Chirality at S—page Z5'–Z9'
- (6) Chirality at Fe—page Z1'

## Chirality at Si

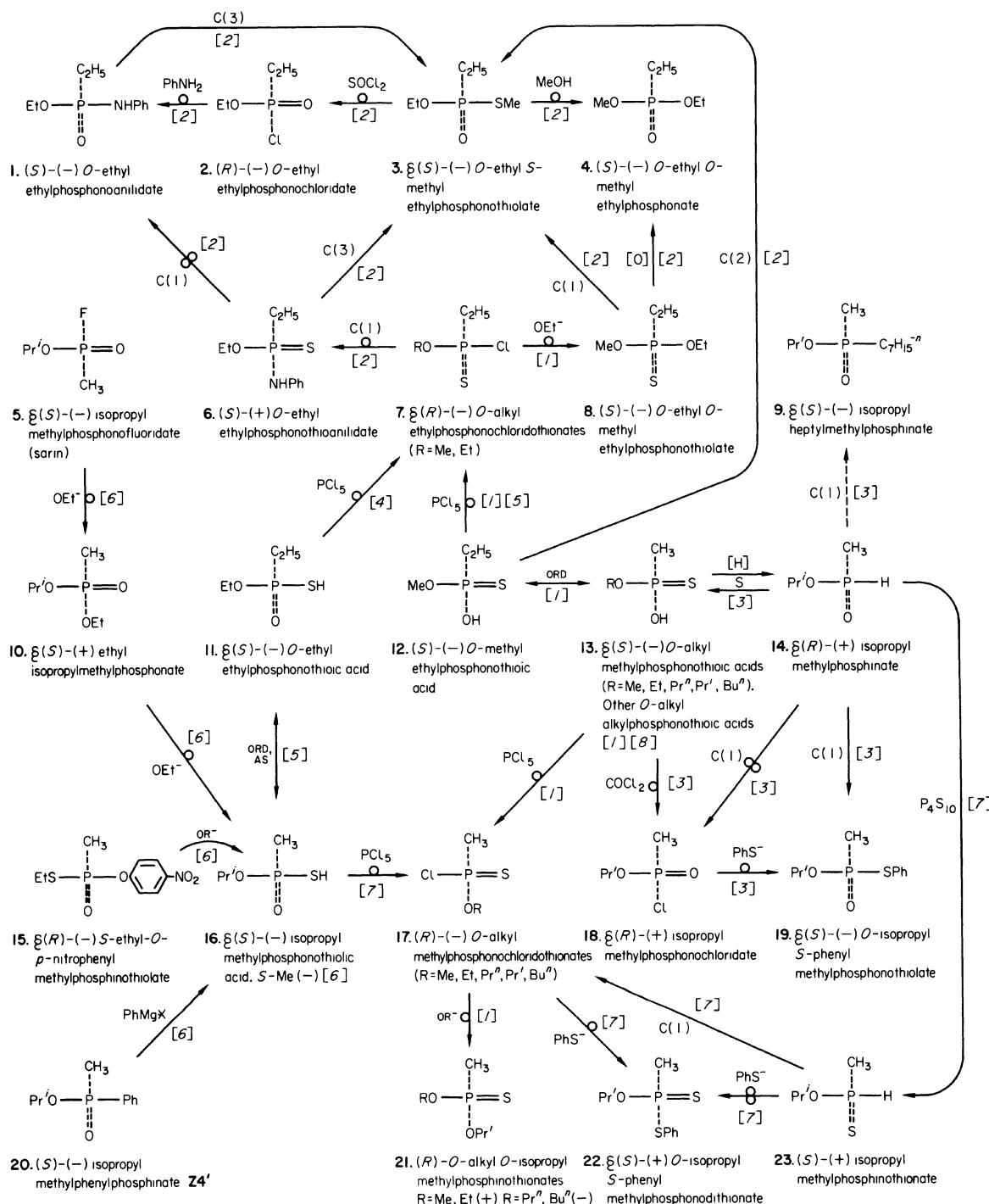


- S. C. Nyburg, A. G. Brook, J. D. Pascoe and J. T. Szymanski, *Acta Cryst.* 1972, **B28**, 1785, and refs. therein.
- See p. Z1.
- L. H. Sommer and J. McLick, *J. Amer. Chem. Soc.*, 1967, **89**, 5806.
- G. Cerveau, E. Colomer, R. Corriu and W. E. Douglas, *Chem. Comm.*, 1975, 410.
- K. Stanley and M. C. Baird, *J. Amer. Chem. Soc.*, 1975, **97**, 6598.
- A. Davison and N. Martinez, *J. Organometal. Chem.*, 1974, **74**, C17; H. Alt, M. Heberhold, C. G. Kreiter and H. Strack, *ibid.*, 353.
- R. Corriu, C. Guerin and J. Masse, *Chem. Comm.*, 1975, 75.
- A. Holt and M. J. Smith, *J. Chem. Soc., Perkin II*, 1976, 952.
- R. Corriu and G. Lanneau, *Bull. Soc. chim. France*, 1973, 3102, and refs. therein.
- J. A. Kanders and A. M. van Veen, *Cryst. Struct. Commun.*, 1973, **2**, 261.
- J. P. Vidal and J. Falgueirettes, *Acta Cryst.*, 1973, **B29**, 2833.

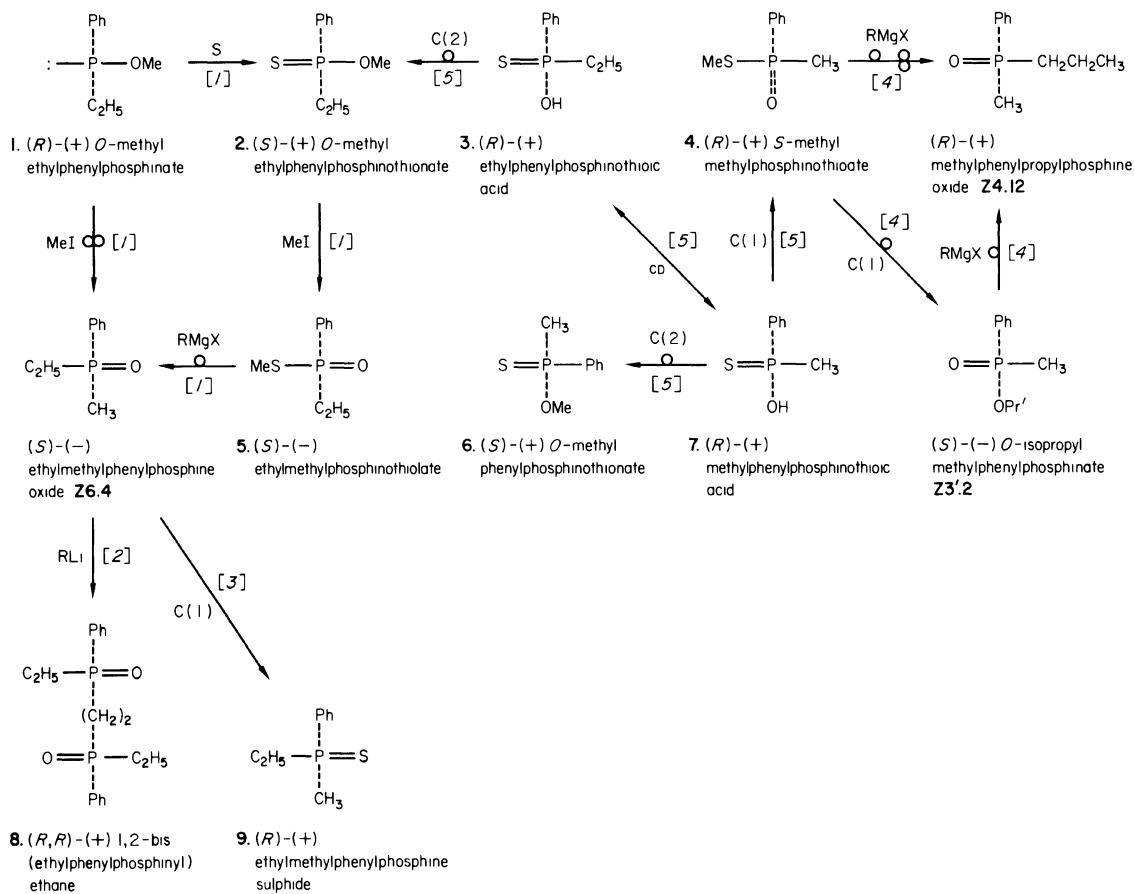


- R. G. Kostyanovsky, A. E. Polyakov and G. V. Shustov, *Tetrahedron Letters*, 1976, 2059; O. A. Dyachenko, L. O. Atovmyan, S. M. Aldoshin, A. E. Polyakov and R. G. Kostyanovsky, *Chem. Comm.*, 1976, 50.
- M. Buccarelli, I. Moretti, G. Torre, G. D. Andreotti, G. Bocelli and P. Sgarabotto, *Chem. Comm.*, 1976, 60.
- M. Bogucka-Ledochowska, A. Konitz, A. Hempel, Z. Dauter, E. Borowski, C. Belzecki and D. Mostowicz, *Tetrahedron Letters*, 1976, 1025.
- J. Stackhouse, R. J. Cook and K. Mislow, *J. Amer. Chem. Soc.*, 1973, 95, 953.

## Chirality at P



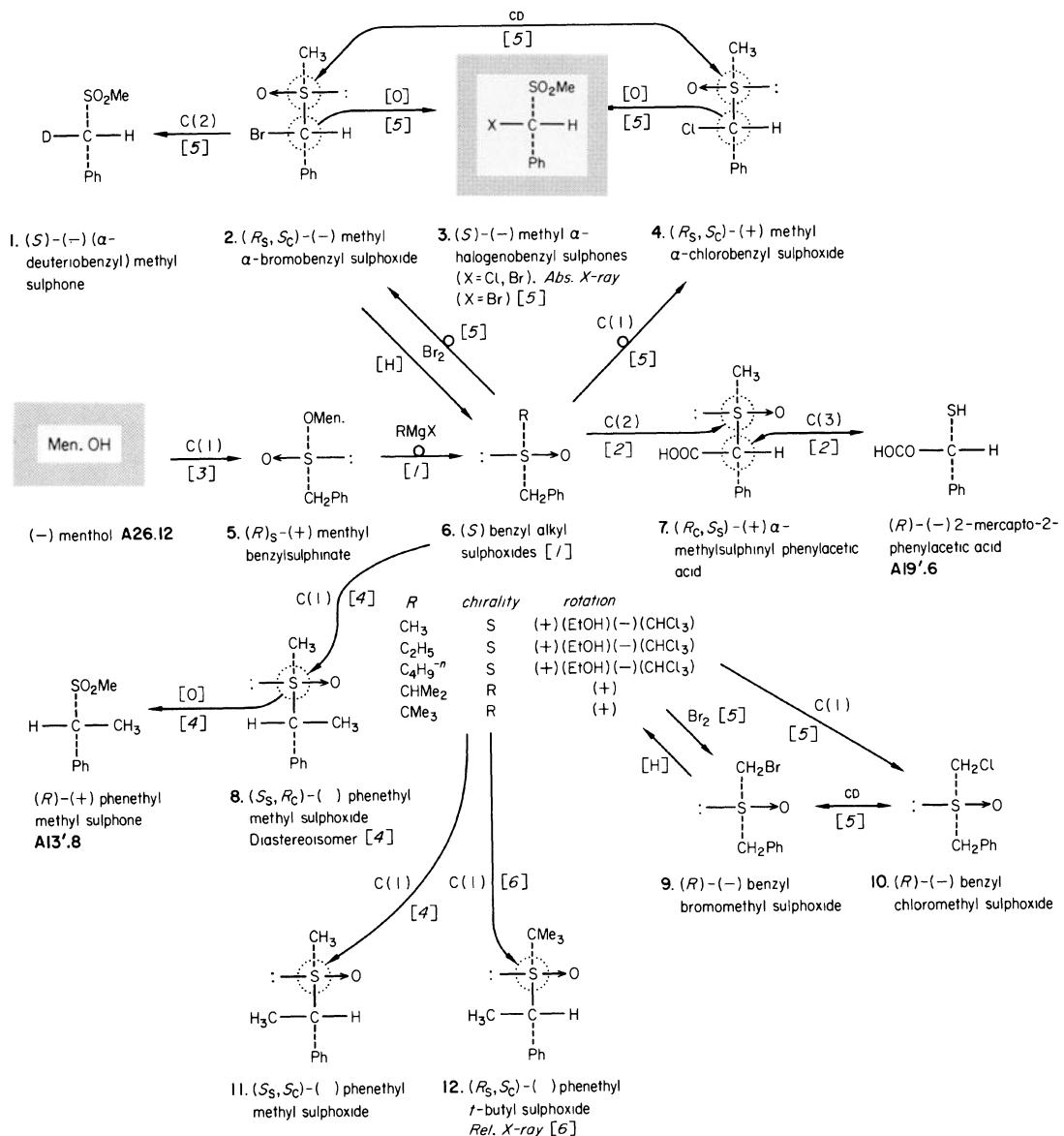
- M. Mikolajczyk, J. Omelanczuk and M. Para, *Tetrahedron*, 1972, **28**, 3855.
- W. J. Stec, A. Okruszek, K. Lesiak, B. Uznanski and J. Michalski, *J. Org. Chem.*, 1976, **41**, 227; W. J. Stec, A. Okruszek and J. Michalski, *ibid.* 233.
- L. P. Reiff and H. S. Aaron, *J. Amer. Chem. Soc.*, 1970, **92**, 5275.
- J. Michalski and M. Mikolajczyk, *Tetrahedron*, 1966, **22**, 3055.
- M. Mikolajczyk and M. Para, *Chem. Comm.*, 1969, 1192.
- H. P. Benschop, G. R. Van den Berg and H. L. Boter, *Rec. Trav. Chim.*, 1968, **87**, 387.
- L. J. Szafraniec, L. P. Reiff and H. S. Aaron, *J. Amer. Chem. Soc.*, 1970, **92**, 6391.
- M. Mikolajczyk, M. Para, J. Omelanczuk, M. Kajtar and G. Snatzke, *Tetrahedron*, 1974, **28**, 4357.



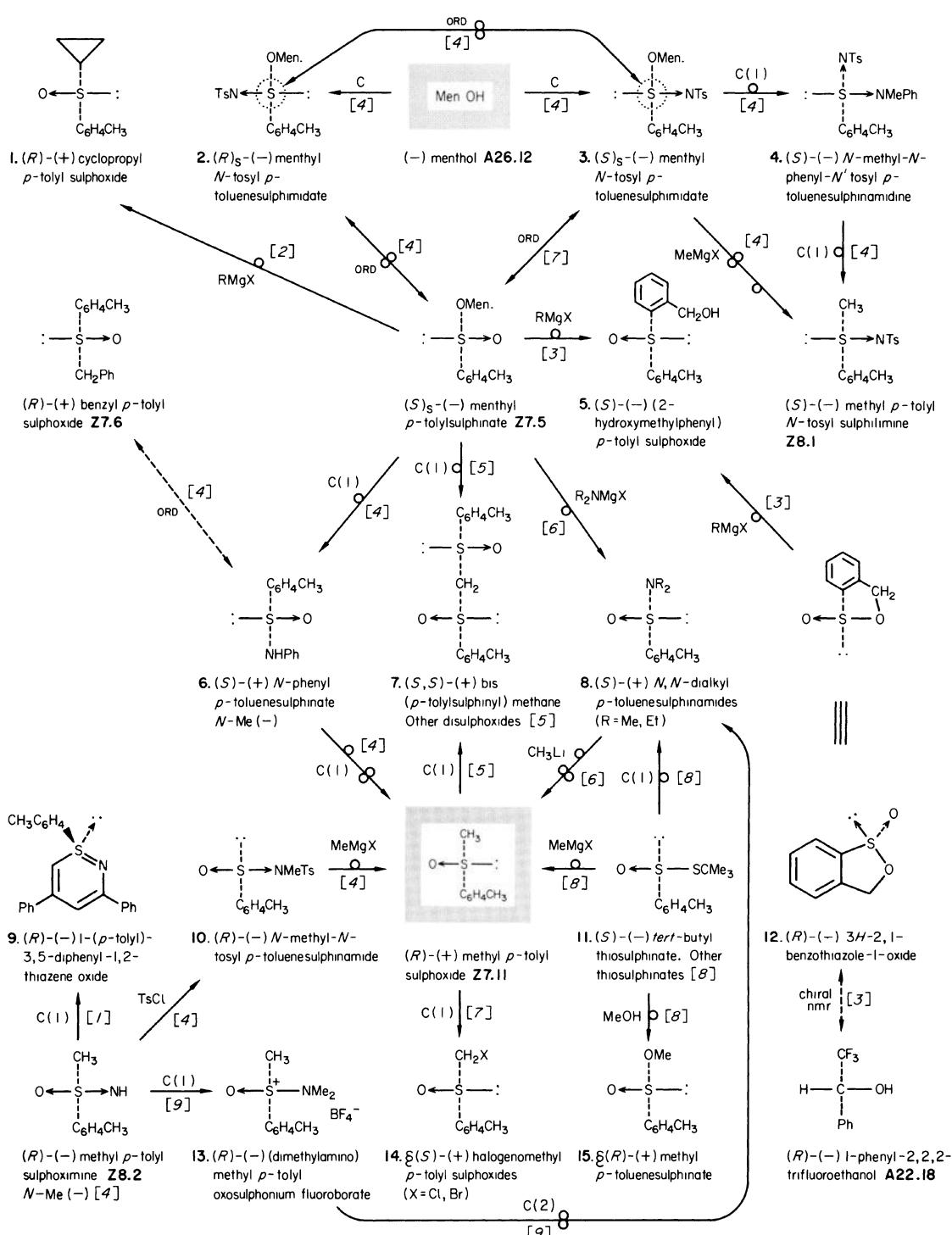
See [5] for details of assignment of ACs to several additional organophosphorus compounds based on reinterpretation of earlier work.

- M. Mikolajczyk, J. Drabowicz, J. Omelanczuk and E. Fluck, *Chem. Comm.*, 1975, 382.
- C. A. Maryanoff, B. E. Maryanoff, R. Tang and K. Mislow, *J. Amer. Chem. Soc.*, 1973, **95**, 5839.
- B. E. Maryanoff, R. Tang and K. Mislow, *Chem. Comm.*, 1973, 273.
- H. P. Benschop, G. R. van den Berg and H. L. Boter, *Rec. Trav. Chim.*, 1968, **87**, 387.
- M. Mikolajczyk, M. Para, J. Omelanczuk, M. Kajtar and G. Snatzke, *Tetrahedron*, 1974, **28**, 4357.

## Chirality at S

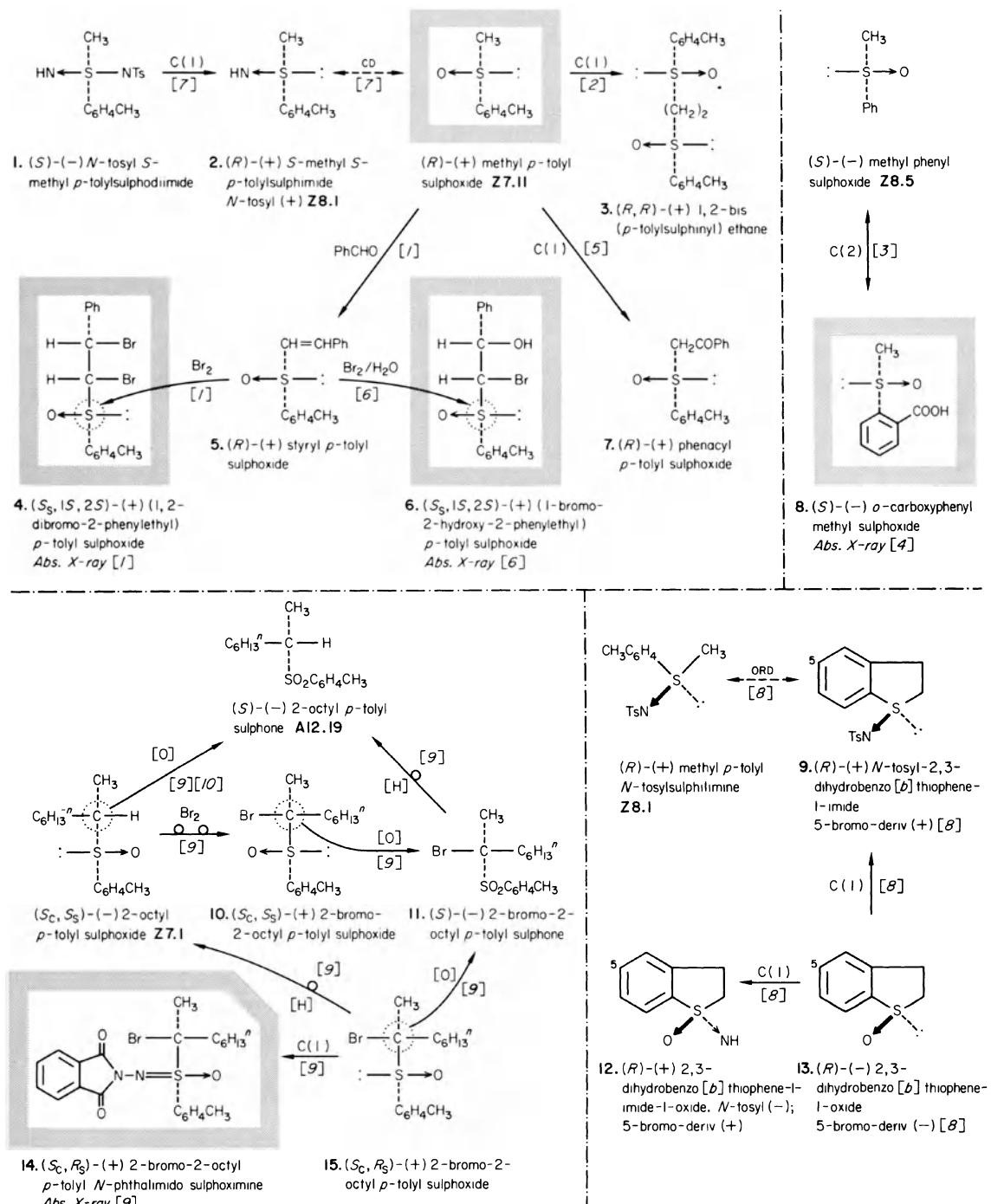


- K. Mislow, M. M. Green and M. Raban, *J. Amer. Chem. Soc.*, 1965, **87**, 2761.
- K. Nishihata and M. Nishio, *Tetrahedron Letters*, 1976, 1695.
- M. Axelrod, P. Bickart, J. Jacobus, M. M. Green and K. Mislow, *J. Amer. Chem. Soc.*, 1968, **90**, 4835.
- K. Nishihata and M. Nishio, *Chem. Comm.*, 1971, 958.
- M. Cinquini, S. Colonna and F. Montanari, *J. Chem. Soc., Perkin I*, 1974, 1719.
- Y. Iitaka, Y. Kodama, K. Nishihata and M. Nishio, *Chem. Comm.*, 1974, 389.

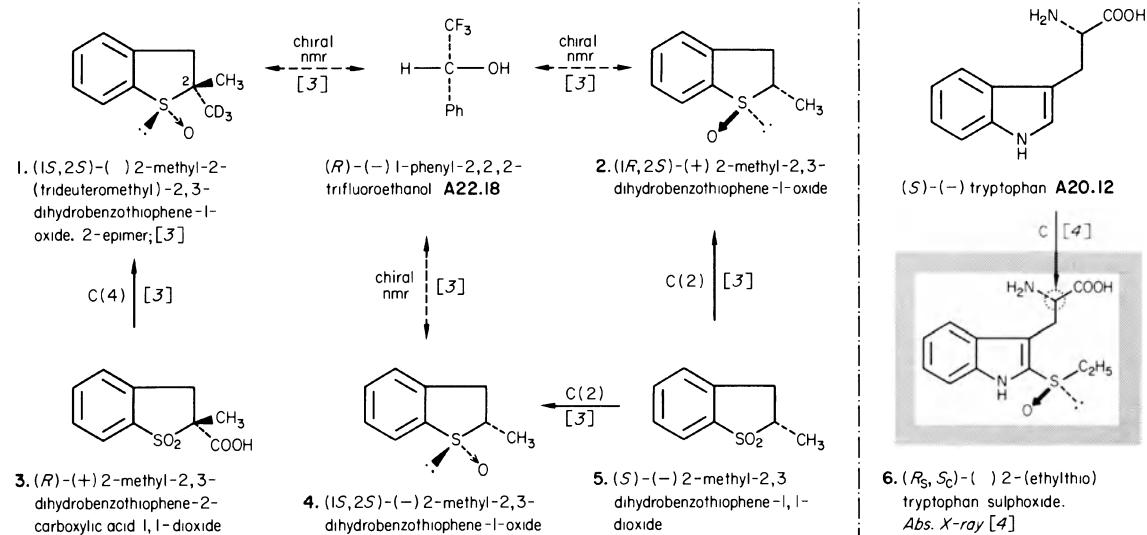


- T. R. Williams and D. J. Cram, *J. Org. Chem.*, 1973, **38**, 20.
- C. R. Johnson and E. R. Janiga, *J. Amer. Chem. Soc.*, 1973, **95**, 7692.
- W. H. Pirkle and M. S. Hoekstra, *J. Amer. Chem. Soc.*, 1976, **98**, 1832.
- T. R. Williams, A. Nudelman, R. E. Booms and D. J. Cram, *J. Amer. Chem. Soc.*, 1972, **94**, 4684.
- N. Kuneida, J. Nokami and M. Kinoshita, *Bull. Chem. Soc. Japan*, 1976, **49**, 256.
- S. Colonna, R. Giovini and F. Montanari, *Chem. Comm.*, 1968, 865.
- M. Cinquini, S. Colonna, R. Fornasier and F. Montanari, *J. Chem. Soc., Perkin I*, 1972, 1886.
- M. Mikolajczyk and J. Drabowicz, *Chem. Comm.*, 1976, 220.
- C. R. Johnson and C. W. Schroeck, *J. Amer. Chem. Soc.*, 1973, **95**, 7418.

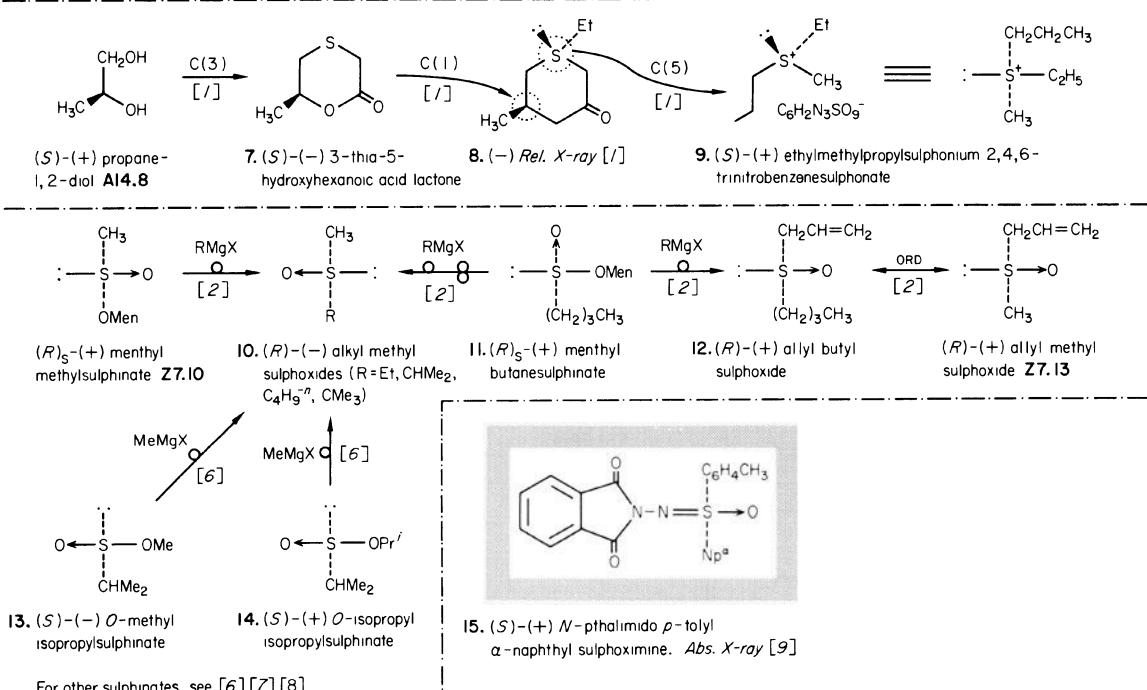
## Chirality at S



1. F. Iwasaki, S. Mitamura, and G. Tsuchihashi, *Bull. Chem. Soc. Japan*, 1975, **48**, 944.
2. C. A. Maryanoff, B. E. Maryanoff, R. Tang and K. Mislow, *J. Amer. Chem. Soc.*, 1973, **95**, 5839.
3. G. Barbieri, V. Davoli, I. Moretti, F. Montanari and G. Torre, *J. Chem. Soc. (C)*, 1969, 731.
4. B. Dahlen, *Acta Cryst.*, 1974, **B30**, 642.
5. N. Kuneida, J. Nokami and M. Kinoshita, *Chem. Letters*, 1974, 369.
6. F. Iwasaki, S. Mitamura and G. Tsuchihashi, *Bull. Chem. Soc. Japan*, 1976, **49**, 1676.
7. B. W. Christensen and A. Kjaer, *Chem. Comm.*, 1975, 784.
8. F. G. Yamagishi, D. R. Rayner, E. T. Zwicker and D. J. Cram, *J. Amer. Chem. Soc.*, 1973, **95**, 1916.
9. P. Calzavara, M. Cinquini, S. Colonna, R. Fornasier and F. Montanari, *J. Amer. Chem. Soc.*, 1973, **95**, 7431.
10. See p. Z7.

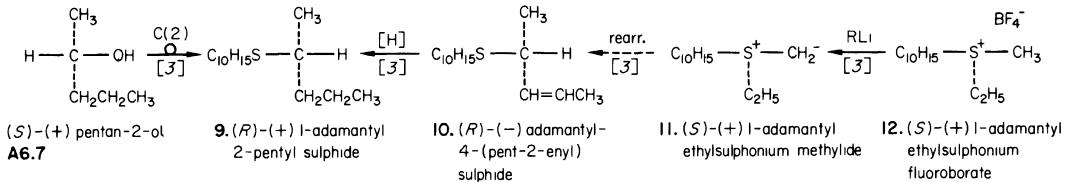
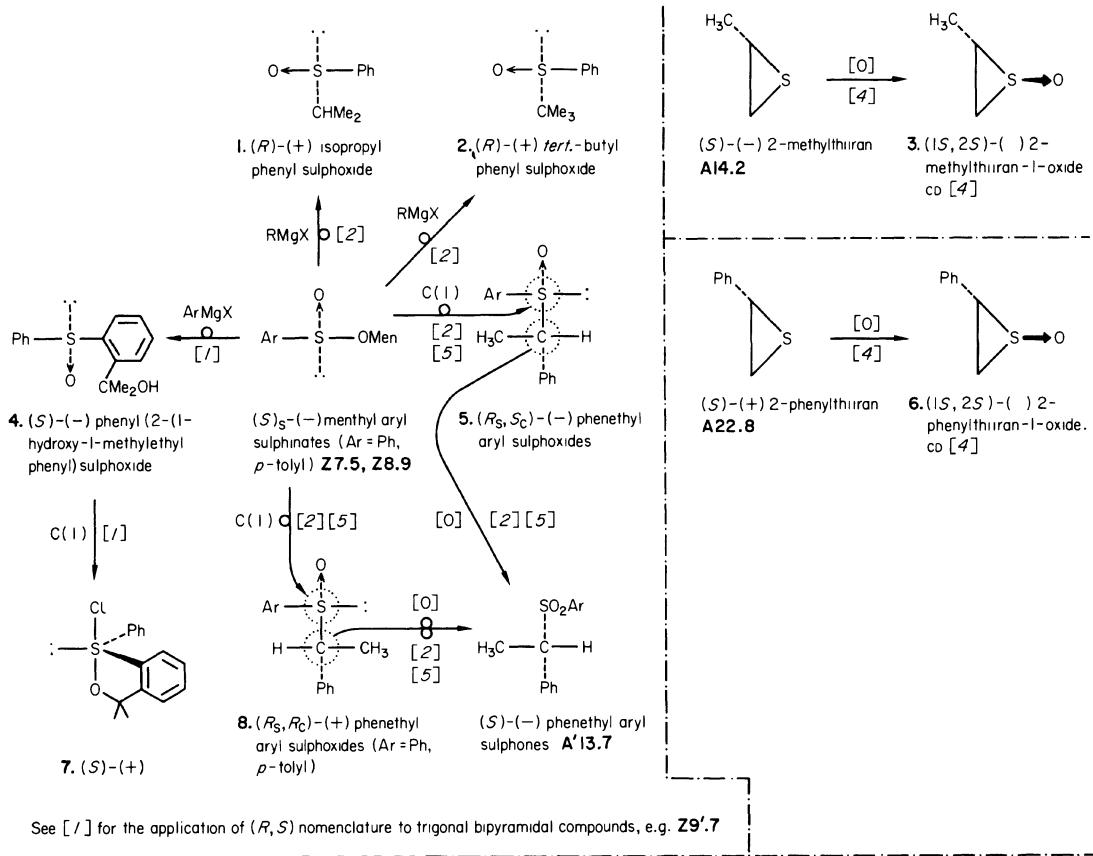


See [4] [5] for ORD comparison of Z8'-6 with naturally occurring sulphoxides (amatoxins) which are cyclic polypeptide sulphoxides containing the 2-(alkylthio) tryptophan sulphoxide chromophore.



For other sulphinates, see [6] [7] [8]

- E. Kelstrup, A. Kjaer, S. Abrahamsson and B. Dahlen, *Chem. Comm.*, 1975, 629.
- M. Axelrod, P. Bickart, M. L. Goldstein, M. M. Green, A. Kjaer and K. Mislow, *Tetrahedron Letters*, 1968, 3249.
- T. A. Whitney and W. H. Pirkle, *Tetrahedron Letters*, 1974, 2299.
- T. Wieland, M. P. J. de Urries, H. Indest and H. Faulstich, *Annalen*, 1974, 1570.
- A. Baku, R. Altmann and T. Wieland, *Annalen*, 1974, 1580.
- M. Mikolajczyk and J. Drabowicz, *Tetrahedron Letters*, 1972, 2379.
- M. Mikolajczyk and J. Drabowicz, *Chem. Comm.*, 1974, 547.
- W. H. Pirkle and M. S. Hoekstra, *J. Amer. Chem. Soc.*, 1976, 98, 1832.
- G. D. Andreotti, G. Bocelli, L. Coghi and P. Sgarabotto, *Cryst. Struct. Comm.*, 1975, 4, 393.



1. T. M. Balthazor and J. C. Martin, *J. Amer. Chem. Soc.*, 1975, **97**, 5634.
2. G. Modena, U. Quintily and G. Scorrano, *J. Amer. Chem. Soc.*, 1972, **94**, 202.
3. B. M. Trost and R. F. Hamm, *J. Amer. Chem. Soc.*, 1973, **95**, 962.
4. I. Moretti, G. Torre and G. Gottarelli, *Tetrahedron Letters*, 1976, 711.
5. M. Nishio and K. Nishihata, *Chem. Comm.*, 1970, 1485; *J. Chem. Soc., Perkin II*, 1973, 758.

AUTHOR,  
SUBJECT AND FORMULAE  
INDEXES

# Author Index

- 
- Aaron, H.S., Z3'  
Aasen, A.J., K22, T10', T12'  
des Abbayes, H., A40'  
Abe, J., Y17, Y25  
Abe, K., Y6'  
Abe, M., K17  
Abel, H., T39  
Abeles, R.H., D1  
Aberhart, D.J., D2'  
Abraham, A., T48  
Abraham, D.J., Y12'  
Abrahamsson, S., Y8', Z8'  
Aburaki, S., Y15'  
Achari, B., T45  
Achenbach, H., Y3', Y4'  
Acheson, G.G., T2  
Achiwa, K., A40, A13', A32'  
van Acker, L., A6'  
Ackerman, D., A20  
Ackermann, P., A7', X11'  
Acklin, W., K17, A38'  
Adam, G., T49, K34  
Adam, W., A12'  
Adams, D.R., T10'  
Adams, K.A.S., K25  
Adams, M.B., T18  
Adams, R., A34, K22  
Adeoye, S.A., T52  
Adesogan, E.K., T52  
Adinolfi, M., T37  
Adler, E., K3  
Adlersberg, M., A26  
Adolf, W., T39  
Afonso, A., T32  
Afzali, A., K3  
Ageta, H., T43, T44, T45  
Agosta, W.C., X3  
Agwada, V., K3'  
Ahmann, G., K20  
Ahmed, F.R., A4, A18, T47, K4, K25,  
    A18'  
Ahond, A., K4'  
Aimi, N., K34, K4'  
Aiyar, V.N., Y7, Y8  
Ajello, T., T14'  
Akeda, K.T., T25  
Akhtar, M., D2, A7'  
Akimoto, H., X6  
Akisanya, A., T52  
Akiyama, T., T45, T15', K5'  
Alam, S.N., K25  
Albers-Schönberg, G., T16  
Albonico, S.M., K3  
d'Albuquerque, I.D., T45, Y3  
Alderton, G., A8  
Aldoshin, S.M., Z1'  
Aldridge, D.C., A36, K24, Y27  
Ali, E., Y7'  
Allan, R.D., Y1'  
Alleaume, M., Y11, Y6'  
Allen, F.H., T11, T44, K2, T15'  
Allen, L.E., A56, A27'  
Allinger, J., A51, A56  
Allinger, N.I., A24'  
Allison, A.J., T34  
Almy, J., A49  
Al-Shamma, A.A., T37  
Altenkirk, B., K26  
Althouse, V.E., D1'  
Altmann, R., Z8'  
Alves, H.M., Y3  
Amai, R.L.S., K11  
Ambady, G., K9  
Amenechi, P.I., Y3  
Ament, S.S., A18  
Ames, T.R., T43  
Amiard, G., T48  
Amirthaligam, V., T29  
Andersen, K.H., Z8  
Andersen, K.K., D3'  
Andersen, N.H., T16, T19, T29, A24',  
    T2'  
Anderson, A.B., A16, T37  
Anderson, B.F., T34, K4'  
Anderson, D.G., Z1, Z2  
Anderson, G.D., T7', T9'  
Anderson, H.W., X1, X1'  
Anderson, P.H., D1'  
Anderson, R.C., Y2'  
Ando, K., Y4'  
Ando, M., T22  
Andreetti, G.D., Z2', Z8'  
Andrewes, A.G., T18'  
Andrews, S.L., Y29  
Andrianov, V.G., K4'  
Anet, F.A.I., K12, K25  
Angiolini, L., A20', A30'  
Angres, I., A13'  
Angyal, S.J., A16  
Anisuzzaman, A.K.M., A14  
Annen, K., T48  
Annunziata, R., D3'  
Ansari, H.R., A20'  
Anteunis, M., A6'  
Anthonsen, T., T37  
Antkowiak, W., T32  
Antosz, F.J., Y30, Y14'  
Anzai, K., C1'  
Aoe, K., A25'  
Aono, K., K6  
Aota, K., T19, T24, T27, T7'  
Aoyagi, R., T16'  
Aoyagi, T., A10', A22'  
Apgar, P.A., A33'  
Aplin, R.T., T53  
Appel, H.H., T14, T32  
Applequist, D.E., A18, A37  
Appleton, R.A., T37  
Applewhite, T.H., A7  
ApSimon, J.W., T32  
Aragao Craveiro, A., Y3'  
Arai, M., A27'  
Arakawa, H., A3, A25, T21, Y2, Y6  
Aratani, T., A44, X2  
Arcamone, F., Y28  
Archer, J.F., A10  
Archer, S., K28  
Arene, E.O., T52  
Argondelis, A.D., Y21  
Arigoni, D., A33, A39, A53, T1, T2,  
    T13, T19, T21, T32, T34, T42,  
    T44, T45, T46, T51, T52, T57,  
    K17, K36, D1, K9'  
Arita, M., T13'  
Armarego, W.L.F., A37  
Armstrong, J.J., K24, Y27  
Armstrong, M.D., A20  
Arnott, S., T52  
Arojan, A.A., K18  
Arold, H., A27, A33  
Arora, S.K., Y1, K1'  
Arpin, N., T18'  
Arthur, H.R., T43  
Asada, Y., T23  
Asahi, K., C1'  
Asai, M., Y28  
Asano, H., A27, A30  
Asao, T., T20, T22  
Aschan, O., T12  
Aschwanden, W., A10'  
Asher, J.D.M., T22  
Ashida, T., A32, K4, Z1  
Atherton, E., A6'  
Atkins, T.J., A33'  
Atovmyan, L.O., Z2'  
Audisio, G., X10  
Auer, E., A38  
Auernheimer, A.H., A13  
Austen, D.J., Y19

## Author Index

---

- Autrey, R.L., K9  
 Avey, H.P., K4'  
 Avitabile, G., Y26  
 Ax, H.A., A31'  
 Axelrod, M., Z7, Z8, Z5', Z8'  
 Ayer, W.A., K25, K26, K32, T7',  
     T12', T13', K7'  
 Aylett, B.J., Z1  
 Azadian-Boulanger, G., A25'  
 Azuma, K., K5
- Bach, N.J., K17  
 Bach, R.D., A51, A55, X2, A6'  
 Bachelor, F.W., A24  
 Baczynskyj, L., Y12'  
 Badawi, M.M., K6'  
 Badger, G.M., X6  
 Badin, E.J., A27  
 Baer, E., A11, A14, A15, A11'  
 von Baeyer, A., T6  
 Baggolini, E.G., T11, A9'  
 Bagli, J.F., Y8'  
 Bailey, A.S., K12  
 Baird, M.C., Z1'  
 Baker, B.R., K10'  
 Baker, C.D., A7  
 Baker, C.G., A8, A4'  
 Baker, K.W., A10'  
 Bakhaeva, G.P., Y16  
 Baku, A., Z8'  
 Baldwin, J.E., T58, D3'  
 Balenovic, K., A19, A31, A14'  
 Balieu, E., A12'  
 Balkenhol, W.G., T39  
 Ball, J.H., T12'  
 Ballio, A., Y2  
 Balmain, A., T40  
 Balthazor, T.M., Z9'  
 Balzer, W.D., Z3, Z4  
 Ban, I., A47, X5'  
 Ban, Y., A36, K9, K10  
 Bang, L., T29  
 Banks, A.J., Y10  
 Banks, R.B., A14', X1'  
 Banno, K., A16'  
 Banthorpe, D.V., T7, T8, T9  
 Barash, L., A54, A23', A27'  
 Barbier, M., T7'  
 Barbieri, G., Z7'  
 Barcellona, S., Y2  
 Barclay, G.A., T51  
 Barcza, S., A28  
 Barieux, J., A24'  
 Barker, A.C., K1  
 Barkley, L.B., A53  
 Barneis, Z.J., K4  
 Barnes, C.S., T46  
 Barnes, R.A., A48  
 Barnes, W.H., K4, K21  
 Barrett, G.C., Y13  
 Barringer, D.F., K10'  
 Barrow, F., A4  
 Barrow, K.D., T41  
 Barrow, M.J., K20  
 Barry, J., A43, A49  
 Bartlett, L., A6, T55, K10  
 Bartlett, M.F., K11
- Barton, D.H.R., A45, T20, T21, T28,  
     T41, T42, T44, T46, T50, T51,  
     T52, T58, K3, K4, K6, K7, Y14,  
     Y16, A11'  
 Bartsch, H., T39  
 Bartuska, V., A16  
 Bartz, Q.R., A4, A9  
 Bastani, B., A2  
 Bates, G.S., Y14'  
 Bates, H.A., Y12'  
 Bates, R.B., T10, T14, T19, Y1, T5',  
     T8', K1', K8'  
 Battail-Robert, D., A25  
 Battelle, L.F., A14', X9'  
 Battersby, A.R., A45, T13, K1, K2,  
     K3, K4, K11, Y7, D1'  
 Battistini, C., A15'  
 Bau, R., A14', X9'  
 Bauer, K., X9  
 Baughn, C., A8  
 Baum, M.E., A46  
 Baumann, G., Y17  
 Baumann, P., T48, A34'  
 Beak, P., K11  
 Beal, J.K., T37  
 Beal, J.L., K3  
 Bear, C.A., T11, Y13  
 Beard, C., A38, A21', A24'  
 Bearder, J.R., T11'  
 Beaton, J.M., T42, T43  
 Beaucaire, V.D., A24'  
 Becher, D., Y19  
 Beck, J.R., A18'  
 Beckett, A.H., A4, A5, A18, A31, K9  
 Beecham, A.F., K10, K26, K29, Y24,  
     Y3'  
 Begley, M.J., Y1, Y15, T15', Y10'  
 Behforouz, M., K2'  
 Behr, D., A11', K9'  
 Bekoe, D.A., T52  
 Bekurdt, J., A45  
 Bell, E.A., A5  
 Bell, M.R., K28, Y29  
 Bellardini, L., T34  
 Belleau, B., X7  
 Bellido, I.S., A21'  
 Bellucci, G., A1', A5'  
 Belovsky, O., A14'  
 Belzecki, C., Z2'  
 Bencze, W., Y1  
 Bencze, W.L., A52  
 Benedetti, E., A15'  
 Benedict, R.G., A10  
 Benito, M.G., A21'  
 Benjamin, B.M., A47, A8'  
 Benn, M.H., A12', K9'  
 Bennett, M.J., K7'  
 Benoiton, L., A7'  
 Benschop, H.P., Z4, Z3', Z4'  
 Bentley, H.R., K12  
 Bentley, K.W., K4  
 Bentley, R.K., Y15  
 Berenger, G., K36  
 Berg, C.P., A20  
 Berg, J-E., T10'  
 van den Berg, G.R. Z3', Z4'  
 Bergel, F., A19  
 Berger, J.G., A46
- Bergmann, R.G., A44, A2'  
 Bergmann, W., T48  
 Bergström, S., T48, Y8'  
 Berkelhammer, G., K10'  
 Berlin, Yu.A., Y16, Y27  
 Bernasconi, R., T51  
 Bernauer, K., K3, K10'  
 Berner, E., A31  
 Berner, H., K36  
 Berner-Fenz, L., K36  
 Bernhard, H.O., K10'  
 Bernhard, K., T55  
 Bernotat-Wulf, H., Y1  
 Bernstein, J., A20  
 Berova, N.D., A43  
 Berson, J.A., A46, A47, T10, T11,  
     K27, X6, A24', A31', D2'  
 Berthelot, M., T11  
 Berti, G., A22, A23, A52, A1'  
 Bertrand, J.A., Y1, Y22  
 Bertrand, M., A3', A31', X1'  
 Besch, E., A37'  
 Besl, H., Y10'  
 Bestmann, H.J., X1, Z5, X1', X6'  
 Bethell, M., A17  
 Bettolo, G.B.M., T45, Y3  
 Bettoni, C., A1'  
 Beugelmans, R., K3'  
 Bevan, C.W.L., T52, K14  
 Bevan, K., A11  
 Beyerman, H.C., A10, K18  
 Bhakuni, D.S., K3, K4  
 Bhalla, V.K., A36'  
 Bhat, H.B., Y9  
 Bhat, S.V., T3'  
 Bhatnagar, S.P., T10'  
 Bhattacharrya, S.C., T19, T20, T21,  
     T23
- Bianchi, E., K34  
 Bianchi, R.J., A13'  
 Bianco, A., A25'  
 Bible, R.H., T33  
 Bick, I.R.C., K3, K4'  
 Bickart, P., Z7, Z8, Z5', Z8'  
 Biemann, K., K12, K13, K34, T1'  
 Bienert, M., K6  
 Biernbaum, M.S., A13'  
 Bijvoet, J.M., A2, A27  
 Binder, M., Y12'  
 Binder, R.G., A7  
 Binks, R., K2  
 Birch, A.J., T1, T2, T3, T10, T11,  
     T51, Y3, Y6, Y7, Y8
- Bird, P.H., K14  
 Birkenmeyer, R.D., Y21  
 Birkinshaw, J.H., Y6  
 Birnbaum, G.I., K33, Y15'  
 Birnbaum, K.B., K33  
 Birnbaum, S.M., A7'  
 Bisarya, S.C., T12  
 Biscarini, P., A20'  
 Bius, D.L., A8'  
 Bjamer, K., T36, T40  
 Black, K.T., A13'  
 Blackburn, E.V., A27  
 Blackburne, I.V., T1', T3'  
 Blackmond, B., A18'  
 Blackstock, W.P., K2

## Author Index

---

- Blackwell, J.T., A17', A28'  
 Blackwood, R.K., Y28  
 Bladon, P., K29  
 Blaha, K., A22, K11, K15, K16, K18, K19, K20, X10'  
 Blanchard, E.P., T10  
 Blank, F., Y2  
 Blank, G.E., Y11'  
 Blazevic, N., A1'  
 Bloch, K., A7  
 Bloch, M., D3'  
 Bloch, P., Y12'  
 Blomqvist, L., K5'  
 Bloomer, J.L., A12'  
 Blossey, E.C., K13  
 Blount, J.F., T2, K1, K2, Y11, A18', A31', T7', T13', K2', K6', Y6', Y12'  
 Blumann, A., T5  
 Boar, R.B., T42  
 Bobeszko, B., K7'  
 Boccelli, G., Z2', Z8'  
 Bockman, O.C., T21  
 Boekelheide, V., K7  
 Boelens, H., T9  
 Boer, A.G., T1  
 de Boer, J.L., X3'  
 Bogdanovic, B., A32'  
 Bognar, R., K4, A9'  
 Bogri, T., K29  
 Bogucka-Ledowchowska, M., Z2'  
 Bohlmann, F., K21, A11'  
 Böhm, H., X5  
 Bohme, R., Z5  
 Böhner, B., Y2'  
 Boime, A., T9  
 Boll, P.M., A12'  
 Bollinger, H., Y20  
 Bollinger, P., T31  
 Bombardelli, E., K3'  
 van Bommel, A.J., A2  
 Bonati, A., K3'  
 Bond, F.T., T50  
 Bond, R.P.M., T32  
 Bondinell, W.E., A26  
 Bonner, W.A., Y1, A19'  
 Bonnett, R., Y24  
 Bonsma, G.F., K7  
 Booms, R.E., Z6'  
 Borch, G., T17', T18'  
 Borchardt, J.K., A44, X11'  
 Borden, W.T., A5'  
 Bordner, J., T47, Y12'  
 Borkowsky, F., K4  
 Borowski, E., Z2'  
 Borthwick, A.D., Y17  
 van den Bosch, S., A10  
 Bose, A.K., T4, T32, T34  
 Bosnjak, J., A3'  
 Bosshard, H., T42  
 Boter, H.L., Z3', Z4'  
 Both, W., X6'  
 Bottari, F., A22, A23  
 Botteghi, G., A3', A15', A16', A35'  
 Boucherot, D., A19'  
 Bourne, P.M., A37, A53  
 Bowden, R., Y17  
 Bowie, J.C., Y10  
 Bowman, E.R., K20  
 Bowman, R.M., K31, K10'  
 Boyce, C.B., K27  
 Boyd, D.R., A10, A25, A7'  
 Brack, A., K17  
 Bradfield, A.E., T20  
 Bradway, D., A11'  
 Braekman, J.C., K11, T8', T10', K7'  
 Brandange, S., A11', A29'  
 Brandl, F., T39  
 Brandt, C.W., T34, T36  
 Branfman, A.R., Y11'  
 Brannon, D.R., T19  
 Brasen, W.R., A20'  
 Bratek, M.D., K21  
 Brauchli, E., A5  
 Braun, F., K16  
 von Braun, J., A27, T1, T46  
 Brauns, F., A2  
 Braunschweiger, H., A20, Y6  
 Brechbuhler, S., Y13  
 Bredenberg, J.B., T33  
 Bredt, J., T12  
 Breen, G.J.W., T46  
 Bregant, N., A31  
 Brehm, L., T37  
 Breitbeil, F.W., D1'  
 Breitmaier, E., A18'  
 Bremner, J.B., K4'  
 Brenner, J., A48  
 Breuer, S.W., A45, K2  
 Breuker, J.H., A10  
 Brewster, J.H., A21, A25, A50, A51, X4, X2'  
 Brewster, P., A1  
 Brickner, W., T11  
 Brienne, M.J., A41, A42, X5'  
 Brier, C.G., A27'  
 Brieskorn, C.H., T33  
 Briggs, L.H., T13, T35, T49  
 Bright, A., T14  
 Briner, R.C., K27  
 Bringi, N.V., K8, K9, K11  
 Britten, J.S., D2  
 Britton, R.W., T28, Y10'  
 Britton, W.E., A6  
 Broaddus, C.D., T2, T10'  
 Broadhurst, M.D., A8'  
 Brockmann, H., A31, Y23, Y28, A11'  
 Broeke, J.T., A40  
 de Broissia, H., T5'  
 Brook, A.G., Z1, Z2, Z1'  
 Brookes, D., Y2'  
 Brookes, L.G., A5  
 Brooks, C.J.W., T23, T46, T47, T49  
 Brooks, J.S., A12, Y12  
 Broquist, H.P., K5'  
 Brossi, A., K1, K2, K3, A10', K2', K6'  
 Brossmer, R., A11  
 Brown, A., X6'  
 Brown, A.G., Y29  
 Brown, B.D., A11'  
 Brown, G., K26  
 Brown, G.B., A4  
 Brown, H.C., A27, T8, T9, A30', D2'  
 Brown, K.S., K13, K36, Y10  
 Brown, P.M., T45  
 Brown, R.H., A28', A37', A40'  
 Brown, R.T., K2, K10, K15, K4'  
 Brown, S.H., K13  
 Brown, T.H., K3  
 Brown, W.A.C., T53, Y17  
 Brown, L.M., K7'  
 Browne, P.A., X6  
 Brownlee, R.G., T8  
 Bruderer, H., T21, T46, T50, T51, T52, T58, K3, K4, K6  
 Brufani, M., T41, Y26, Y13'  
 Brugger, M., A20  
 Brugidou, J., A40'  
 Brummel, R.N., X2, A6'  
 Brunner, R., K17  
 Bruns, K., T36  
 Bryan, R.F., T30, T41, K35, T13', T15', K1', Y10', Y13'  
 Brzechffa, M., X9'  
 Bucciarelli, M., Z2'  
 Buccini, J., Y27  
 Buchan, R., A43  
 Buchanan, C., A2  
 Buchart, O., T39  
 Buechecker, R., T36, T54, T17', T18'  
 Büchi, G., A8, T8, T13, T19, T8', Y12'  
 Buchsacher, P., K4  
 Buck, K.T., K3  
 Buckel, W., D2  
 Buckingham, D.A., A11  
 Bucourt, R., A37'  
 Buddsukh, D., T2'  
 Budhiraja, R.P., T50  
 Budzikiewicz, H., K12, K13, K34  
 Bugg, C.E., A16, C1'  
 Bui, A-M., K4'  
 Bukhari, S.T.K., A3  
 Bull, L.B., K22  
 Bu'Lock, J.D., Y19  
 Bundy, G.L., Y8'  
 Bunn, C.W., Y29  
 Bunnenberg, E., X5  
 Burden, R.S., Y7, T17'  
 Burgstaler, A.W., T32  
 Burian, F., A55  
 Burke, N.I., Y1  
 Burkhardt, F., K2  
 Burkhardt, U., K35  
 Burks, J.E., Y4'  
 Burlingame, A.L., T24  
 Burnell, R.H., K14, K7'  
 Burnett, A.R., T13, K2  
 Burrell, J.W.K., T56  
 Burrows, B.F., A38  
 Burzlaff, H., Z5  
 Bus, J., A31'  
 Busetta, B., Y6'  
 Bush, M.A., A19, X9  
 Buta, J.G., A25, A50  
 Butler, J., A19  
 Butsugan, Y., T13  
 Button, A.C., Y11'  
 Bycroft, B.W., K12, K13, K14, Y14'  
 Bye, E., A18'  
 Bystrov, N.S., Y9'  
 Cadosch, H., T18'  
 Cafieri, E., T14'

## Author Index

---

- Caglioti, L., T45, T57  
 Cahn, R.S., A16, A26, C1, X4  
 Cain, B.F., T13  
 Caine, D., T7', T8'  
 Cais, M., T36  
 Calam, D.H., T52  
 Calame, J.P., K36  
 Calas, B., A56, A15'  
 Calas, M., A15', A30', A36'  
 Calvo, C., K7'  
 Calzavara, P., A6', Z7'  
 Camarada, L., Y2  
 Cambie, R.C., T35  
 Camerman, A., K15, A21'  
 Camerman, N., K15  
 Cameron, A.F., A35, T12, T47, T6',  
     K1', Y4'  
 Cameron, D., Y22  
 Cameron, D.W., Y10  
 de la Camp, U., Z7  
 de la Camp, V., A2  
 de Camp, W.H., A18', K9'  
 Campbell, D.C., Y4'  
 Campbell, E.F., K20  
 Campbell, W.P., T33  
 Campello, J., K13  
 Campiglio, A., A21, A22  
 Cannon, J.R., K28, K6'  
 Cantrall, W.E., T42  
 Canzanelli, A., A5  
 Capillon, J., A19'  
 Caporosso, A.M., A15'  
 Cardillo, G., Y6, Y9  
 Carlini, C., A35'  
 Carlisle, C.H., T46  
 Carlson, A., Y21  
 Carlson, J.A., Y29  
 Carlson, R.G., A37'  
 Carlström, D., A24  
 Carmack, M., A2  
 Carman, R.M., T34, T43, T44  
 Carnmalm, B., A31  
 Carpenter, B.K., D2'  
 Carrazzoni, E.P., K13  
 Carré, F., Z2  
 Carrell, H.L., A25'  
 Carroll, P.J., T29  
 Carroll, F.I., Y21, A17', A28'  
 Carstens, L.L., T13'  
 Carter, H.E., A11  
 Carter, O.L., K8, X9  
 Carter, W.L., A44  
 Casciato, C.A., A30  
 Caserio, F.F., A1  
 Caserio, M.C., X2  
 Casey, J.P., A16', A23'  
 Casey, M., Y8'  
 Casimir, J., A17'  
 Caspi, E., A33  
 Cassady, J.M., T24, T16'  
 Cassinelli, G., Y28  
 Castagnoli, N., K20  
 Castro-Araya, V.H., K9'  
 Casy, A.F., A18, A31  
 Catalfomo, P., T50, A6'  
 Caughlan, C.N., T22, T24, T7'  
 Cava, M.P., T36, K3, K13, K1'  
 Cavalier, R., A18'
- Cavill, G.W.K., T13  
 Ceccarelli, G., A15'  
 Ceder, O., A26  
 Cekovic, Z., A3'  
 Cellai, L., Y13'  
 Celmer, W.D., A32, Y25  
 Centoni, L., A27  
 Cerar, D., A19, A14'  
 Cerny, M., C1  
 Cerrini, S., T41, Y13'  
 Cerveau, G., Z1'  
 Cervinka, O., A11, A25, K23, A9',  
     A14', A36'  
 Cesario, M., A8', K10'  
 Chadha, N.K., A25'  
 Chain, E.B., T41  
 Chakraborty, D.P., T53  
 Chakravarti, K.K., T23  
 Chakravorty, P.N., T48  
 Chamberlin, I.W., T32, Y6'  
 Chambers, W.J., A20'  
 Chan, D., A39  
 Chan, J.A., A33, K6  
 Chan, R.P.K., A5, A19, K18  
 Chan, T.H., A48, K19, Y27, A3'  
 Chan, W.K., K1, K15, K1'  
 Chan, W.R., T36, T46, T51, T53,  
     Y10'  
 Chandrasekaran, R., C1  
 Chandross, R.J., T47  
 Chaney, M.O., C1', Y6'  
 Chang, C.T., A38  
 Chang, F.C., Y7, Y8  
 Chang, I., Y27  
 Chang, M.Y., K7  
 Chang Sin-Ren, A., T33  
 Chao, T.H., A27  
 Chapelle, A., K14, K7'  
 Chaplen, P., Y6  
 Chapple, C.L., K2  
 Charalambides, A.A., K4'  
 Chardon-Loriaux, I., K15  
 Charronat, R., T9  
 Chatterjee, A., K9'  
 Chaudri, B., A6  
 Chauvette, R.R., Y29  
 Cheema, Z.K., A47  
 Chekhlov, A.N., A10'  
 Chemerda, J.M., A14'  
 Chen, A.M., Y10'  
 Chen, F., A4', A8'  
 Chen, F.C., Y11  
 Chen, S., Y6'  
 Chen, S.L., K2'  
 Cheney, L.C., A36  
 Cheng, Y.S., T21  
 Cheng-Chiung, L., A30  
 Cheo, K.L., A39  
 Chernov, B.K., Y9'  
 Chetty, G.L., T12, Y15  
 Cheung, H-C., T2  
 Cheung, K.K., T38, Y13, Z8, Y4'  
 Chevalier, R., X7  
 Chexal, K.K., Y2'  
 Chiari, D., K16  
 Chiba, R., Y14  
 Chickos, J., Z4, Z5, Z6  
 Chidester, C.G., C1, T30, Y12'
- Chikamatsu, H., T21  
 Chikamoto, T., T17  
 Childers, L.S., K21  
 Chilton, W.S., A10  
 Chimura, H., A20'  
 Chin, C., Y15  
 Chin, W.J., T15'  
 Chmurny, A.B., A27'  
 Cho, I., A29  
 Chome, C., K7'  
 Chopra, C.S., T43  
 Chothia, C., A22'  
 Chou, T.S., T50  
 Chow, S.W., T28  
 Chow, W.Z., T2'  
 Chow, Y-L., T32  
 Christensen, B.W., A8, A12, A33, Z8,  
     Z7'  
 Christensen, H.N., A33'  
 Christiansen, G.D., X3'  
 Christie, J.B., A23  
 Christol, H., A40'  
 Chu, C-Y., T7'  
 Chu, S.C., K27  
 Chuprunova, O.A., Y16  
 Ciardelli, F., A35'  
 Cimino, G., T57, T3', T14'  
 Cinquini, M.A., A6', D3', X1', Z5',  
     Z6', Z7'  
 Claesen, M.H., A18'  
 Claeson, G., A18, A15'  
 Clardy, J.C., K2, K6, K15, K20, Y28,  
     T7', T13', T15', K6', Y4', Y7',  
     Y12'  
 Clark, D.R., A41, A19'  
 Clark, G.R., T33, K2'  
 Clark, K.J., T13  
 Clark, R.C., K1'  
 Clark, S.D., X1, X1'  
 Clarke, F.H., T29  
 Clarke, H.T., Y29  
 Clarke, R.L., T39  
 Clarke, T.C., A2'  
 Clark-Lewis, J.W., A10, Y3, Y4, Y5  
 Clements, J.H., K3  
 Closse, A., Y19  
 Clossen, W., T42  
 Clower, M.G., T5'  
 Coates, R.M., T27  
 Cochran, T.G., A21', A40', Y12'  
 Cockburn, G.B., T10  
 Cocker, W., T19, T21  
 Cody, V., A5  
 Coelho, J.S. de B., T45  
 Coetzer, J., K5', K8'  
 Coffin, R.L., A37'  
 Coggan, P., T20, T22, T40, K10  
 Coghi, L., Z8'  
 Cohen, A., T48  
 Cohen, E., A12'  
 Cohen, J., A39'  
 Cohen, S.G., A6  
 Coke, J.L., A13, A2'  
 Colapietro, M., A1'  
 Cole, A.R.H., T43  
 Cole, R.J., K6'  
 Collet, A., A23, A8'  
 Collins, C.J., A23, A47, A8'

## Author Index

---

- Collins, D.J., A43, A45, T51  
 Collins, J.F., A8, K31, K10'  
 Colombo, C., Y22  
 Colomer, E., Z1'  
 Colonna, S., A6', D3', X1', Z5', Z6',  
     Z7'  
 Comer, F.W., T31  
 Comin, J., K3, K4  
 Cone, C., A5  
 Cone, N.J., K15  
 Confalone, P.N., A9'  
 Conia, J.M., A31'  
 Conlay, C., T41  
 Connell, D.W., T2  
 Connolly, J.D., T32, T34, T40, T51,  
     T8'  
 Conover, L.H., Y28  
 Consiglio, G., A15'  
 Cook, C.E., K29  
 Cook, M.M., A3', A6', A17'  
 Cook, R.J., Z2'  
 Cook, W.J., A16  
 Cookson, R.C., T29, K21, T10'  
 Cooper, A., T32, T47, T50  
 Cooper, E.L., Y8'  
 Cooper, G.F., Y8'  
 Cope, A.C., A3, X2, X11  
 Coppola, J.C., T27  
 Corbelli, A., T24, T31, A1', A4',  
     T7', T9', D1'  
 Corbett, R.E., T15'  
 Corey, E.J., A5, A13, T22, T28, T30,  
     T42, T52, A5', A13', Y8'  
 Cornforth, J.W., T3, D2  
 Cornforth, R.H., T3  
 Corradi, A.B., Y20  
 Corriu, R.J.P., Z1, Z2, Z1'  
 Corrodi, H., K3, K4, K30  
 Corsano, S., T50, T51  
 Corse, J., A26  
 Coscia, C.J., T13  
 da Costa Prado, A., Y3'  
 Costin, C.R., A24'  
 Cosulich, D.B., Y19, Y10'  
 Cottis, S.G., X9  
 Coucourakis, E.D., K8'  
 Coulter, M.E., A12'  
 Court, W.A., T13', Y13'  
 Coverdale, C.E., K35  
 Cowdrey, W.A., A1, A4, A11, A12,  
     A22, A51, A13'  
 Cowley, D.E., T43  
 Cox, J.S.G., T50  
 Cox, M.R., A55, T30, A38'  
 Crabbé, P., T53, T56, X1, X5  
 Cradwick, P.D., T24, T30, K20  
 Craig, J.C., A5, A10, A19, A41, K4  
 Craig, J.H., A9'  
 Craig, L.C., K17, K35  
 Craik, J.C.A., Y10  
 Cram, D.J., A21, A46, A48, A49,  
     A51, A56, D2, Z6, Z8, A8', A20',  
     A27', A30', A40', D1', X4', X7',  
     Z6', Z7'  
 Crane, R.I., T6'  
 Cravador, A., K7'  
 Craven, B.M., T31, K13, K14, A11',  
     A18'
- Crawford, R.J., A6, T2, A2', A27',  
     T10'  
 Croft, J.A., Y2'  
 Croft, L.R., Y22  
 Crombie, L., A8, A27, A35, T17, T39,  
     Y1, Y7, T15'  
 Cron, M.J., A36  
 Crooks, H.M., A4  
 Cross, A.D., T47, T48  
 Cross, B.E., T35  
 Crossley, J., A35  
 Crouch, R., T7'  
 Crout, D.H.G., A28, A33, K22, K23,  
     A28'  
 Crowfoot, D.C., T46, Y29  
 Crowley, H.C., K23  
 Cruse, W.B.T., T37  
 Csepreghy, G., A41  
 Cullison, D.A., A40', X2'  
 Culvenor, C.C.J., K22, K23, K24  
 Currie, M., T9'  
 Cushman, M., K20  
 Cutler, M.C., Y15  
 Dabard, R., A14', A40'  
 Daeniker, H.U., T4'  
 Dagne, E., K20  
 Dahl, L.F., Y29  
 Dahlbom, R., A14'  
 Dahlen, B., Z7', Z8'  
 Dahm, D., K6  
 Dahmen, J., A11'  
 Dahn, H., A40  
 Dailey, R.G., T13'  
 Dainis, I., Y3, Y5  
 d'Albuquerque, I.D., T45, Y3  
 Dalgleish, C.E., A22  
 Daloze, D., T8'  
 Dalven, P., T10', K7', Y8'  
 Daly, J.W., A16, A25, T7, K26, K36  
 Dalziel, W., T12'  
 Damodaran, N.P., T12, T30  
 Dangshat, G., A26  
 Daniel, D.S., T5'  
 Danieli, B., T16', K3'  
 Danieli, N., T49  
 Danielsen, J., A4  
 Danilova, A.V., K22  
 Danneels, D., A6'  
 Dardenne, G., A17', A18'  
 Das, B.C., K29  
 Das, K.C., T55, K7'  
 Dastoor, N.J., K10, K15  
 Date, T., A25'  
 Dauben, W.G., T21, T41, T46, T48  
 Daum, S.J., T39  
 Dauphin, G., A18  
 Dauter, Z., Z2'  
 Davey, P., X1'  
 Davidson, R.S., T40  
 Davie, A.W., T52  
 Davies, J.S., A11  
 Davies, R.V., Y10'  
 Davies, V.H., T30  
 Davis, D.D., Z1  
 Davis, P., A14'  
 Davis, R.E., C1, A21'  
 Davis, T.C., A23'
- Davison, A., Z1'  
 Davison, B.E., C1  
 Davoli, V., Z7'  
 Dawson, T.M., T48  
 Day, J., Z8  
 Deane, C.C., A11  
 de Boer, J.L., X3'  
 De Broissia, H., T5'  
 De Bruin, K.E., Z4, Z5  
 De Bruin, K.R., D1'  
 De Camp, W.H., A18', K9'  
 Deeth, H.C., T44  
 De Grazia, C.G., A55, T34  
 de Jongh, H.A.P., K35  
 de la Camp, U., Z7  
 de la Camp, V., A2  
 De La Higuera, N., D3'  
 Delepine, M., T9  
 Delfel, N.E., Y1  
 de Lima, O.G., T45  
 Della, E.W., T5  
 Dell'Erba, C., X5  
 Delmont, D.W., A22  
 Delong, D.C., Y24  
 Delton, M.H., X7'  
 De Lucca, P., T15'  
 Demain, A.L., Y12'  
 de Maindreville, M.D., K13  
 Demanczyk, M., K11, K13  
 de Mayo, P., T18, T21, T28, T43,  
     T53, X5  
 Demetriou, B., X1'  
 Demny, T.C., A5'  
 Denne, W.A., K29, K7', K9'  
 Denney, D.B., A12, A38  
 Dennis, D., Y11'  
 Dennis, N., T9'  
 DePuy, C.H., D1'  
 de Roos, J.B., T22  
 de Rosa, D., T14'  
 De Rosa, M., T15'  
 Dervan, P.B., A24', A31'  
 des Abbayes, H., A40'  
 Desai, H.K., K2'  
 Deshko, T.N., Y11'  
 De Silva, K.T.D., K2'  
 Despreaux, C.W., A32'  
 De Stefano, S., T57, T3', T14'  
 De Titta, G.T., A11  
 Detraz, P., A33'  
 Deulofeu, V., K3  
 de Urries, M.P.J., Z8'  
 Dev, S., T12, T18, T25, T28, T29,  
     T30, T32, T35, T37, A36', T10'  
 De Ville, T.E., T55  
 Devreux, M., T10'  
 de Vries, J.X., Y14  
 de Vries, K.S., A43  
 Devys, M., T7'  
 Diamond, R.D., Y6  
 Diana, G.D., A9  
 Diassi, P.A., K9  
 Diaz-Parra, M.A., T29  
 Dich, T.C., A15'  
 Dick, A.T., K22  
 Dickel, D.F., T46  
 Dickerson, D., T14  
 Dickey, F.H., A13

## Author Index

- 
- Dietrichs, H.H., Y5  
 van Dijk, B., X3'  
 Dilger, W., A20  
 Dillon, J., T58  
 Dion, H.W., A9  
 Dirlam, J., A46  
 di Sanseverino, L.R., T45, T49  
 Diversi, P., A28  
 Dixneuf, P., A14'  
 Dixon, J., T48, A38'  
 Djarmati, Z., K9'  
 Djerassi, C., A28, A29, A38, A39,  
     A53, A54, A55, T1, T2, T7, T8,  
     T9, T13, T23, T25, T32, T34, T35,  
     T36, T42, T45, T50, T51, T56,  
     K4, K12, K13, K32, K34, Y1, Y25,  
     D2, X5, A3', A6', A17', A21',  
     A24', T8'  
 Dobler, M., T27, T13'  
 Dobrynin, V.N., A51, Y28, Y9'  
 Dobson, T.A., K4  
 Doering, W. von E.A., A1, A12, A37,  
     A44, A25'  
 Dolder, F., T35  
 Dolduras, G.A., A27  
 Dolejs, L., T2, T25, K20  
 Domagala, J.M., A51, A55  
 Dominguez, X., T7'  
 Dong, T.P., A24  
 Donnelly, B.J., Y5  
 Donnelly, D.M.X., Y4, Y5, Y1'  
 Donohue, J., Y28, Z4  
 Donovan, W.F., K4'  
 Dopke, W., K6  
 Dorn, C.R., Y8'  
 Dorn, F., K9'  
 Dornberg, M.L., A30  
 Dornhege, E., A20, A22'  
 Van Dorp, D.A., Y8'  
 Dorr, H., A2  
 Dorschel, C., T1'  
 Doskotch, R.W., T37, K29  
 Doty, M.S., A44  
 Douglas, B., K3, K27, K2'  
 Douglas, W.E., Z1'  
 Downing, A.P., X11'  
 Doyle, M., X6'  
 Doyne, T., A4  
 Drabowicz, J., Z4', Z6', Z8'  
 Draffan, G.H., T23  
 Drake, A.F., X1  
 Dreibelbis, R.L., A29'  
 Dreiding, A.S., K17, T7'  
 Dreiding, J., T42  
 Drew, M.G.B., A19'  
 Drewer, R.J., X6  
 Drewes, S.E., Y3, Y4  
 Dreyer, D.L., T52, T57  
 Dreyfus, H., T27  
 Drozdz, B., T21  
 Druelinger, M., A32'  
 Dry, L.J., K22  
 Duarte, A.P., K13  
 Duax, W.L., Y8'  
 Dubini, R., T3  
 Duchamp, D.J., C1, T30, Z8, Y11',  
     Y12'  
 Dudek, V., A25
- Dudley, K.H., A8'  
 Duff, J.M., Z1, Z2  
 Dugat, D., A33  
 Duggan, J.J., K11, K13  
 Dukes, M., T40, A12'  
 Dullforce, T.A., A19, T24, X9  
 Dummer, G., K18  
 Dumont, P.A., A18'  
 Duncan, W.G., T8  
 Dunitz, J.D., T27, T48, Y27, Y28  
 Dunlop, R.W., Y1'  
 Dunn, A.R., A9'  
 Dunn, A.W., T16'  
 Dunnenberger, M., T46  
 Duran, N., A12'  
 Durant, F., A17', A18'  
 Durham, L.J., K13, K14, T8'  
 Dürr, B.G., T13'  
 Durst, O., T34, T42  
 Dusausoy, Y., X9'  
 Duskova, E., X10'  
 Dutcher, J.D., Y26  
 du Vigneaud, V., A4, Y30  
 Dvornik, D., K32  
 Dyachenko, O.A., Z2'  
 Dyer, J.R., Y22  
 Dyrkacz, G.R., A24'  
 Dziemian, R., A39'
- Eaborn, C., Z2  
 Eade, R.A., T43, T51  
 Ealick, S.E., T10'  
 Eastman, R.H., T1, T7  
 Eastwood, F.W., A10  
 Eberhardt, H., X7'  
 Eberle, M., A33  
 Eble, T.E., Y21  
 Ebnöther, A., Y2  
 Eck, C.R., A33, T11, T6'  
 Eckhardt, G., A33'  
 Edmond, E., Y24  
 Edmond, J., T14'  
 Edmonds, J.W., Y8'  
 Edwards, A.G., A36, K10'  
 Edwards, J.A., T15'  
 Edwards, J.D., T7  
 Edwards, O.E., T32, K32, T12'  
 Edwards, T.P., K2  
 Eenshuistra, J., K18  
 Egan, R.S., Y25  
 Eggerer, H., D2  
 Eggers, S.H., Y3  
 Ehl, K., Y23  
 Ehret, C., T25  
 Ehrig, V., A2, A26'  
 Ehrlich, F., A27  
 Einhorn, A., K28  
 Eisenbeiss, J., Y1  
 Eisenbraun, E.J., A28, A36, A38, A39,  
     A55, T13, T14, T15, T25, T50,  
     T56, Y25  
 Eisner, T., K8'  
 Ekong, D.E.U., T52  
 Elander, M., K7'  
 Elderfield, R.C., T49  
 Elhafez, F.A.A., A48, A49, A30'  
 Eiel, E.L., A22, T5, D1, A13'
- Ellestad, G.A., A55, T34, Y11, T13',  
     T14', Y1', Y2', Y4'  
 Elliott, D.F., A24  
 Elliott, M., T17, A35'  
 Elliott, T., A38  
 Elliott, T.H., A39  
 Ellis, J., T43  
 El-Olemy, M.M., K19  
 Els, H., Y25  
 Emerson, M.T., T22, T24  
 Emerson, T.R., K10  
 Emoto, S., Y30, Y2'  
 Endo, K., T4'  
 Endo, M., T35  
 Engel, D.W., T39, T47, T11', Y1',  
     Y10'  
 Engel, L.L., T34  
 Engelmann, A., A5'  
 Englard, S., D2  
 English, J., A31  
 Enslin, P.R., T50  
 Entwhistle, I.D., Y17  
 Enwall, E.L., T16'  
 Enzell, C., T12, T34, Y9, T4', T10',  
     T17'  
 Epe, B., T16'  
 Epstein, W., T3'  
 Erdtman, H., T12, T32  
 Erhardt, K., A5, A17  
 Erman, W., T2, T10'  
 Eschenmoser, A., A20, A39, T5, T42,  
     T1'  
 Escher, K., A11  
 Escobar, M., T1  
 Estlin, J.A., K6  
 Eugster, C.H., A2, T33, T36, T54,  
     Y20, A6', T12', T17', T18', K6'  
 Evans, R.H., Y11, Y6'  
 Evans, R.J.D., X1, X1'  
 Evans, W.C., T6'  
 Eveleens, W., K18  
 Everett, A.J., K2'  
 Evrard, G., A17', A18'  
 Ewing, D.F., A19  
 Eyre, H., T40  
 Eyton, W.B., Y4
- Fabbri, C., K17  
 Faber, L., K5'  
 Fabre, J.M., A40'  
 Fabryova, A., A9', A36'  
 Fairchild, E.H., K29  
 Falcetta, J., A12', A19'  
 Falcone, M.S., T29, T2'  
 Fales, H.M., K6  
 Falgueirettes, J., Z1'  
 Falk, H., X9, X2', X6', X7'  
 Faltis, F., K3  
 Farber, L., T4  
 Fardig, O.B., A36  
 Farges, C., Y6'  
 Farina, M., X10  
 Farney, R.F., T27  
 Farnham, A.W., A35'  
 Farnham, W.B., Z4, Z6, A34'  
 Farnow, H., T1'  
 Farrar, M.W., A53  
 Farrier, D.S., K6, K20

## Author Index

---

- Fasman, G.D., A18'  
 Fattorusso, E., T57, T17'  
 Fauley, J.J., A17'  
 Faulkner, D.J., A33, T58, T7', Y7'  
 Faulstich, H., Z8'  
 Fawcett, J.K., T46  
 Fawcett, J.S., T46  
 Fayos, J., K15, T7'  
 Fazakerley, H., T45  
 Feairheller, S.H., T18  
 Fechtig, O., T12  
 Fedeli, W., T41, Y13'  
 Feeney, J., Y3  
 Fehlhaber, H.-W., T51, T3'  
 Fehr, T., K17  
 Feibusch, B., A4'  
 Feigl, D.M., A12, A22  
 Feil, D., A10'  
 Feldman, W.R., A34'  
 Feldstein, J., T5, T6  
 Felix, D., T1'  
 Feniak, G., T12'  
 Fenical, W., T19, T30, T13', Y4'  
 Ferguson, G.A., A35, T12, T36, T40,  
     T47, T58, K29, K31, T6', Y4'  
 Ferguson, G.W., A4  
 Fernandez, F., A34'  
 Fernando, Q., Y13  
 Fernholz, E., T48  
 Ferranini, P.L., A22, A23  
 Ferrari, C., K3  
 Ferrari, F., Y3  
 Ferrari, G., T24, T9', T15'  
 Ferrari, M., T40  
 Ferretti-Aloise, M.-G., T16  
 Ferris, J.P., K20, K27  
 Feyen, P., A51, A28'  
 Ficken, G.E., Y23  
 Fickett, W., A13  
 Filho, J.M.F., K16  
 Filippo, J.S., A12  
 Finch, N., A52, K9, K10, A39'  
 Finer, J., T13', T15', Y7'  
 Finnegan, R.A., T36  
 Finney, J.T., K4'  
 Fischer, E., A4, A20  
 Fischer, E.G., T51  
 Fischer, G.H., A8  
 Fischer, H., Y23  
 Fischer, H.O.L., A11, A13, A14, A15,  
     A16, A26  
 Fischer, J., K7'  
 Fitzgerald, M.A., Y1'  
 Fleck, W.E., Y1  
 Fleischer, E., A9  
 Fleming, I., T22, Y23  
 Fles, D., A34, K22  
 Flohr, K., A18'  
 Flores, S.E., T36, K13  
 Floyd, J.C., Y22  
 Fluck, E., Z4'  
 Flynn, E.H., Y29  
 Focella, A., A10'  
 Fodor, G., A2, A41, K19, K28  
 Foley, J.W., D3'  
 Foley, P.J., A36, A38  
 Foley, W.M., A3'  
 Folkers, K., A4, A22, Y24, Y30
- Folting, K., K21  
 Foltz, C.M., A21  
 Fonken, G.S., A8  
 Ford, L., T13  
 Ford, M.E., A22'  
 Forgione, A., A1', A4', D1'  
 Fornasier, R., A6', Z6', Z7'  
 Forrester, J.D., A4, A11  
 Fouquet, G., A27'  
 Fouquey, C., T53, A20', A25', A30'  
 Fourie, L., Y2  
 Fouweather, C., Y2'  
 Fowden, L., A27  
 Fowler, L.R., K33  
 Fox, J.A., Y21  
 Fracheboud, M., T19, T7'  
 Frahm, A.W., A10'  
 Franceschi, G., Y28  
 Francis, J.E., K25  
 Franck, R.W., K35  
 Francois, P., K2  
 Frank, B., Y17  
 Frank, G.W., X6'  
 Fraser, S.B., K2  
 Fraser-Reid, B., Y28, Y2'  
 Fratini, A.V., Y20  
 Fray, G.I., T13  
 Fredga, A., A1, A2, A4, A18, A31,  
     A32, A50, A57, A14', A35'  
 Freeman, H.C., A11  
 Freeman, J.P., A22, A13'  
 Freiberg, L.A., Y25  
 Freudenberg, K., A1, A2, A4, A26,  
     A29, T2, Y7  
 Frey, A.J., A33, K11, K17  
 Frey, P.A., D1  
 Freyss, G., A5  
 Fridrichsons, J., T44, K3, K4, K5,  
     K18, K22, K31, Y24, K3'  
 Fried, J., Y8'  
 Fried, J.H., T48, T15'  
 Friederang, A.W., A3'  
 Friedli, H., A16  
 Fries, D., A18'  
 Fries, R.W., A22'  
 Fritz, H., A37'  
 Frohardt, R.P., A4  
 Frosch, J.V., T48  
 Frost, D., Y3  
 Frostl, W., X9, K6', X2'  
 Fry, A.J., A10  
 Frye, C.L., Z1  
 Fuchs, C.A., T33  
 Fuchs, H., Z3, Z5  
 Fuganti, C., D2, K1'  
 Fuji, K., T15, K15, K20  
 Fujii, T., A5'  
 Fujimoto, H., K5'  
 Fujimoto, T., T44  
 Fujimoto, Y., A30  
 Fujino, A., T13  
 Fujisawa, K., T12'  
 Fujise, S., T15  
 Fujise, Y., Y3  
 Fujita, E., T33, K20, T13'  
 Fujita, M., Y3'  
 Fujita, S., A19, A41  
 Fujita, T., A50, T24, T30, T33, T13'
- Fujita, Y., A10  
 Fujitani, K., K5  
 Fujiwara, T., T45, K5, K1'  
 Fukazawa, Y., K35, T8'  
 Fuks, Z., A19  
 Fukui, K., T12', K8'  
 Fukumoto, K., K2  
 Fukuoka, M., Y7'  
 Fukushima, S., T45, K24, Y1'  
 Fukuyo, M., T15  
 Fukuzawa, A., Y4', Y14'  
 Fulke, J.W.B., T37  
 Fullerton, D.S., T50  
 Funakura, M., A30', A35'  
 Furst, A., A53, T19  
 Furukawa, H., T9'  
 Furukawa, M., C1'  
 Furusaki, A., T23, T30, Y17, Y20,  
     Y25, T11', K9', Y4', Y11'  
 Furuta, S., A16, A26  
 Fusari, S.A., A4  
 Fushiya, S., T11'  
 Gaal, G., K4  
 Gabe, E.J., T21, T29, K28, D2  
 Gabbetta, B., K3'  
 Gachon, P., Y6'  
 Gadola, M., T1  
 Gaffield, W., A4, A7, A8, A27, Y3,  
     A4', D3'  
 Gafner, G., T13'  
 Gagnaire, D., A25  
 Gajewski, J.J., A37  
 Galasko, G.G., T55  
 Galbraith, M.N., T38, T17'  
 Galetto, W.G., A4, A8, A27, A4'  
 Galik, V., T32, T34  
 Gallagher, M.J., Z3  
 Gallagher, R.T., Y13, K4'  
 Gallen, B., A25'  
 Gallina, C., Y22  
 Galt, R.H.B., T35  
 Galt, S., A36  
 Games, M.L., T39  
 Gandhi, S.S., T49  
 Ganguli, G., K20  
 Ganguly, A.K., A17  
 Ganis, P., Y26  
 Ganter, C., A7', X11'  
 Gaoni, Y., T5  
 Garanti, L., T4', T5'  
 Garbarino, J.A., A40, X5  
 Garbers, C.F., T50  
 Gardello, L.A., A36, A38, Y13  
 Gardiner, R.A., K5'  
 Gardner, J.A.F., Y7  
 Gariboldi, P., T24, A1', A4', T7', T9',  
     D1'  
 Garner, H.K., A13  
 Garratt, S., A45, K2  
 Garwood, D.C., Z8  
 Garza, A., A21'  
 Gascoigne, R.M., T50  
 Gassman, P.G., T12, A33'  
 Gassmann, I., T39  
 Gaudemer, A., Y19, T7', Y3'  
 Gaudemer, F., Y3'  
 Gaudemer, M.A., T53

## Author Index

---

- Gautheron, B., X9'  
 Gautschi, F., A53, K35  
 Gawroski, J., K21  
 Geipel, R., T3'  
 Geise, H.J., A18  
 Geismar, W., A55  
 Geissman, T.A., T22, T24, T9'  
 Gella, I.M., A14', A17'  
 Geller, L.E., A29, A38  
 Gemenden, C.W., K11  
 Gempeler, H., Y4  
 Van Der Gen, A., T9  
 Gentes, F.H., A27  
 George, T., T25  
 Georghiou, P.E., Y14'  
 Gerald, M.C., A20, A7'  
 Gerber, H., A37'  
 Gerlach, H., D1, X3, X3'  
 Ghazarossian, V.E., Y12'  
 Ghiringhelli, D., D2  
 Ghisalberti, E.L., T29, T40, T14'  
 Ghislandi, V., A21, A22, A23, A25  
 Ghosh, C.K., D1  
 Giacomelli, G., A15'  
 Giacomello, G., Y26  
 Giacopello, D., T50  
 Gibbon, G.A., A17  
 Gibbons, C.S., K26  
 Gibbs, J.A., T53  
 Gibson, D.T., A7', A21'  
 Gibson, K.H., K2  
 Giddings, W.P., A46  
 Gieren, A., A18'  
 Giersch, W., T3  
 Gifkins, K.B., Y4'  
 Gigg, J., A15  
 Gigg, R., A15  
 Giguere, J., A6  
 Gil, G., A31'  
 Gilardi, R.D., K36, Y20  
 Gil-Av, E., A4'  
 Gilbert, B., K13, K14  
 Giles, D., A36  
 Gillam, A.E., T20  
 Gillard, R.D., A19  
 Gilman, N.W., A40'  
 Gilman, R.E., X7'  
 Gilmore, C.J., T13', K1', Y10', Y13'  
 Giordano, F., T15'  
 Giovini, R., Z6'  
 Giral, L., A56, T1, A15', A30', A37',  
     A40'  
 Girling, R.A., C1'  
 Girotra, N.N., T32, K32  
 Gitany, R., T9'  
 Givens, R.S., A37'  
 Glass, M.A.W., T8, X5, X10  
 Glattfield, J.W.E., A3  
 Glauert, R.H., Y28  
 Glinsukon, T., Y12'  
 Gloe, A., Y23  
 Gloor, U., T56  
 Glotter, E., T48  
 Glusker, J.P., A30, A25'  
 Gmelin, R., A23  
 Go, K.T., T4  
 Godfredson, W.O., T31  
 Godfrey, J.C., K7
- Godfrey, J.E., T38  
 Godfrey, J.M., Y24  
 Godin, P.J., A8, T17, Y1  
 Godinho, I.D.S., A45, T58  
 Godson, D.H., T12'  
 Goering, H.L., A12, A34, A38  
 Goffinet, B., T48  
 Goi, M., T1'  
 Gokel, G.W., X8, A14', X9'  
 Gold, A.M., A53, T19  
 Goldberg, S.I., A26, Z3  
 Goldman, I.M., T25, T27  
 Goldschmidt, S., A5  
 Goldstein, M.L., Z8'  
 Gollnich, K., T6  
 Gomez, F., T41  
 Gomm, M., Z5  
 Gonzales, M.P., T1, Y17  
 Goodfellow, D., T54, T55  
 Goodman, M., A12', A19'  
 Goodwin, D.G., A6  
 Gopalakrishna, E.M., T32, T47  
 Gordon, J.T., T44  
 Gordon-Gray, C.G., K8'  
 Gore, J., A24', A31', X1'  
 van Gorkom, M., A36'  
 Gorman, A.A., K14, K15, K3'  
 Gorman, M., K11, K15  
 Gosche, R., K26  
 Gossinger, E., K36  
 Gosteli, J., Y29  
 Goto, G., Y32  
 Goto, K., K4, K5  
 Goto, M., T45  
 Goto, T., Y20, Y14'  
 Gottarelli, G., A21, A22, A23, A14',  
     A20', Z9'  
 Gottlieb, O.R., Y3, Y4, Y3'  
 Gotz, M., K29  
 Gough, L.J., T33  
 Goutarel, R., K8, K9, K30, K36, A4',  
     K10'  
 Govindachari, T.R., T23, T52, K2',  
     K5'  
 Gowal, H., X9  
 Grabarczyk, H., T21  
 Gracian, D., A23'  
 Grady, R.A., Y1, K1'  
 Graf, W., K36  
 Graham, C., T16  
 Graham, E.M., T36  
 Grandi, R., T5'  
 Granger, M.R., D1  
 Grant, D.F., T23, T29  
 Grant, H.G., T4'  
 Grant, P.K., T34, T36, T43  
 Grant, T.J., K26  
 Gras, J-L., A31', X1'  
 Grasselli, P., D2  
 Grau, G., A11'  
 Gray, A.H., K29  
 Gray, D.O., A27  
 Gray, E., A9  
 Gray, G.A., K10'  
 Gray, R.T., T7  
 Gray, R.W., A29'  
 De Grazia, C.G., A55, T34  
 Green, B., A55, T34
- Green, C.D., T25, T5'  
 Green, F.C., T7  
 Green, M.M., A12, Z7, Z8, D2', Z5',  
     Z8'  
 Green, N.M., Y30  
 Greenbaum, M.A., X6  
 Greenfield, N.J., A18'  
 Greenfield, S., T48  
 Greenstein, J.P., A7'  
 Greeves, D., A17  
 Gregonis, D.E., K15  
 Gregory, B., K2  
 Gregson, M., Y5  
 Grenda, V.J., A14'  
 Grethe, G., K1  
 Greuter, F., T26  
 Grieb, R., T7'  
 Grieder, A., T19, T7'  
 Grimshaw, J., A49, T2'  
 Grimshaw, J.T., T2'  
 Grinter, R., X6  
 Griot, R., K17  
 Groen, M.B., X6'  
 Groenewege, M.P., X4'  
 Gröger, D., K10'  
 Gronowitz, S., A1, A21, X5  
 Groot, C., D2'  
 von Gross, B., T3'  
 Gross, E., A9'  
 Grossert, J.S., K12  
 Grove, J.F., T31, T35, Y17, T11'  
 Gruber, W., A41, A26'  
 Grundon, M.F., A8, A10, K31, K10'  
 Grzeskowiak, R., X1'  
 Gschwend, H.W., X9'  
 Guastini, C., K16  
 Gubler, B., T27  
 Guerriero, A., T3'  
 Guerin, C., Z1'  
 Guest, A., X7'  
 Guest, I.G., T29, A24'  
 Guette, J.P., A25, A50, A3', A19',  
     A39'  
 Guggisberg, A., K14, A29', K6'  
 Guglielmetti, L., T34  
 Guilhem, J., K36, A8', K10'  
 Gumlich, W., K12  
 Gunay, G.E., T18  
 Gunning, P.J.M., Y1'  
 Gunstone, F.D., A7  
 Gupta, T.K., A7'  
 Gurbaxani, S., T2  
 Gurevich, A.I., A51, Y28, Y11'  
 Gustafsson, H., A14'  
 Gustafson, P., X5  
 Guthrie, R.D., A3, C1, D2, D1'  
 Gutmann, H., T34, T42  
 Gutsche, C., D2  
 Gutsche, C.D., A38  
 Guttman, L.J., T16'  
 Gutzwiller, J., T31, A32'  
 Gwiner, R., A2
- Haas, G., X11, X4'  
 Habaguchi, K., T44  
 Hadine, C.I., T22  
 Haefliger, W., T5  
 Haenel, M., X6'

## Author Index

---

- Hagaman, E.W., T3  
 Haginawa, J., K11, K4'  
 Hagishita, S., A47, A51, X3, A23',  
     A38', X2', X3', X8'  
 Hahs, S.K., A24  
 Hai-fu, F., A30  
 Hajicek, J., A37'  
 Halak, N., K8'  
 Hale, R.L., T50  
 Hall, A.L., T3'  
 Hall, S.R., T43, Y15'  
 Hall, S.S., T7'  
 Haller, G., X9  
 Haller, H.L., A1, A6, A12, A22  
 Haller, R., A30'  
 Hallsworth, A.S., T2  
 Hally, D., T34  
 Halpern, B., A4  
 Halpern, O., A28, T16, Y25  
 Halsall, T.G., T19, T20, T37, T43,  
     T45, T52  
 Haltiwanger, R.C., T41, Y13'  
 Ham, P.J., T45, T15'  
 Hamada, M., A7'  
 Hamada, Y., K6  
 Hamamoto, T., K11  
 Hamanaka, N., T11'  
 Hamberg, K., Y8'  
 Hamill, R.L., Y6'  
 Hamilton, J.A., K27, Y30  
 Hamilton, R.D., Y8'  
 Hamlow, H.P., T11  
 Hamm, P., T18  
 Hammel, R.F., Z9'  
 Hammer, C.F., T53, A9'  
 Hamon, A., A25'  
 Hamor, T.A., T37, T58, K26  
 Hamsher, J.J., T5  
 Hanahan, D.J., A15  
 Hanaoka, M., K11, K16, K18  
 Hanayama, N., T27  
 Hancock, W.S., T12'  
 Handelsman, B., A14'  
 Hanic, F., T18  
 Hannaford, A.J., A55  
 Hannaway, C., A35, T47, T6', K1'  
 Hänsel, R., Y4'  
 Hansen, J.F., K6  
 Hansen, S.E., A8, A14'  
 Hanson, A.W., A18, K7  
 Hanson, G.C., A46  
 Hanson, J.R., T35, T36, T47, T1'  
 Hansson, B., A26  
 Hanzmann, E., T58  
 ul-Haque, M., T22, T24  
 Harada, H., K29  
 Harada, I., Y1  
 Harada, K., A19, A24, A8'  
 Harada, N., T30, Y18, T17'  
 Harada, S., Y26  
 Harata, K., X6  
 Harayama, T., K25  
 Hardcastle, G.A., Y29  
 Hardegger, E., A9, A20, K3, K4, K30,  
     Y4, Y6  
 Harding, A.E., T8'  
 Hardy, A.D.U., T24  
 Hardy, D.G., K4  
 Harrington, C.R., A5  
 Harispe, M., T8, T9  
 Harita, S., X10'  
 Harle, E., T39  
 Harley-Mason, J., A24, T9'  
 Harper, P., T43  
 Harper, S.H., A27, A35  
 Harris, A., T34  
 Harris, D.A., K14  
 Harris, D.R., Y25  
 Harris, H.E., X4'  
 Harris, J., A7  
 Harris, M.M., X6, X4'  
 Harris, S.A., A4, Y30  
 Harrison, H.R., T52  
 Harrison, I.T., T41, T48, A13'  
 Harrison, J.W., T40  
 Harrison, S., T34, T41  
 Hart, N.K., K10, K21, K6'  
 Hart, P.A., A39  
 Hartshorn, M.P., T10  
 Hartwell, J.L., A5, A31, Y7  
 Harvey, R.G., T50  
 Hasan, M., A18'  
 Hashimoto, T., Y14'  
 Haskell, T.H., A4  
 Hassall, C.H., A11, Y4  
 Hassan, M.M.A., A31  
 Hassanali-Walji, A., Y22  
 Hata, T., A12', Y11'  
 Hatam, N.A.R., Y9  
 Hattori, T., T50  
 Hattori, Y., Z7  
 Hauk, F., A5  
 Hauser, C.R., A20'  
 Hauser, D., Y14, Y24  
 Hauser, F.M., K6  
 Havinga, E., A10  
 Hawks, R.C., K10  
 Hawks, R.L., K20  
 Hawley, D.M., Y27, T6'  
 Haworth, R.D., Y7  
 Haworth, W.N., A3  
 Hayashi, M., T23, X2'  
 Hayashi, S., T18, A33', T8'  
 Hayashi, T., A41, T17, T12', X9'  
 Hayashi, Y., T15, T23, T38  
 Hayatsu, R., A29  
 Hayes, W.K., T21  
 Haynes, L.J., T36, K3  
 Hearn, W.R., A11  
 Heath, H., A20  
 Hecht, H., Y10'  
 Hecker, E., T39  
 Hedlund, L., A32  
 Heese, J., A5'  
 Hefelfinger, D.T., X6'  
 Heffler, M., A48  
 Hegarty, B.F., T17  
 Hegde, B.H., T20  
 Hegedüs, B., A10'  
 Heid, E., X1'  
 Heissner, C.J., Y11'  
 Heller, S.R., A9'  
 Heller, W., A29'  
 Hellwinkel, D., X10  
 van der Helm, D., A30, T31, T41,  
     T10', T16', Y4'
- Helmchen, G., X4'  
 Helmkamp, G.K., D1  
 Hemingway, J.C., T24  
 Hemingway, R.J., T24, Y19  
 Hempel, A., Z2'  
 Henbest, H.B., T2  
 van den Hende, J.H., K4, Y27, Y10'  
 Henderson, M.S., T37  
 Hendrickson, J.B., K26  
 Hendry, J.A., T4  
 Heng, C.K., T15'  
 Henley-Smith, P., Y10'  
 Henrick, C.A., T5, T36  
 Henry, J.A., K12  
 Henry, T.A., T2  
 Herald, D.L., Y30  
 Herbert, R.B., K4  
 Herbst, D., T23  
 Herin, M., T10'  
 Herlem, D., K36, K3'  
 Herlem-Gaulier, D., K36  
 Hermann, H., Y24  
 Hernandez-Montis, V., C1'  
 Herout, V., T11, T14, T16, T18, T19,  
     T21, T22, T23, T25, T26, T6'  
 Herr, R.R., Y21  
 Herran, J., T36  
 Herrin, J., Y11  
 Herrmann, T., Y6'  
 Hertler, W.R., K34  
 Herz, W., T21, T24, T35, T1', T3',  
     T9'  
 Herzog, E., T39  
 Hesp, B., T12'  
 Hesse, M., K11, K13, K15, K16, A29',  
     K3', K6', K10'  
 Heusler, K., Y29  
 Heusner, A., Y29  
 Hever, D.B., Y23  
 Hewson, A.T., T9'  
 Heyl, D., Y24  
 Van Heyningen, E., Y29  
 Hezemans, A.M.F., X4'  
 Hibbin, B.C., A23  
 Hickel, D., Y11  
 Hickernell, G.K., T39, Y12  
 Hicks, A.A., X11'  
 Hicks, K., K8'  
 Hiestand, A., T46  
 Hight, P.F., K6  
 Hight, R.J., K6  
 De La Higuera, N., D3'  
 Hill, R.E.E., Z2  
 Hill, R.K., A28, A30, A33, A36, A38,  
     A48, A56, K19, K30, Y1, Y13,  
     Y27, X4, A3', A24', A28', A40',  
     K10', X2'  
 Hille, C., Y4'  
 Hiniko, H., T19, T25, T27, T38, T53,  
     T7', T11'  
 Hiniko, Y., T25  
 Hirabayashi, M., T15  
 Hirai, K., T32  
 Hirama, M., T8'  
 Hiramatsu, M., Y25  
 Hirata, T., T15'  
 Hirata, Y., T22, T39, K22, K26, Y20,  
     T3', K3', K9', Y13'

## Author Index

- 
- |   |  |  |
|---|--|--|
| <p>Hiroi, K., A9', A32'</p> <p>Hirose, Y., T6, T18, T20, T23, T29, Y1, Y9</p> <p>Hirsch, H., K4</p> <p>Hirschfeld, D.R., T13'</p> <p>Hisada, S., Y7</p> <p>Hitchcock, P.B., T1'</p> <p>Hitchens, M., A16</p> <p>Hite, G., A17', A18', A37'</p> <p>Hlubucek, J.R., Y3'</p> <p>Hobbs, J.J., A43, A45</p> <p>Hobbs, P.D., T8, T2'</p> <p>Hocheder, F., Y23</p> <p>Hochstein, F.A., Y25</p> <p>Hochstetler, A.R., T4'</p> <p>Hodder, O.J.R., T37, T53</p> <p>Hodges, R., T36, T50, Y13, Y24</p> <p>Hodgkin, D.C., T48, T50, Y24, Y29</p> <p>Hodgkin, J., T5</p> <p>Hodgson, G.L., T5, T28</p> <p>Hodson, H.F., K11</p> <p>Hoekstra, M.S., Z6', Z8'</p> <p>Hofer, O., X9</p> <p>Hoffman, P.H., X7', X8'</p> <p>Hoffmann, P., X8</p> <p>Hoffsommer, R.D., Y14</p> <p>Hofheinz, W., T8, T26</p> <p>Hofmann, A., A33, T49, K11, K17</p> <p>Hofmann, K., T42</p> <p>Hoge, R., C1</p> <p>Hohmann, W., A26</p> <p>Hohne, E., T49, K34</p> <p>Hoizey, M-J., K13</p> <p>Holker, J.S.E., T50, Y13, Y2'</p> <p>Hollands, R., Y19</p> <p>Hollands, T.R., T35, X5</p> <p>Hollenbeak, K.H., Y5'</p> <p>Holliday, I.A., A28'</p> <p>Holness, N.J., T42</p> <p>Holst, J.P.C., Z3</p> <p>Holt, A., Z1'</p> <p>Holub, M., T18, T21, T25, T5', T6'</p> <p>Holubka, J.W., A6'</p> <p>Holzapfel, C.W., T50</p> <p>Homer, G.D., Z7</p> <p>Honda, O., T38</p> <p>Honda, T., K3, K5</p> <p>Honda, Y., T15</p> <p>Honjo, M., A21</p> <p>Honma, H., T38</p> <p>Honmaru, S., A24, A25</p> <p>Honwad, V.K., A49, T16</p> <p>Hooper, I.R., A36</p> <p>Hooper, J.W., Y17</p> <p>Hootele, C., K7'</p> <p>Hope, D.B., A12</p> <p>Hope, H., A2, T24, Z7, A13'</p> <p>Hopkins, B.J., T12</p> <p>Hoppe, W., T38, T39, T47, T48, A18', T11', Y1', Y10'</p> <p>Hopps, H.B., X5, X10, A30'</p> <p>Horak, M., T28, T6'</p> <p>Horeau, A., T8, K5, D1, A3', A39', D1'</p> <p>Hori, K., K4'</p> <p>Horibe, I., T19, T20</p> <p>Horii, S., A31'</p> <p>Horii, Z., K18</p> | <p>Horn, D.H.S., A1, T38, K6, T17'</p> <p>Horner, L., Z3, Z4, Z5</p> <p>Horrocks, W.de W., X5</p> <p>Hortmann, A.G., A22, T5'</p> <p>Hosanki, N., K35</p> <p>Hoshino, T., T42</p> <p>Hosking, J.R., T34, T36</p> <p>Hosoi, K., T1'</p> <p>Hosokawa, T., Y4'</p> <p>Hoss, H.G., A10</p> <p>Hossain, M.B., T31, T41</p> <p>Houbiers, J.P.M., X4</p> <p>Hough, E., K7</p> <p>Hough, L., C1</p> <p>Howard, C.C., Y17</p> <p>Howarth, T.T., Y29</p> <p>Howe, N.E., A27'</p> <p>Howe, R., T10, T32</p> <p>Howison, P.W., A21, Y29</p> <p>Hruban, L., K1, K5, Y19</p> <p>Hrubek, J., K5, K10</p> <p>Hsiung, V., C1</p> <p>Hsu, I.N., T16'</p> <p>Hu, S., T23</p> <p>Huang, F., A33</p> <p>Huang, H-C., T9'</p> <p>Hub, L., A11, K23, A28'</p> <p>Huber, C.S., K1, K19, K28, K7'</p> <p>Huber, R., T48</p> <p>Huber, W., Y8'</p> <p>Hückel, W., A37, T10, T12</p> <p>Huckstep, L.L., K15, Y24, D3'</p> <p>Hudson, H.R., A6</p> <p>Hug, W., X3'</p> <p>Hugel, G., T35, K3'</p> <p>Hughes, C.R., T29, A24'</p> <p>Hughes, E.D., A1, A4, A11, A12, A22, A23, A51, A13'</p> <p>Hughes, G.K., K5</p> <p>Hugo, J.M., K12</p> <p>Huitric, A.C., A21'</p> <p>Hulbert, P.B., Y3, Y4, Y7, X11</p> <p>Hulshof, L.A., X3', X11'</p> <p>Hundt, H.K.L., Y6</p> <p>Hunt, D.J., C1</p> <p>Hunt, G.E., A9</p> <p>Hunt, N., Y12'</p> <p>Hunziker, H., K5'</p> <p>Hurley, A.C., K26</p> <p>Hurley, J.C., T7'</p> <p>Hurst, J.J., T8</p> <p>Hursthouse, M.B., A55, C1, K8'</p> <p>Hurwitz, C., A12'</p> <p>Husson, A., K4'</p> <p>Husson, H-P., K15, K29, K3', K4'</p> <p>Hutchins, R.O., T5, A13'</p> <p>Hutchinson, C.R., K2</p> <p>Huth, H., Y4'</p> <p>Hyeon, H.B., T14, T18'</p> <p>Iavarone, C., A25'</p> <p>Ibe, S., T20</p> <p>Ibuka, T., T9'</p> <p>Ichihara, A., A30</p> <p>Ichikawa, M., Y1'</p> <p>Igarashi, H., T50</p> <p>Iguchi, K., T44</p> <p>Iguchi, M., T22</p> | <p>Ihara, M., K3</p> <p>Iinuma, H., A4', T9', Y5'</p> <p>Itaka, Y., C1, T24, T32, T33, T41, T45, T51, K24, K32, K35, Y18, Y26, X6, A10', A14', A20', C1', T3', T9', T11', T13', T15', K5', Y4', Y10', Y11', Y14', Z5'</p> <p>Ikeda, M., K18</p> <p>Ikekawa, N., T22</p> <p>Ikekawa, T., C1</p> <p>Ikeya, Y., Y10'</p> <p>Ikuta, M., T22</p> <p>Imado, S., K18</p> <p>Imai, S., T45, T12'</p> <p>Imaida, M., A3'</p> <p>Imazumi, K., T22</p> <p>Imazumi, S., A51</p> <p>Imamura, H., T38</p> <p>Imamura, K., A19</p> <p>Imanishi, M., T45</p> <p>Imanishi, T., K18</p> <p>Imhof, R., K15</p> <p>Immirzi, A., T7', K1'</p> <p>Impastato, F.J., A54, A27'</p> <p>Inagaki, I., Y7</p> <p>Inayama, S., T24, T9'</p> <p>Inch, T.D., A11, A40'</p> <p>Indest, H., Z8'</p> <p>Ingold, C.K., A1, A4, A11, A12, A22, A23, A26, A51, C1, X4, A13'</p> <p>Ingrosso, G., A29</p> <p>Ingwalson, P.F., T8'</p> <p>Inhoffen, H.H., A45</p> <p>Inoue, T., Y3'</p> <p>Inouye, H., T13, T15, Y17</p> <p>Inouye, K., T15</p> <p>Inouye, Y., A24, A35, A37, A44, T4, T17, A14', A27'</p> <p>Insole, J.M., X5</p> <p>Inubushi, Y., T44, K6, K25, K31</p> <p>Irai, Y., T45</p> <p>Irrevere, F., A30</p> <p>Irie, H., T17, K29, K3'</p> <p>Irie, T., T12, Y4'</p> <p>Irvine, D.S., T46</p> <p>Iсаacs, N.W., K2</p> <p>Ishibashi, K., T32, T41</p> <p>Ishida, T., Y5'</p> <p>Ishihara, T., A5'</p> <p>Ishii, H., T25, K25, Y5'</p> <p>Ishikawa, K., A40</p> <p>Ishikawa, M., T18, T21, K8</p> <p>Ishizaki, Y., T23</p> <p>Ishizuka, K., K3'</p> <p>Iskandarov, S., K6'</p> <p>Isler, O., T56</p> <p>Isobe, K., T45</p> <p>Isoe, S., T14, T18'</p> <p>Isono, T., T29</p> <p>Itai, A., T41, C1', T9', Y11'</p> <p>Ito, M., A19, T42</p> <p>Ito, S., T38, Y3, T4', T8', Y13'</p> <p>Itoh, I., K15</p> <p>Itschner, V., A10</p> <p>Ivanov, I.C., K21</p> <p>Iverach, G.C., K25, K26, K32</p> <p>Ives, D.A.J., T46</p> <p>Iwadare, S., K3'</p> |
|---|--|--|
-

## Author Index

---

- Iwadare, T., T15'  
 Iwaki, S., Y3'  
 Iwasa, K., K1'  
 Iwasaki, F., Z7'  
 Iwasaki, H., A19, C1'  
 Iwasaki, S., T50  
 Iwasaki, T., A5'  
 Iwata, K., T43, T44, T45  
 Iwata, T., K6  
 Izawa, M., Y4'
- Jackman, D.E., A25', A33'  
 Jackman, L.M., T56, Y4  
 Jackson, B.G., T33, Y29  
 Jackson, W.R., A10  
 Jacob, G., T28  
 Jacobi, P., T39  
 Jacobs, W.A., T49, K17, K35  
 Jacobson, R.A., K6  
 Jacobus, J., A12, Z7, Z8, A16', Z5'  
 Jacot-Guillarmod, A., T16  
 Jacques, J., A23, A41, A42, A20',  
     A23', A25', A30', X5'  
 Jaeger, D.A., D2  
 Jaeger, R.H., T13  
 Jaeggi, K.A., T49  
 Jaggi, H., K11  
 Jaggi, W., A20  
 Jahngen, E., K15  
 Jain, M.K., T51  
 James, A.N., T13  
 James, M.N.G., T37, A17'  
 James, R., K4  
 Janes, N.F., A35'  
 Janiga, E.R., Z6'  
 Janot, M.M., K2, K8, K9, K12, K13  
 Jansen, A.C.A., A10  
 Janssen, P.A.J., Y30  
 Janzso, G., K28  
 Jaouen, G., A25  
 Jarreau, F., K30  
 Jarvis, J.A.J., T12'  
 Jay, E.W.K., K33  
 Jay, L., K33  
 Jayco, M.E., A15  
 Jefferies, P.R., T5, T35, T36, T5',  
     T14'  
 Jeffrey, G.A., K9, K27, C1', K2'  
 Jeffreys, J.A.D., K29  
 Jeffs, P.W., T32, K3, K6, K20  
 Jeger, O., A26, A39, A53, T1, T2,  
     T19, T21, T32, T34, T42, T44,  
     T45, T46, T51, T52, T57, K4, K35,  
     Y9, X3'  
 Jellinek, F., Y20  
 Jemison, R.W., Y5  
 Jenkins, I.D., Z3  
 Jenkins, J.A., K26  
 Jenkins, P.N., K7  
 Jennings, J.P., A2, K3  
 Jennings, P.W., T7'  
 Jensen, F.R., Z1  
 Jensen, H., A19  
 Jensen, L.H., A21', A26'  
 Jerina, D.M., A16, A25, A7', A21'  
 Jimenez, F.G., T36  
 Joel, C.D., D1  
 Johansen, J.E., T18'
- Johne, S., K10'  
 Johns, I.B., Y6  
 Johns, R.B., Y23  
 Johns, S.R., K7, K8, K10, K21, K28,  
     K29, X7, K6', K9'  
 Johnson, A.W., Y22  
 Johnson, C.K., A30, D2  
 Johnson, C.R., Z8, Z6'  
 Johnson, D.A., A36, Y29  
 Johnson, D.L., A36  
 Johnson, D.W., A23'  
 Johnson, F.R., Y21  
 Johnson, F.H., Y20  
 Johnson, J.L., T48  
 Johnson, J.R., Y29  
 Johnson, L.F., A16, A26, T35, T36  
 Johnson, P.C., A30, D2, T2'  
 Johnson, R.R., T58  
 Johnson, S.M., T27, Y11, Y16  
 Johnson, W.S., K35  
 Johnstone, R.A.W., Y17, T15'  
 Jommi, G., T24, T31, A1', A4', T7',  
     T9', D1'  
 Jones, D.I., A3  
 Jones, E.R.H., T43, T45, Y15  
 Jones, G., K31  
 Jones, N.D., C1', Y6'  
 Jones, R.G., Y21  
 Jones, R.V.H., T20  
 Jones, W.H., A22, Y24  
 Jones, W.M., A44, X1, X2  
 de Jongh, H.A.P., K35  
 Jonsson, E.U., Z8  
 Jonsson, H-G., A18  
 Jordan, C.F., A14'  
 Jordan, P.M., D2  
 Joseph, J.P., K10'  
 Joseph, T.C., T12  
 Joseph-Nathan, P., T1, Y17  
 Josephson, S., A11', A29'  
 Joshi, B.S., T52, Y1'  
 Joshi, K.R., K28  
 Jostes, F., A27  
 Joule, J.A., K13, K19, Y1  
 Julia, M., A33', A36'  
 Juliano, B.R., A48  
 Juneja, H.R., T2'  
 Jung, G., A18'  
 Junginger, H., A55  
 Junker, N., T10'  
 Jurnak, F.A., C1'  
 Just, G., Y2
- Kabuki, K., T15  
 Kabuto, K., A52, A7'  
 Kaczka, E.A., Y24  
 Kagan, F., Y21  
 Kagan, H.B., A24, A43, A49  
 Kainradl, B., X6'  
 Kaiser, E.T., A18'  
 Kaiser, K., T4'  
 Kaisin, M., K11  
 Kajfez, F., A1'  
 Kajtar, M., Z4'  
 Kakinuma, K., Y14'  
 Kakisawa, H., T38, T44, T11', T12'  
 Kakudo, M., A32  
 Kakushima, M., Y11'
- Kaltenbronn, J.S., A8, Y1  
 Kalvoda, J., A53, T19, K4  
 Kalyanaraman, A.R., Y1  
 Kalyanpur, M.G., A26  
 Kamal, A., Y2  
 Kamat, V.N., Y1'  
 Kamata, S., K31, Y14'  
 Kamawata, T., T9'  
 Kameda, Y., A31'  
 Kametani, T., K2, K3, K5  
 Kamiguchi, M., K1'  
 Kamijo, N., T8'  
 Kamikawa, T., T15, T52  
 Kamiya, K., A50, T45, K5, Y21, Y26,  
     A10', T15'  
 Kamiyawa, K., Z7, T13'  
 Kaneda, M., T3', T13'  
 Kaneko, H., K3'  
 Kaneko, T., A2, A11, A27, A30, K24,  
     A7'  
 Kaneko, Y., A17  
 Kanematsu, K., A20  
 Kanno, T., A24  
 Kano, H., C1  
 Kanters, J.A., Z1'  
 Kapadi, A.H., T32, T35, K9'  
 Kapadia, V.H., T17, T25  
 Kapil, R.S., T13  
 Kapoor, S.K., T8'  
 Kappler, F.E., A12'  
 Karabatsos, G.L., D1  
 Karapetyan, M.G., A51, Y28  
 Karim, A., Y13'  
 Karle, I.L., A30, K6, K26, K36, Y20  
 Karle, J.M., A30, K6, Y20, K4'  
 Karlsson, B., T29  
 Karlsson, R., T3', T8', T10', K7'  
 Karrer, P., A4, A5, A10, A11, A17,  
     A19, A20, A45, T15, K12, Z8  
 Kartha, G., T4, K4, K9, Y9, K2'  
 Kasturi, T.R., T49  
 Katagiri, K., Y3'  
 Kataoka, H., A26, K21  
 Kataoka, K., K35  
 Katarao, E., K31  
 Katayama, C., T23, T37  
 Katayama, H., T33  
 Katayama, T., T6', Y11'  
 Katekar, G.F., Y4  
 Kates, M., A15  
 Kato, K., T22, A20'  
 Kato, M., T15, A30', A35'  
 Kato, N., T37  
 Katsu, M.A., K25  
 Katsuda, Y., T17  
 Katsuhara, J., T4  
 Katsui, N., T22  
 Katsumura, R., T14  
 Katsumura, S., T23, T18'  
 Katsura, H., A2, A27, A30  
 Kavkova, K., K16  
 Kawabe, N., Y5'  
 Kawaguchi, K., T44  
 Kawaguchi, Y., T23  
 Kawai, K., T15'  
 Kawai, M., A19, T53  
 Kawasaki, I., K24  
 Kawasaki, T., T13'

## Author Index

---

- Kawashima, K., T36  
 Kawashima, S., K3'  
 Kawazoe, Y., K31  
 Kawazu, K., A50, T33, T39  
 Kawazu, M., A24  
 Kazinoti, P.I., Y10'  
 Keck, P.C., A9'  
 Keefer, L.K., K8  
 Keinan, E., Y1  
 Keller, M., A33'  
 Keller-Schierlein, W., A33, Y13'  
 Kellett, M., A31'  
 Kelley, C.J., A2  
 Kelly, J.R., T17  
 Kelly, R.B., T46  
 Kelly, R.C., T1'  
 Kelly, W., Y7  
 Kelsey, J.E., T21, T24  
 Kelso, P.A., A16'  
 Kelstrup, E., Z8'  
 Kemmer, T., A11'  
 Kemp, C.M., X7, X6'  
 Kendall, M.J., Y1'  
 Kennard, O., T27, T45, T49, K2, T9'  
 Kenner, G.W., A17  
 Kenyon, J., A29, T10  
 Kerekes, P., K4  
 Keresztesy, J.C., Y30  
 Kergomard, A., A18, Y6'  
 Kerigan, A., K15  
 Kerling, K.E.T., A10  
 Kern, H.J., T10  
 Kessar, S.V., T49  
 de Keukeleire, D., Y9'  
 Keys, A.J., A11'  
 Keziere, R.J., T28  
 Khalil, M.F., K14  
 Khan, W.A., A10  
 Kharasch, M.S., A27  
 Khastgir, H.N., T42  
 Khatri, H.N., T42  
 Khay, C.Y.S., X9'  
 Khedouri, E., A6  
 Khoung-Huu, F., K36, A4', K3', K10'  
 Khoung-Huu, Q., K36  
 Khurana, R.G., T29  
 Kiang, A.K., T44  
 Kiang, A.N., K11  
 Kidd, D.A.A., A4  
 Kido, F., T27, T28  
 Kiechel, J.R., Y27  
 Kierkegaard, P., T29  
 Kikuchi, T., T47, K5  
 Kim, C.S., A30'  
 Kim, C.U., Y14'  
 Kimland, B., T3, T17'  
 Kimoto, W.I., A12, A34  
 Kimura, H., T17  
 Kimura, S., Y15'  
 Kimura, T., T2'  
 Kimura, Y., Y30  
 Kinashi, H., Y6'  
 King, F.E., A4, A10, T50, T12'  
 King, R.W., K6  
 King, T.J., A10, T45, T50, Y17, Y29,  
     T12', T16', Y14'  
 Kinoshita, M., Y15', Z6'  
 Kinoshita, T., A16', Z7'
- Kinstle, T.H., K4  
 Kirby, G.W., K3, K4, K6, A12'  
 Kirk, D.N., A34'  
 Kirk, G., A4, A31  
 Kirk, L., A10  
 Kirkpatrick, J.L., K27, K2'  
 Kirksey, J.W., K6'  
 Kirmse, W., A27, A33, A41, A44,  
     A51, A5', A26', A28'  
 Kirson, I., T48, T51  
 Kis, Z., Y19, T15'  
 Kishi, T., Y21, Y26  
 Kishi, Y., Y20  
 Kishida, Y., A29, T24, T48  
 Kishimoto, S., A50  
 Kishner, N., T1  
 Kisis, B., A52  
 Kistner, J.F., T4  
 Kitagawa, I., T45, T15'  
 Kitagawa, M., K14  
 Kitagawa, T., A40, K6  
 Kitahara, Y., T34  
 Kitahonoki, K., A47, X5'  
 Kitaigorodsky, A.I., A10'  
 Kitaura, Y., Y12'  
 Kitchens, G.C., T4'  
 Kjaer, A., A8, A12, A23, A33, Z8,  
     A14', Z7', Z8'  
 Kjosen, H., T17'  
 Klasek, A., K1, K20, K23  
 Klaui, H., T8, T29  
 Klein, E., T1, T4, T8  
 Klein, F., T1'  
 Klein, H., A33'  
 Klemm, L.H., A11'  
 von Klemperer, M.E., K22  
 Kloimstein, L., A22'  
 Kloppenburg, C.A., T11  
 Klostermeyer, H., A4'  
 Klötzer, W., K1  
 Kloubek, J., A22, K19  
 Klusacek, H., X8  
 Klyne, W., A2, A37, A53, A57, T19,  
     T43, T55, K3, K10, K12, K13,  
     K14, K19, K21, K22, K23, Y4, Y7,  
     X11, Z8  
 Knabe, J., A40, A55, A36', A39'  
 Knight, D.C., T42  
 Knist, J., A26'  
 Knobloch, G., Y23  
 Knöll, W.M.J., Y14'  
 Knowles, G.D., T13  
 Knowles, W.S., A55  
 Knox, J.R., T24, A9'  
 Kobal, V.M., A21'  
 Kobayashi, K., K35  
 Kobayashi, M., T23, Z7, A11', A29'  
 Kobayashi, N., Y18  
 Kobayashi, T., A24, A37  
 Kobel, H., K17  
 Kobelt, D., A19  
 Koblcová, Z., K11, K15, K16, K20  
 Koch, H.P., A55, A38'  
 Koch, M., K3'  
 Koch, W., A39'  
 Kochetkov, N.K., A12, K22, K24  
 Kocourek, J., C1  
 Koczor, I., K28  
 Kodaira, S., K3  
 Kodama, H., T16  
 Kodama, M., T24, T38, T4'  
 Kodama, Y., Z5'  
 Kodera, K., K18  
 Koekemoer, M.J., K22  
 Koelliker, U., Y8'  
 Koenuma, M., Y6'  
 Koga, K., A11, A17, A11', A29', X4'  
 Kogan, G.A., Y11'  
 Kögl, F., T1  
 Koiso, Y., K24  
 Kojima, K., Y8'  
 Kokke, W.C.M.C., A31, A23', D3'  
 Kolbah, D., A1'  
 Kolbe-Haugwitz, M., T28  
 Kollonitsch, J., A10, A27  
 Kolonits, P., K2  
 Kolosov, M.N., A51, Y16, Y28, Y9',  
     Y11'  
 Komoda, Y., Y13'  
 Komori, T., T13'  
 Kompis, I., K10, K13, K10'  
 Konda, Y., A12'  
 Kondo, S., A4', Y14'  
 Kondo, Y., X10'  
 Konitz, A., Z2'  
 Konno, K., A51  
 Kono, Y., Y30  
 Koop, H., K18  
 Kopecky, K.R., A51  
 Kopp, D., A45  
 Koppes, W.M., A24'  
 Koreeda, M., T48, T58, A7', T17'  
 Koriyama, S., T11'  
 Korman, O., T18  
 Kornfeld, E.C., K17, Y21  
 Kornrumpf, B., A27, A33  
 Korpiun, O., Z4, Z5, Z6  
 Korte, W.D., Z1, A20'  
 Korver, O., A29, A31', A36'  
 Korytnyk, W., Y4  
 Kostic, R.B., T49  
 Kostyanovsky, R.G., A14', A17', Z2'  
 Kosuge, T., Y15'  
 Kotake, M., K24  
 Kotera, K., K6, A25'  
 Kövar, J., A22, K18, K19  
 Kovats, E., T3, T7  
 Kowala, C., K7  
 Koyama, G., C1, T21, Y26, A10',  
     Y14'  
 Koyama, H., C1, T22, T40, T45, T47,  
     K6, K24, K29, Y11, Y18, Y12'  
 Kozima, T., T38, T11'  
 Kozlowski, M.A., A14'  
 Kozuka, M., T9'  
 Krasso, A.F., A10'  
 Kreibich, G., T39  
 Krepinsky, J., T18, T19, T26, T16'  
 Krestinski, V., T6  
 Kresze, G., A22'  
 Kretchmer, R.A., A21'  
 Krieger, C., X6'  
 Krishnamachari, N., K7'  
 Krishnamoorthy, V., T45  
 Krohn, K., K1'  
 Krow, G., X1, X4

## Author Index

---

- Krueger, W.C., Y12', Y14'  
 Kruger, G.J., T42, T13'  
 Kryger, L., A1, A4  
 Kubel'ka, W., K29  
 Kubo, A., K11  
 Kubo, I., T33  
 Kubo, M., Y3'  
 Kubota, T., T15, T17, T33, T54  
 Kuck, A.M., K3, K4  
 Kudo, Y., A51  
 Kudryashova, V.V., Y11'  
 Kuehne, M.E., Y5'  
 Kuffner, U., X9'  
 Kuhn, M., Y7  
 Kuhn, R., A2, A11, Y14, Y5'  
 Kühn, W., T1  
 Kulakov, V.N., A12, K24  
 Kulkarni, K.S., T19  
 Kullnig, R.K., T39, A12'  
 Kulshreshtha, D.K., T15'  
 Kum, K., Y14, Y5'  
 Kumada, M., A41, X9'  
 Kumagai, M., A10'  
 Kuna, M., A19, A32, A52  
 Kundu, N.G., A46  
 Kung, H.P., T33  
 Kunieda, N., Z6', Z7'  
 Kunieda, T., A5, A9', A17'  
 Kunimoto, J., K3, K5  
 Kunishima, M., T9'  
 Kunstmann, M.P., Y30, A8', T13',  
     T14', Y1', Y2', Y4'  
 Kupchan, S.M., T21, T24, T30, T41,  
     K5, K35, K36, Y19, T13', T16',  
     K1', Y10', Y13'  
 Kuritani, M., X4'  
 Kuriyama, K., A23', A38', X5'  
 Kurosawa, E., Y4'  
 Kurtev, B.J., A43  
 Kusaka, T., Y21  
 Kusano, E., K34  
 Kushii, Y., T8'  
 Kusumoto, S., K24, A6', Y14'  
 Kuthan, J., T32, T34  
 Kutney, J.P., K5, T15'  
 Kuwano, D., T7'  
 Kuwano, H., Y1'  
 Kuznicki, R.E., A24'  
 Kuzovkov, A.D., K22  
 Kuzuhara, H., Y30  
 Kyba, E.B., X4'  
 Kyburz, E., A10'  
 La Combe, E.M., A3'  
 Lacombe, L., A25'  
 Lacoume, B., A25'  
 Lacroix, W., A23  
 Ladd, M.F.C., T47, T49  
 Lahey, F.N., T42  
 Laing, M., K1', K7', K8'  
 Laird, W., T42  
 Lajsic, S.D., K9'  
 Lakshmikantham, M.V., K2'  
 Lalonde, R.T., A38, K24, K7'  
 Lam, F.K., Z3  
 Lam, L.K.T., C1'  
 La Manna, A., A20, A21, A22  
 Lambertson, J.A., K7, K8, K10, K21,  
     K26, K28, K29, X7, K6', K9'  
 Lammertsma, K., X11'  
 Lancaster, J.E., T14'  
 Landor, S.R., A6, A8, A12, A13, X1,  
     X1'  
 Lane, J.F., A27  
 Langemann, A., A51  
 Langenbeck, W., A20  
 Langer, E., X6', X8'  
 Langlois, N., K3'  
 Langlois, Y., K4'  
 Lanneau, G.F., Z1, Z1'  
 Lansford, E.M., A11  
 LaPidus, J.B., A21, A17'  
 Lardicci, L., A27, A29, A42, A15',  
     A19', A35'  
 Lardon, A., T48  
 Lardy, H.A., A13  
 Larsen, P.K., A7  
 Larson, D.L., A4, A18'  
 Latham, H.G., T49  
 Lau, N., D3'  
 Lau, P., Y28  
 Lauinger, C., A5  
 Laur, P., A12, Z7  
 Lavagnino, E.R., Y29  
 Lavie, D., T48, T51, T13'  
 Law, D.A., K25  
 Lawrie, W., T46  
 Lawson, A., A20  
 Lawson, W.B., A19, A29  
 Leach, M., A18', Y12'  
 Leander, K., K1, A11', K5', K7', K9'  
 Leandri, G., X5  
 Leard, M., Z1  
 Leaver, C.J., A11'  
 Lecomte, C., X9'  
 Lederer, E., T34, T42  
 Ledon, H., A36'  
 Ledouble, G., K9  
 Lee, C.M., K9, K10  
 Lee, E., K2'  
 Lee, G.K., K2  
 Lee, J., Y15  
 Lee, K.-H., T9'  
 Lee, K.K., A36', A39'  
 Lee, K.S., Z7  
 Lee, L.F.H., A33  
 Lee, Y.K., A7'  
 Leeding, M.V., T42  
 Leeman, H.G., K17  
 Lefebre-Soubeyran, O., K30  
 Le Forestier, J.-P., A4', K10'  
 Le Goff, M-T., K3'  
 Legrand, M., K9  
 Lehner, H., X6', X8'  
 Leistner, E., D2  
 Leithe, W., A19, A21, A17'  
 Leitich, J., A32, Y26  
 Leme, L.A.P., K14  
 Le Men, J., K9, K12, K13, K3'  
 Le Men-Olivier, L., K3'  
 Lemieux, R.U., A1, A6, C1  
 Lemmich, E., Y1  
 Lemmich, J., A3, A7, T57, Y1  
 Lenhert, P.G., T7  
 Lentz, P.J., T13  
 Leonard, N.J., K21  
 Leonardsen, R., A31  
 Leppard, D.G., T7'  
 Le Quesne, P.W., T13, K4'  
 Leroux, P.J., A13  
 Lesiak, K., Z3'  
 Lessard, J., T50  
 Letcher, R., K7  
 Letourneau, F., K19, X9'  
 Letsinger, R.L., A27  
 Levai, A., K4  
 Levene, P.A., A1, A6, A8, A12, A14,  
     A19, A22, A29, A32, A41, A42,  
     A57, A26'  
 Levisalles, J., K2, T5'  
 Levy, J., K9, K12, K13, K3'  
 Lewin, N., T29  
 Lewis, A., T12  
 Lewis, D.C., A5'  
 Lewis, G.E., X6  
 Lewis, R.A., Z4, Z5, Z6  
 Ley, R.V., A40'  
 Ley, S.V., A34'  
 Li, L.H., Y14'  
 Liaaen-Jensen, S., T17', T18'  
 Libiseller, R., A31  
 Lichtenstein, N., A9  
 Lichti, H., T35  
 Liebermann, C., K28  
 Lienert, J., X1'  
 Lightner, D.A., A25', A33', X3', X6'  
 Lim, F.Y., T44  
 de Lima, O.G., T45  
 Limburg, W.W., Z1  
 Lin, C.H., Y8'  
 Lin, G.H.Y., T3', T13'  
 Lin, L-H., X2  
 Lin, L.J., D2'  
 Lincoln, F.H., Y8'  
 Lindberg, G.W., A14'  
 Lindner, H.J., T3'  
 Linde, H., T33  
 Van der Linde, L.M., T9  
 Lindquist, A., A14'  
 Lindqvist, S., A14'  
 Linek, A., T18, T22, T25  
 Ling, N.C., T50, K13  
 Link, K.P., A26', K10  
 Linstead, R.P., Y23  
 Linstedt, G., A5'  
 Linstedt, S., A5'  
 Linstrumelle, G., A36'  
 Lipscomb, W.N., T32, K15, K19, K35  
 Listowsky, I., D2  
 Littlewood, P.S., T40, T48  
 Liu, C., T16'  
 Liu, C-M., Y6'  
 Liu, S., T56  
 Liu, S.J., Y11  
 Lively, D.H., Y24  
 Locke, D.M., K32  
 Loder, J.D., X1  
 Lods, L., T35  
 Loeffler, P.K., A27  
 Loew, P., T13  
 Loewenthal, H.J., T22  
 Loh, S.K., K11  
 Löliger, L., D3'

## Author Index

---

- Lollar, D., A9'  
 Longmore, R.B., A55, K30  
 Lopez-Castro, A., C1'  
 Los, M., T12'  
 Losacco, V., A30'  
 Losee, K.A., A20  
 Losman, D., T3', T8', T10', K7'  
 Love, W.E., A30  
 Lovell, F.M., Y19, Y10'  
 Loven, J.M., A1  
 Lowe, G., X1  
 Lowe, L.A., K2'  
 Lowry, J.B., Y1'  
 Lowry, T.H., A13'  
 Lucas, H.J., A13  
 Luche, M.J., A29'  
 Luckenbach, R., Z5  
 Luger, P., Y10'  
 Luhan, P.A., T9'  
 Luibrand, R.T., A46  
 Lukacs, G., K36  
 Lukes, R., A22, K18, K19  
 Lundin, R.E., A7, A26  
 Lüning, B., K1, K5'  
 Lupinacci, D., A15'  
 Lustig, R.S., D1'  
 Lüthy, J., D2  
 Lwowski, W., A29, Y2  
 Lyle, G.G., A23, K8, X4  
 Lyle, R.E., A11  
 Lynen, F., A19, A28, D1  
 Lyons, C.W., T51  
 Lythgoe, B., T40, T48, A38'
- Maat, L., A10, K19  
 Mabry, T.J., T9'  
 Macbeth, A.K., T4  
 Macchia, B., A22, A23, A52  
 Macchia, F., A52, A1'  
 Macdonald, A.L., Y10'  
 MacDonald, C.G., A16  
 MacDonald, D.L., A16  
 MacDonald, P.L., Y7  
 Mackay, A.F., K3'  
 Mackay, I.R., T47  
 Mackay, M.F., K4, K5, K31, K6'  
 MacKellar, F.A., Y20, T1'  
 MacLachlan, F.N., K2'  
 MacLean, D.B., K25, K7'  
 MacLean, H., Y7  
 MacLeod, J.K., Y1'  
 MacLeod, R., A19'  
 MacMillan, J., Y17, T11', T15', K6', Y5'  
 MacSweeney, D.F., T5, T27, T28  
 Maddox, M.L., A13'  
 Maebayashi, Y., T19  
 Maeda, K., C1, Y26, A4', A10', T9', Y14'  
 Maeda, M., T21  
 Maeda, T., T14, K31  
 Machr, H., A18', Y12'  
 Magalhaes, M.T., Y4  
 Magerlein, B.J., Y21  
 Magnus, P.D., T8, T2'  
 Mahadevan, V., A7'  
 Mahajan, J.R., T32  
 Mahajan, R.K., T49
- Mahes-Wari, M.L., T23  
 Mahishi, N., A20  
 Mahmood, S., A13', A22'  
 de Maindreville, M.D., K13  
 Majerski, Z., A12  
 Makleit, S., K4  
 Mallams, A.K., T55  
 Mallikarjunan, M., A5, A8, A20  
 Mallory, F.B., T44  
 Mamuzic, R.T., A3'  
 Manchand, P.S., T37, Y11, T13'  
 Manchanda, A.H., Y6  
 Mandava, N., K28  
 Mandel, N., Z4  
 Mander, L.N., T12'  
 Manfredotti, A.G., K16  
 Mangia, A., Y20  
 Mangoni, I., T37  
 Mangoni, M., T34  
 Manning, R.E., T13  
 Manohar, H., K14  
 Manor, P.C., X2  
 Manske, R.H.F., K1'  
 Mansuy, D., A33'  
 Manville, J.F., T2  
 Manwaring, D.G., A8, A24  
 Marchant, M.J., X6'  
 Marchesini, A., T4', T5'  
 Marckwald, W., A29  
 Marcucci, F., A1', A4', D1'  
 Maric, S., A45  
 Marion, L., K21  
 Marion, L.F., A5'  
 Marker, R.E., A8, A26'  
 Markey, S., K13  
 Markov, I.V., A14', A17'  
 Marlewski, T.A., A24'  
 Marlier, M., A17'  
 Marlow, W., Y17  
 Marnett, L.J., A40  
 Marquarding, D., X8  
 Marquardt, A., K28  
 Marquet, A., A29'  
 Marsh, M.M., Y24  
 Marsh, R.E., C1, C1'  
 Marsh, W.C., K31  
 Marshak, M.L., K14  
 Marshall, D., A54, A55  
 Marshall, J.A., T2'  
 Marsili, A., A5'  
 Marta, C., Y22  
 Martelli, P., A1', A4', D1'  
 Martin, D.G., T30, Y12'  
 Martin, J.C., Z9'  
 Martin, L.L., Y12'  
 Martin, R.B., A16', A23'  
 Martin, R.H., K11, X6'  
 Martin, R.J.L., D1  
 Martin, T.I., K7'  
 Martin, W.F., K12  
 Martinelli, E.M., K3'  
 Martinelli, J.E., T5'  
 Martinez, N., Z1'  
 Marukas, J., A15  
 Marumo, F., A19, T40, Y26, Y30  
 Marumo, H., Y4'  
 Marumo, S., Y18  
 Marusic, R., Y27
- Maruyama, M., T15, T24  
 Marx, J.N., T22, T32  
 Marxer, A., T42  
 Maryanoff, B.E., Z5, Z4', Z7'  
 Maryanoff, C.A., A13', Z4', Z7'  
 Marzilli, L.G., A11  
 Masaki, N., T15, T39, T47, K26, K29, T13', K3', Y15'  
 Masamune, S., A34, K22, K35, Y14'  
 Masamune, T., A26, T12, T22, K35, K9'  
 Masilamani, D., A13'  
 Maskens, K., A16'  
 Maslen, E.N., T35, T43, T44, Y29, T14'  
 Mason, D.J., Y21  
 Mason, J., X11'  
 Mason, S.F., A15, K1, K26, Y15, X1, X6, X7, X10, X11, X4', X6', X11'  
 Masse, J., Z1'  
 Massey-Westrop, R.A., T12'  
 Masterman, S., A1, A11, A12, A22, A51, A13'  
 Masui, Y., A25  
 Matell, M., A12, A28  
 Math, V.B., Y24  
 Matheson, N.K., A16  
 Mathew, M., K1'  
 Mathieson, A.McL., T13, T44, K3, K4, K5, K18, K22, K26, K29, K31, Y24, K3', K6', K7', K9'  
 Matikkala, E.J., Z7  
 Matsubabayashi, T., T12'  
 Matsubara, I., Y12'  
 Matsubara, Y., A33'  
 Matsueda, S., T22  
 Matsui, M., A3', Y11'  
 Matsumoto, K., A5'  
 Matsumoto, T., A2, T30, T52, Y20, T11', T12', K8', K9'  
 Matsumoto, M., Y11'  
 Matsumura, H., K8  
 Matsuo, A., T18, A33', T8'  
 Matsuo, M., Y3'  
 Matsuo, T., A3'  
 Matsutani, S., K24  
 Matsuura, T., T19, T52, T53, T8'  
 Matta, M.S., A22'  
 Mattauch, H., Y3  
 Mattern, D.L., D2  
 Matthes, K.C., K2  
 Matz, M.J., T41  
 Matzinger, P., A6'  
 Mauli, R., T23  
 Mauperin, P., K13  
 Maurer, B., T19, T7', K7'  
 Mauri, F., A1', A4', D1'  
 Maxwell, I.E., A11  
 Maxwell, J.L., D2  
 Maycock, C.D., A22'  
 Mayer, H., T56  
 Mayo, D.W., T25, T27  
 de Mayo, P., T18, T21, T28, T43, T53  
 Mazengo, R.Z., X6, X4'  
 Mazur, U., X2  
 Mazur, Y., T49  
 Mazza, F., Y13'

## Author Index

- 
- Mazzarella, L., Y19, T15'  
 Mazzocchi, P.H., D1'  
 McAlpine, J.B., Y2'  
 McBride, J.M., A19'  
 McCabe, P.H., T37  
 McCapra, F., T35, T36  
 McCarty, J.E., A49  
 McCasland, G.E., A16, A26, A31  
 McCaully, R.J., A5  
 McChesney, J.D., T33  
 McClure, R.J., T20, K5  
 McConnell, J.F., T13  
 McCreadie, T., T34  
 McCrindle, R., T34, T37, T52  
 McDonald, C.E., K32  
 McDonald, F.J., Y4'  
 McEachan, C.E., T39  
 McElvain, S.M., A36, A38, T14, T15  
 McEvoy, F.J., K10'  
 McEwen, R.S., T3', T9'  
 McGahren, W.J., A8', T14', Y1', Y2', Y4', Y10'  
 McGeachin, S.G., Y25  
 McGhie, J.F., T42, T50  
 McGinn, F.A., X6'  
 McGlotten, J., A17  
 McGrath, M.J.A., T43  
 McGrew, J.G., D2'  
 McKee, J.R., A13'  
 McKennis, H., K20  
 McKervey, M.A., X3'  
 McKillop, T.F.W., T6'  
 McLaughlin, G.M., T47, Y27  
 McLeod, W.D., T23, T27  
 McLick, J., Z1'  
 McMillan, I., A9'  
 McMurry, J.E., T28  
 McMurry, T.B.H., T19  
 McNab, A.S., T46  
 McNiven, N.L., T5  
 McOmie, J.F.M., Y13  
 McPhail, A.T., C1, T20, T21, T24, T31, T35, T39, T40, T48, T52, K5, K8, K11, K20, K29, Y15, Y17, Y19, Y28, X9, T9', K8'  
 McQuillin, F.J., T20  
 Mea, D., T8  
 Mechlinski, W., Y26  
 Mechoulam, R., T5  
 Mechtler, H., X3  
 Meck, R., Y21, A28'  
 Medcalfe, T., T40  
 Meehan, G.V., K28  
 Meek, B., K4  
 Mehta, A.S., A3, X2  
 Mehta, G., T27, T8'  
 Mehta, P.P., Y13  
 Meienhoffer, J., A6'  
 Meinwald, J., T12, K8'  
 Meister, A., A8, A4'  
 Meister, W., D1, D1'  
 Melera, A., A34, T42, T14'  
 Melillo, J.T., A12, Z7  
 Mellor, J.M., T35, T51  
 Melquist, J.L., X3'  
 Meluch, W.C., A18, A32  
 Melville, D., T36, T38  
 Melville, D.V., Y30  
 Menard, E., T46  
 Menicagli, R., A42, A15', A19', A35'  
 Menshikov, G.P., K22  
 Merchant, J.E., K2  
 Mercier, D., T42  
 Mercker, H-J., T3'  
 Meric, R., A20  
 Merlini, L., T9, Y2, Y6  
 Merritt, L.L., K21  
 Meshulam, H., T51  
 Messing, A.W., Z7  
 Meulman, P.A., Y12'  
 Meyer, A., A25', X2'  
 Meyer, A.S., T58  
 Meyer, C.E., A8  
 Meyer, E., Z3  
 Meyer, G.M., A29  
 Meyer, K., T49  
 Meyerhofer, A., A10'  
 Meyers, A.I., A16', A22', A26', A32'  
 Mhasalkar, S.E., Y7  
 Mhaskar, V.V., T29  
 Miana, G.A., A24  
 Michael, K.W., Z1  
 Michelski, J., Z5, Z3'  
 Michl, K., A18'  
 Miettinen, J.K., A28, A57  
 Mihailovic, M.L., A3'  
 Mihelich, E.D., A16'  
 Mikhail, A.A., A17  
 Miklos, D., Y27  
 Mikolajczyk, M., Z3', Z4', Z6'  
 Milborrow, B.V., T17'  
 Millar, P.G., A49  
 Miller, B.J., A6, A8, A12, A13, X1  
 Miller, E., Y16  
 Miller, R.W., K8'  
 Milliet, A., K36  
 Milligan, B., Y8  
 Mills, H.H., K14, K29, Y25  
 Mills, J.A., A57, K19  
 Mills, J.S., T51  
 Mills, R.W., T11, T28  
 Milne, G., Y13  
 Minale, L., T57, K17, T3', T14', T15', Y10'  
 Minamida, I., A50  
 Minato, H., A28, T18, T19, T20, T21, T25, K24, Z7, T6', Y11'  
 Mincione, E., T50  
 Minkin, J.A., A30  
 Mioskowski, C., A28'  
 Mirando, P., T13'  
 Mironov, A., T25  
 Mirrington, R.N., T35  
 Mishra, A., A6  
 Mishra, R., T37  
 Mislow, K., A12, A18, A22, A32, A36, A46, A47, A48, T8, K4, X5, X6, X10, Z4, Z5, Z6, Z8, D2', X6', X9', Z2', Z4', Z5', Z7', Z8'  
 Mistysyn, J., Y7'  
 Mita, I., A20  
 Mitamura, S., Z7'  
 Mitchard, D.A., A35  
 Mitchell, G.N., A28'  
 Mitchell, M.J., K3  
 Mitra, R.B., A13  
 Mitscher, L.A., A21, T36, Y29, K9', Y10'  
 Mitsuhashi, H., K35, Y14  
 Mitsui, R., K6  
 Mitsui, S., A40, A51, K4  
 Mitsui, T., A50, T33, T39  
 Mittal, R.S.D., A33  
 Mittenzwei, H., Y23  
 Miura, I., T7'  
 Miura, R., A24, A25  
 Miwa, T., A16', A30', A35'  
 Miyaki, T., T12'  
 Miyakoshi, H., T11'  
 Miyamoto, M., T15'  
 Miyamoto, S., Y30  
 Miyano, M., Y8'  
 Miyasaki, M., T24  
 Miyawaki, M., T21  
 Miyazaki, S., A47, X5'  
 Miyoshi, M., A5'  
 Mizzak, S., T30  
 Mizzak, S.A., Y12'  
 Mizuno, H., A40, A51  
 Mizuno, K., Y21  
 Mizuno-Tsukuda, Y., T21  
 Mizuta, K., T13'  
 Mnatsakanyan, V.A., K20  
 Mo, F., T16'  
 Mo, L., Y6  
 Mochizuki, M., A18'  
 Mock, J., Y2'  
 Modena, G., Z9'  
 Moffett, R.H., T28  
 Mohr, G., A10'  
 Moir, M., T45  
 Mokry, J., K13  
 Moldowan, J.M., D2'  
 Molin-Case, J.A., A9, A21  
 Mollov, N.M., K21  
 Momber, F., A3  
 Momose, T., K18  
 Monache, F.D., T45, Y3  
 Moncrief, J.W., C1, K15, Y24, Y30, A18'  
 Mondelli, R., Y28, T14'  
 Mondon, A., T16', K1'  
 Money, T., T5, T11, T28  
 Moniot, J.L., K1, K1'  
 Montanari, F., A6', Z5', Z6', Z7'  
 Montaudo, G., A23'  
 Montgomery, J.A., A9  
 Monti, L., A52  
 Moorcroft, D., K30  
 Moore, H.W., Y24  
 Moore, J.A., T49  
 Moore, M., K9, K35  
 Moore, R.E., A44, Y7'  
 Moore, W.R., X1, X2, X1'  
 Morales, J.J., Y17  
 Morandi, C., X10  
 Morehead, S.R., K8'  
 Morell, J.L., A9'  
 Morell, S.A., A13  
 Moretti, I., A21, A22, A23, Z2', Z7', Z9'  
 Morfaux, A-M., K3'  
 Morgan, J.W., K19, A24'  
 Mori, A., Y3

## Author Index

---

- Mori, H., T48  
 Mori, K., A11, A3', A4', A11', T17', T18', Y3'  
 Mori, Y., K35  
 Morimoto, A., T44  
 Morimoto, K., K5  
 Morimoto, S., A10'  
 Morin, R.B., T39, Y29  
 Morinaga, K., K24  
 Morinaga, N., Y1'  
 Morisaki, M., T41  
 Morisaki, N., T1'  
 Morita, K., T45  
 Moriyama, M., K6  
 Moriyama, Y., T7', T16'  
 Morlacchi, F., A30'  
 Morofushi, N., T11'  
 Morozumi, S., K3  
 Morris, A.J., A20  
 Morris, C.J., A9, A29, A41, A42, A57, Z7  
 Morris, D.G., A46  
 Morrison, A., T29  
 Morrison, G.A., A12, Y12  
 Morrison, G.C., K7  
 Morsingh, F., K10  
 Mortimer, P.I., A10  
 Morton, G.O., T13', T14', Y1', Y4'  
 Morton, J., A17  
 Morton, R.B., A11  
 Moscowitz, A., T8, Y23  
 Mose, W.P., T55, K22, K23, Y30  
 Mosettig, E., T35, T49  
 Mosher, H.S., A12, A22, A27, A41, D1, A3', A13', A19', A28', D1'  
 Moss, G.P., T54, T55  
 Moss, R.A., A8'  
 Mostad, A., A5  
 Mostowicz, D., Z2'  
 Motherwell, W.D.S., T27, K2  
 Motl, O., T2'  
 Mozingo, R., A4, A8, Y30  
 Mueller, R.A., Y29  
 Muhammad, S., T51  
 Muhi-Eldeen, Z., A20  
 Mukiyama, T., A16'  
 Mulheim, J., Y13  
 Mulholland, T.P.C., Y17  
 Mullen, P., Y4'  
 Mullenback, G., Y14.  
 Müller, E., K18  
 Müller, W., X3'  
 Müller-Enoch, D., A31  
 Mumukata, K., T37  
 Munavalli, S., K18  
 Munk, M.E., Y30  
 Muntwyler, R., Y13'  
 Muntz, R.L., Z3  
 Murai, A., A26, T22, K35  
 Murai, F., T15  
 Murai, K., Y25  
 Murakami, Y., A17  
 Muraoka, Y., A10', A14'  
 Murata, T., T45, T15'  
 Muroi, M., A24, Y21  
 Murphy, C.F., K7  
 Murphy, R.C., T58  
 Murphy, S.T., Y2'
- Murray, R.D.H., T34, T37  
 Murray, R.K., Z4, Z6  
 Mussini, E., A1', A4', D1'  
 Musso, H., D3'  
 Mustich, G., K3'  
 Musu, C., Y13'  
 Myers, C.W., K26  
 Mynderse, J.S., Y7'  
 Nacco, R., A15'  
 Naef, H., T57  
 Naegeli, P., Y29  
 Naemura, K., A20', X10', X11'  
 Naf, U., T35  
 Nagahama, S., T26, T4'  
 Nagai, M., T3, T51, Y3'  
 Nagai, U., A19, Y14  
 Naganawa, H., A7', A10', T9', Y14'  
 Nagao, Y., T33  
 Nagarajan, K., A45, T23, K12, Y9'  
 Nagarajan, R., Y24, K2'  
 Nagasampagi, B.A., T18  
 Naik, V.G., T18, T25  
 Nair, P.M., Y9  
 Naito, T., X4'  
 Nakadaira, Y., T44  
 Nakagawa, A., Y11'  
 Nakagawa, M., A51, X3, A20', X2', X4', X11'  
 Nakagawa, T., T22  
 Nakagawa, Y., C1, K13, A20', X11'  
 Nakai, H., T45, Y18  
 Nakajima, M., T15  
 Nakajima, S., Y13  
 Nakajima, Y., A8'  
 Nakamura, E., T37  
 Nakamura, H., A10', A14', A20', A22', T9', Y4'  
 Nakamura, M., T25  
 Nakamura, S., T23  
 Nakamura, Y., T13  
 Nakanishi, K., T30, T35, T36, T38, T44, T48, T58, K1, Y18, T7', T11', T17', K1', K2'  
 Nakanishi, T., T45  
 Nakanishi, Y., A44, T44, X2  
 Nakano, T., A53, T13, K18, K36  
 Nakano, Y., X2'  
 Nakashima, R., K30  
 Nakatsuka, T., T29  
 Nakayama, M., A33', T8'  
 Nakayama, Y., T41, T9'  
 Nakazaki, M., A20, A24, A25, T21, Y1, Y6, A20', X7', X8', X10', X11'  
 Namba, S., T1'  
 Nanaumi, K., T22  
 Nangle, B.J., Y4  
 Naps, M., Y6  
 Naranjo, J., K3'  
 Narayanan, C.E., T19  
 Narayanan, C.R., T33, T53, K35  
 Narayanan, P., T38, T39, A18'  
 Nardelli, M., Y20  
 Narita, H., T4'  
 Narita, S., Y15'  
 Naruto, S., K3'  
 Nasini, G., Y2, Y6  
 Nasipuri, D., D1'
- Nasyrov, S.-M., K4'  
 Natori, S., T12, T43, T44, Y7'  
 Natsume, N., T33  
 Naumann, K., Z4, Z5, Z6  
 Navari, F., A15'  
 Naves, Y.R., T14, T16  
 Nawata, Y., Y4'  
 Naya, K., T17, T23, Y25  
 Nayak, U.R., T28, A36', T10'  
 Needham, P.H., A35'  
 Neelakantan, L., A21  
 Neidle, S., A26, C1, T21, Z8, T9', K8'  
 Neilsen, B.E., A3, A7  
 Neilson, D.G., A19, A13', A22'  
 Nelson, D.M., Y30  
 Nelson, N.R., K4  
 Nelson, W.L., A11'  
 Nerdel, F., A37  
 Neuberger, A., A17  
 Neudeck, H., X2'  
 Neuss, N., K15, Y24, D3'  
 Nevitt, T.D., A38  
 Newkome, G.R., A56, K30  
 Newman, H., T35  
 Newman, P., X6  
 Ng, A.S., Y2  
 Nicholas, A.F., T41  
 Nicholson, J.A., T58  
 Niemeyer, J., Y28  
 Niggli, A., Y1  
 Nikolai, F., A4  
 Nisbet, M., T53, X5  
 Nisbet, M.A., T21  
 Nishibe, S., Y7  
 Nishida, T., Y18, T10'  
 Nishihata, K., A13', Z5', Z9'  
 Nishikawa, H., T12, T36  
 Nishikawa, M., A50, T45, K5, Y21, Y26, Y28, A10', T15'  
 Nishio, K., K25  
 Nishio, M., A13', Z5', Z9'  
 Nishioka, I., K1'  
 Nishioka, S., A36  
 Nishioka, T., T13  
 Nishiyama, A., T22  
 Nishiyama, K., A27'  
 Nitta, I., T23, T45, K5, Y25  
 Nivellini, G.D., A20'  
 Niwa, M., T22, T47  
 Niyogi, S.K., Y7'  
 Nkunika, D.S., K26  
 Noack, K., A10'  
 Nobuhara, M., Y11'  
 Nockolds, C.K., Y24  
 Noda, T., Y17, Y25  
 Noguchi, M., Y15'  
 Noguchi, S., A50  
 Nokami, J., Z6', Z7'  
 Nomura, H., A10'  
 Nomura, K., K3, K13  
 Nonaka, G., K1'  
 Nordman, C.E., T21  
 Norin, T., T3, T6, T7, T29, T4'  
 Noro, T., Y1'  
 Northolt, M.G., T11  
 Norton, D.A., T32, T47  
 Norton, K.B., T50  
 Nouaille, A., D1, D1'

## Author Index

---

- Novak, C., T22  
 Novak, E.R., A6, A3'  
 Novotny, L., T23  
 Nowacki, W., K7  
 Noyce, D.S., A18, A38  
 Nozaki, H., A19, A44, X2, T8'  
 Nozoe, S., T22, T30, T32, T41, T1'  
 Nozoe, T., T20, T25  
 Nudelman, A., Z6, Z6'  
 Nugent, M.J., X7', X8'  
 Nugteren, D.H., Y8'  
 Nulu, J.R., A5  
 Nwaji, N.M., T52  
 Nyberg, S.C., Z1'  
 Nyfeler, R., T1'  
  
 Obayashi, M., A50  
 Oberhansli, W.E., T47, K31, K10'  
 O'Brien, J., K3, K2'  
 O'Brien, R.E., X5, D2'  
 Occolowitz, J.L., K8, K12  
 Ochiai, A., Y15'  
 Ochiai, E., K8, K24  
 O'Connell, A.M., T35  
 O'Connor, S., C1'  
 Oda, J., A24, A14', A27'  
 Oda, K., K29  
 Oda, O., T1', Y8'  
 Ode, R.H., T37  
 Odom, H.C., T7'  
 O'Donnell, E.A., T49  
 O'Donovan, G.M., K24  
 Oehl, R., A37'  
 Oesterlin, R., Y29  
 Ogawa, H., T12  
 Ogawa, Y., Y26  
 Ogihara, Y., Y18, Y10'  
 Ogura, F., A20', X4', X11'  
 Ogura, K., A24  
 Ogura, M., T38  
 Oh, Y.L., T44  
 Ohashi, M., T30  
 Ohashi, Y., T9'  
 Ohgi, T., Y14'  
 Oh-hashi, J., A24  
 Ohhira, H., K4'  
 Ohkura, T., T9'  
 Ohloff, G., A36, T3, T4, T5, T7, T8,  
     T16, T19, T36, T54, T7', K7'  
 Ohno, K., K29  
 Ohno, M., A35, A37, A54, A4', T1',  
     Y5', Y14'  
 Ohnsorge, U., Y17  
 Ohrt, J.M., A26, K24  
 Ohrui, H., Y30, Y2'  
 Ohsawa, T., T51  
 Ohta, M., K3  
 Ohta, T., T38, T53  
 Ohta, Y., T6, T18  
 Ohtani, Y., K11  
 Oishi, Y., Z7  
 Oka, Y., K8  
 Okabe, K., T40  
 Okabe, T., K8'  
 Okada, Y., Y4'  
 Okamoto, M., Y5'  
  
 Okamoto, T., K25, K31, Y11'  
 Okamoto, Y., K5  
 Okaya, Y., K4, Z1  
 Oken, A., T7  
 Okigawa, M., T30  
 Okruszek, A., Z5, Z3'  
 Okuda, S., A26, T41, T50, K21, K24,  
     K25  
 Okuda, T., K35, Y17  
 Okugun, J.I., T52  
 Okuno, T., T11'  
 Olagbemi, E.O., T52  
 Olander, C.R., K4  
 Olin, S.M., A1, C1  
 Olivier, A., A25'  
 Olivier, L., K12, K13  
 Ollis, W.D., Y1, Y3, Y4, Y5, X11'  
 O'Loughlin, G.J., A12'  
 Omelanczuk, J., Z3', Z4'  
 Omura, S., A12', Y4', Y11'  
 O'Murchu, C., A40  
 Ona, H., T38  
 Onaka, T., K31  
 Onan, K.D., Y28, T9'  
 Onda, M., A12'  
 Ong, E.C., X8'  
 Onoprienko, V.V., Y11'  
 Onore, M.J., T10  
 Oonk, T.J., T11  
 Oosterhoff, L.J., T3'  
 Openshaw, H.T., K2  
 Opferkuch, H.J., T39  
 Opliger, C.E., A9  
 Oppolzer, W., A32, Y26, Y29, K6'  
 Orban, I., Y9  
 Ord, M.R., A11'  
 Orezzi, P., Y28  
 Organ, T.D., T47  
 Oritani, T., T17'  
 Orr, R.K., A4', A8'  
 Orsini, F., T24, T7', T9'  
 Osaki, K., T15, T53, K5, K29, T13',  
     K3'  
 Osawa, T., T9'  
 O'Shea, T., T49  
 Osiecki, J., A39, A55, T42  
 O'Sullivan, A.M., Y5  
 Otake, N., A9, Y26, Y6'  
 Otani, G., A39'  
 Otani, N., T17  
 Ott, H., A9, K17  
 Ottersen, T., A5  
 Ottolino, A., A10'  
 Ouannes, C., A41, A42  
 Ourisson, G., T23, T25, T27, T28,  
     T29, T35, T51, T8'  
 Ovakimian, G., A19  
 Overberger, C.G., A29, A38, A23'  
 Overton, K.H., T32, T34, T36, T38,  
     T44, T52  
 Overwein, H., K21  
 Owellen, R.J., K13  
 Owen, J.D., A35'  
 Owen, L.N., A12, A14  
 Oyakawa, R.T., A14', X9'  
 Oyeo, S., K29  
 Ozainne, M., T1'  
 Ozeki-Minakata, K., X4'  
  
 Pacak, J., C1  
 Pachaburkar, R.V., T53  
 Pachler, K.G.R., Y6  
 Padilla, J., T1, T27  
 Page, A.C., A11  
 Page, C.B., K29  
 Page, H., K21  
 Paget, H., K21  
 Pagnoni, U.M., T40, T5'  
 Paice, M.G., T7'  
 Pailer, M., A31  
 Pais, M., K30  
 Paknikar, S.K., T10, T19  
 Pakrashi, S.C., T45, Y7'  
 Pal, A., T45  
 Palenik, G.J., K1', K2'  
 Palerimiti, F.M., A36  
 Palluy, E., T1'  
 Palm, J.H., T11  
 Palm, O., A28  
 Palmade, M., T8'  
 Palmer, K.H., K29  
 Palmer, K.J., Z7  
 Palmer, R.A., K2'  
 Palmisamo, G., T16'  
 Pandey, R.C., T37  
 Panetta, C.A., Y29  
 Papanikolau, N.E., D3'  
 Papariello, G.J., K11  
 Paquette, L.A., A22, A34'  
 Para, M., Z3', Z4'  
 Pareollo, J., K18  
 Park, R.J., T17, T1', T3'  
 Parke, T.V., Y21  
 Parker, G.A., Z1  
 Parker, W., T6'  
 Parkes, A.S., X2  
 Parsons, P.G., T13, K2  
 Parthasarathy, P.C., A4, T23, K2'  
 Parthasarathy, R., A5, A26, C1, K24  
 Partridge, J.J., A25'  
 Pascard-Billy, C., K10, T7', Y6'  
 Pascoe, J.D., Z1'  
 Pascu, E., A27  
 Pasto, D.J., A44, X11'  
 Pasupathy, V., Y10'  
 Patchett, A.A., A17, T46  
 Patel, H., A18'  
 Patel, M.B., K13, K14  
 Patil, F., T23  
 Patil, V.D., T10'  
 Paton, A.C., Y21  
 Pattabhiraman, T., T16'  
 Patterson, A.L., A30  
 Patterson, W.I., A4  
 Paukstellis, J.V., T8, T26  
 Paul, I.C., T27, T37, T58, Y11, Y16,  
     Z3, T13', Y14', X5'  
 Paul, R., A12'  
 Pauling, P., K30, A10', A22'  
 Paulus, E.F., A19, Y29  
 Paulus, H., A9  
 Pavlis, R.R., A5'  
 Pawson, B.A., T2  
 Pecher, J., K11  
 Peck, G.Yu., Y16  
 Peddle, J.D., Z2  
 Pedersen, P.A., Y1

## Author Index

---

- Pederson, J., A18  
 Pederson, L.D., D2'  
 Peerdeman, A.F., A1, K12, Y13, Z3,  
     A40'  
 Pelizzi, G., Y20  
 Pelizzoni, F., T40  
 Pelletier, S.W., K32, K33, K9'  
 Pelosi, E.T., X4  
 Pelter, A., Y3, Y6, Y7, Y4'  
 Penco, S., Y28  
 Penrose, A.B., T6'  
 Pepinsky, R., A4, K4, Z1  
 Perciaccante, V., A12', A19'  
 Perdue, R.E., T37  
 Pereira, W.E., A41  
 Perezamador, M.C., T36  
 Perkins, R.I., D3'  
 Perlat, M., A19'  
 Perold, G.W., T12, Y6  
 Peruzzotti, G., Y8'  
 Pesnelle, P., T8'  
 Petcher, T.J., K16, K30, Y7, A10',  
     T15', Y6', Y12'  
 Peter, H., A20  
 Peter, M.G., Y9'  
 Peters, H.M., A12, A22  
 Petersen, M.R., A33, A58  
 Petru, F., T32, T34  
 Petržilka, T., T5  
 Pettersen, R.C., T9'  
 Petterson, K., A41, A43, A48, A50  
 Pettit, G.R., T37, T49  
 Pettus, J.A., A44, Y7'  
 Peyer, J., T49  
 Pezzanite, J.O., Y28, Y12'  
 Philbin, E., A13'  
 Phillips, D.A.S., A11  
 Phillips, H., A29  
 Phillipson, J.D., K9  
 Piatelli, M., K17  
 Pienkowski, J.J., A24'  
 Piers, E., K15, T28  
 Piers, K., K25  
 Pietrasanta, Y., A37'  
 Pietsch, H., A19, A13'  
 Pigg, C.M., A11'  
 Pignolet, L.H., X5  
 Pijewska, L., K4  
 Pike, J.E., Y8'  
 Pilar, F.L., D3'  
 Pilgrim, W.R., A25'  
 Pilotti, A., T29, T10'  
 Pilotti, A.M., K7'  
 Pinar, M., K16  
 Pinder, A.K., T35  
 Pinder, A.R., T23, K29, T7'  
 Pines, S.H., A14'  
 Pinhey, J.T., T21  
 Pini, D., A15'  
 Pino, P., A27  
 Pioch, R.P., Y29  
 Piotrovich, L.A., Y16  
 Piozzi, F., T14'  
 Pirkle, W.H., Z3, Z6', Z8'  
 Pitt, C.G., A14, A35  
 Pittman, M.P., A29  
 Pizzolato, G., A9', A32'  
 Plat, M., K13, K3'
- Platt, R., K10  
 Plattner, J.J., A3, K6  
 Plattner, P.A., T8, T29  
 Pletcher, J., Y11'  
 Plieninger, H., Y23  
 Plisch, J., A36'  
 Pohland, A., A18'  
 Pointer, D.J., T39  
 Poisson, J., K9, K10  
 Polgar, N., A16', A28'  
 Poling, M., T39  
 Pollard, D.R., T47  
 Polonsky, J., T53, Y19  
 Polyakov, A.E., Z2'  
 Popjak, G., T3, D2, T14'  
 Porath, J., A55, A36', A39'  
 Porri, L., A15'  
 Porter, N.A., A40  
 Portmann, P., A4, A17, A19, A20  
 Portoghesi, P.S., A4, A13, A17, A31,  
     A18'  
 Pospisek, J., K16, K20  
 Posternak, T., A3, A16  
 Potier, P., K2, K29, K3', K4'  
 Poupaert, J.H., A18'  
 Poupat, C., K29  
 Pousset, J.L., K9, K10  
 Povey, D.C., T47  
 Powell, A.D.J., T50  
 Powell, C.E., A8'  
 Powell, J.W., T52  
 Powell, R.G., A29', K1'  
 Powers, E.J., A27'  
 Powers, T.W., X6'  
 Pracejus, H., A4'  
 Prakasa Rao, A.S.C., A36'  
 Prasad, R.S., T10'  
 Pratesi, P., A20, A21, A22  
 Pravda, Z., A11  
 Preaux, N., K3'  
 Preininger, V., K1, K20  
 Preis, S., A26'  
 Prelog, V., A26, A32, A34, A49, A53,  
     A54, C1, T3, T46, K8, K9, K35,  
     Y26, Y27, X4, X6, X11, A13',  
     A34', A38', X4'  
 Prendergast, J.P., Y5  
 Preston, N.W., K4'  
 Pretorius, Y.Y., A1  
 Price, H.C., A52, A23'  
 Price, P., Y8'  
 Priston, H.E.M., T10  
 Privett, J.E., X4  
 Proskow, S., A31  
 Prota, G., K17  
 Protas, J., Y10'  
 Prout, F.S., A24'  
 Prudence, R.T., X2'  
 Pruess, D.L., A5', A31', A32'  
 Przybylska, M., T58, K14, K21, K25,  
     K33  
 Pucci, B., A37'  
 Puckett, R.T., A52, T47, K36, X9'  
 Puda, J.M., A24'  
 Puliti, R., Y19, T15'  
 Pulman, D.A., A35'  
 Puranen, J., A11'  
 Purdham, J.T., K7'
- Quilico, A., T14'  
 Quintily, U., Z9'  
 Quitt, P., T35  
 Qureshi, A.A., Y2  
 Qureshi, I.H., K27  
 Raa, J.T., Y27  
 Raaen, V.F., A23  
 Raban, M., A8', Z5'  
 Rabe, P., K8  
 Rabitz, H., D1  
 Radlick, P., T30, T13'  
 Rae, I.D., K2'  
 Raeymakers, A.H.M., Y30  
 Raffauf, R.F., K3  
 Raffelson, H., A53  
 Raghavan, V.K.V., Y9  
 Ragonnet, B., A3'  
 Rahman, M.B., A12, A14  
 Rajagopalan, T.G., K2', K6'  
 Rakosi, M., A9'  
 Ralph, D.E., T29  
 Ramachandran, G.N., A21, C1, Y9  
 Ramachandran, K.S., K2'  
 Ramage, G.R., T28, T6'  
 Ramage, R., T29, Y29, A24'  
 Raman, S., A10, A21  
 Ramaseshan, S., K14, Y24  
 Rampal, A.L., T49  
 Ramsay, G.C., Y3, Y5  
 Ramsay, M.V.J., Y5  
 Ramuz, H., A36'  
 Ramuz, M., K4  
 Randall, S.S., A5  
 Ranganathan, S., Y29  
 Rao, A.S., A49, T16, T21  
 Rao, B.S., T20  
 Rao, G.V., A14  
 Rao, M.M., T51  
 Rao, M.V., K25  
 Rao, P.A.D.S., A1  
 Rao, S.T., A5, A8, A20  
 Rapala, R.T., T50  
 Rapoport, H., A3, T6, K20, Y12'  
 Rapp, A., Z5  
 Raske, K., A4  
 Rasmussen, S.E., A1, A4  
 Rasoanaivo, P., K3'  
 Rassat, A., T28  
 Rastetter, W., D3'  
 Rastogi, R.P., T15'  
 Ratcliffe, A.H., K4'  
 Raucher, S., Y8'  
 Rautenstrauch, V., A36, T54  
 Ravikumar, P.R., A33  
 Ray, A.B., K9'  
 Rayner, D.R., Z8, Z7'  
 Read, J., T4, T5  
 Records, R., X5  
 Redman, B.T., Y3, Y5  
 Redmond, J.W., D2  
 Reece, C.A., T8  
 Reeder, S.K., T7'  
 Reeke, G.N., K35  
 Rees, A.H., K14  
 Rees, K.R., K26  
 Reeve, W., A13'  
 Regan, J.P., X1

## Author Index

---

- Reich-Rohrwig, P., X6', X7'  
 Reichstein, T., T48, K3  
 Reid, J., Y26  
 Reiff, L.P., Z3'  
 Reinacker, R., T8  
 Reinholt, D.F., A40  
 Rejmanova, P., A14'  
 Remanick, A., A46, A47, T10, T11  
 Renauld, J.A.S., T41  
 Renfrew, A.J., T34  
 Renner, U., K11, K13, K15, K3'  
 Renwick, J.D., K22, K23  
 Rerat, M.C., T10  
 Resche, T., Y19  
 Resnick, B.M., A39'  
 Resnick, P.R., T41  
 Ressler, C., A5, A9, A20  
 Restivo, R.J., K35, T16', Y10'  
 Retey, J., A10, A28, D1, D2  
 Rettig, S.J., Y10'  
 Reusser, F., Y14'  
 Rey, M., T7'  
 Reymond, D., A16  
 Reynolds, C.D., K2'  
 Reynolds-Warnhoff, P., A46, A47, T10, T11  
 Rhodes, C.A., Y1  
 Rhuland, L.E., Y8'  
 Riano-Martin, M., Y6  
 Ribi, M., T33, T54  
 Ricard, L., K7'  
 Rice, W.Y., A13  
 Rich, P., A40'  
 Richardson, A.C., C1  
 Riche, C., T7', K4', Y6'  
 Richey, J.M., K10  
 Richter, W.J., T1'  
 Rickards, R.W., A8, A34, Y2  
 Rickborn, B.F., D1  
 Ridley, D.D., A11'  
 Riebel, A., T39  
 Riegl, J., A13'  
 Riew, C.K., A24'  
 Riggs, N.V., Y2'  
 Van Rij, C., A10'  
 Riley, T.N., A27'  
 Rimington, C., A20  
 Rimmer, B., T21  
 Rimmer, B.M., T48  
 Rindone, B., T31  
 Rinehart, K.L., A16, Y16, K5', Y11', Y14'  
 Ringdahl, B., A14'  
 Riniker, B., A53, T1, T2, T7, T19, T25, T46  
 Riniker, R., A53, T1, T2, T7  
 Rios, T., T41  
 Ripperger, H., A10, A27, A30, T49, K34  
 Risch, N., Y23  
 Ritchie, E., T46, T50, K5, Y2'  
 Rivett, D.E.A., T13'  
 Robb, E.W., K9  
 Roberts, D.R., X4'  
 Roberts, J.C., Y17  
 Roberts, J.S., A29'  
 Roberts, P.J., K2  
 Robertson, A., T50  
 Robertson, A.V., A17, Y3, Y3'  
 Robertson, G.B., K4'  
 Robertson, J.M., T12, T21, T37, T38, T40, T47, T52, T58, K8, K11, K26, Y17, T6', Y4'  
 Robins, D.J., A28, A33, K23, A12'  
 Robinson, B., A55, K30  
 Robinson, R., T13, K12, Y29  
 Rodewald, P.G., Z1  
 Rodig, O.R., Y13  
 Rodin, J.O., T8  
 Rodriguez, B., T12'  
 Roeske, R.W., Y29  
 Roevens, L.F.C., Y30  
 Rogers, D., A26, A55, C1, T11, T21, T24, T28, K6, K7, K25, Y6, Z8, T6', T9'  
 Rogers, I.H., T2  
 Rogers-Low, B.W., Y29  
 Rohde, M.F., A22'  
 Rohrl, M., T38, T39  
 Rojahn, W., T1, T1'  
 Rollett, J.S., T45, T49  
 Romano, L.J., A12  
 Romanuk, M., T14, T19  
 Romeo, A., Y22  
 Romers, C., A18  
 Romming, C., A5  
 Romo, J., T1, Y17  
 Roncari, G., A33  
 Rönsch, H.S., T49  
 de Roos, J.B., T22  
 Rosano, C.L., A12'  
 Rose, I.A., D2  
 Rose, W.C., A8  
 Rosenberger, M., K2'  
 Rosenblom, J., K5', K7'  
 Rosenfield, S.E., A4  
 Rosenqvist, E., A22'  
 Rosenstein, R.D., K9  
 Rosich, R.S., T35  
 Rossi, R., A28, A29, A15'  
 Rossmann, M.G., T5, T13, T32  
 Roth, H.D., A37  
 Rothen, A., A29, A57  
 Rothweiler, W., Y27  
 Rousselou, J.C., A37'  
 Roux, D.G., Y3, Y4  
 Rowe, J.W., T31  
 Roy, S.K., A5, A10, A19, K4, K18  
 Rubin, B., A20  
 Rubin, L.J., A13  
 Rubinstein, H., A4'  
 Ruble, J.R., A18', A37'  
 Rücker, G., T26  
 Rudinger, J., A11  
 Rudler, H., T5'  
 Rüedi, P., T12'  
 Ruegg, R., T56  
 Rueppel, M.L., K20  
 Runge, W., A22'  
 Ruo, T., T12'  
 Rupe, H., T11  
 Rupp, R., A12', A19'  
 Ruppert, J., Y23  
 Russel, J.H., K5'  
 Russell, G.B., K4'
- Russell, M., A15  
 Russell, R.C., Y1  
 Russell, S.W., T55  
 Rutkin, P., X5, X6  
 Rutledge, P.S., T35  
 Ruusa, E., K7'  
 Ruveda, E.A., K2  
 Ruzicka, L., A35, A39, T34, T42, T46, T51  
 Ryan, C.W., Y29  
 Ryback, G., T17'  
 Rydon, H.N., T7'  
 Ryschka, W., X1'  
 Sabol, M.A., D3'  
 Sachdev, H.S., A5  
 Sachdev, K., A25'  
 Sachs, M., A37  
 Saeki, Y., K20  
 Safe, S., Y15  
 Safir, D., Y24  
 Sahli, M.S., A26  
 Sahota, T., T2  
 Saiki, Y., Y1'  
 Sair, M.I., T50  
 Saito, N., C1  
 Saito, S., K18, A20'  
 Saito, T., C1, Y3'  
 Saito, Y., A19, T30, T40, Y26, Y30, Y6'  
 Sakabe, K., X4'  
 Sakabe, N., T40, K32, X4'  
 Sakai, K., T1'  
 Sakai, S., K11, K4', Y8'  
 Sakai, T., T18  
 Sakan, T., T13, T14, T38, T18'  
 Sakata, K., T39  
 Sakata, Y., X4'  
 Saksena, A.K., T48  
 Sakuma, R., T38  
 Sakurawi, K., Y5'  
 Sales, R., A40'  
 Salgar, S.S., K2  
 Salmond, W., T15'  
 Salomon, R.G., Y8'  
 von Saltza, M.H., Y26  
 Salvadori, P., Y6, A35'  
 Salzman, N.P., A11  
 Samek, Z., T11, T18, T21, T24  
 Samojlova, Z.E., A17'  
 Samori, B., A23, A14', A20'  
 Samuelsson, B., Y8'  
 Sanchez, E., K3, K4  
 Sandberg, R., A35  
 Sander, F.M., A3  
 Sanders, J.M., T39  
 Sanderson, C.P., T48  
 Sandman, D.J., A46  
 Sangare, M., K36  
 Sankawa, U., Y18, K5', Y10'  
 Sano, M., Y6'  
 Sano, T., T44  
 di Sanseverino, L.R., T45, T49  
 Santacroce, C., T14'  
 Santavy, F., K1, K3, K4, K5, K20, K23  
 Santelli, M., A3'

## Author Index

---

- Santopietro-Amisano, A., D2  
 Santurbano, B., Y2  
 Sardini, D., T16'  
 Sarfati, R., K30  
 Sargeson, A.M., A11  
 Sarma, V.R., A5, A8, A20  
 Sarre, O.Z., A17  
 Sasada, Y., A32, C1, T20, K3, K5,  
     K33, K35, T9'  
 Sasaki, H., Y4'  
 Sasaki, K., K22, K26, K32, T3', K3',  
     K9  
 Sasaki, T., A20  
 Sasse, J.M., T38  
 Sastry, S.D., T23  
 Sato, M., T12'  
 Sato, N., K35  
 Sato, S., Y6'  
 Sato, T., K6  
 Sato, Y., A36, T49, K34  
 Satoh, Y., K2  
 Sattar, A., T29, A24'  
 Satzinger, G., A40'  
 Satzke, L., K6'  
 Saucy, G., T2  
 Saunders, R.M., A15  
 Savage, D.S., T47  
 Sawa, Y.K., K8  
 Sawada, S., A37, A28'  
 Sawai, M., T48  
 Sax, M., Y11'  
 Saxton, J.E., K10  
 Scanlon, W.B., Y29  
 Scannell, J.P., A5', A31'  
 Scarset, A., A18  
 Schaad, L.J., A14'  
 Schaaf, T.K., Y8'  
 Schaefer, H., D2'  
 Schaeffer, J.P., Y27  
 Schaeffer, W.D., D1, A6', D1'  
 Schaffer, R.R., T19  
 Schaffner, C.P., Y26  
 Schaffner, H., X3'  
 Schaffner, K., T11, T32, T44, T45,  
     Y9  
 Schairer, H.U., T39  
 Schalkwyk, T.G.D., T42  
 Schantz, E.J., Y12'  
 Scharver, J.D., K3  
 Schaub, R.E., K10'  
 Schearer, W.R., A30  
 Scheer, I., T49  
 Scheitlin, E., Z8  
 Schenk, D., T12  
 Schenk, H.R., T34  
 Scherrer, H., A49, X6  
 Scherer, R.A., T28  
 Schevitz, R.W., T5  
 Schiedt, U., A10  
 Schinz, H., T1  
 Schlenk, W., A14  
 Schlessinger, R.H., K3  
 Schleusener, E., Y20  
 Schleyer, P. von R., A12  
 Schlittler, E., K11  
 Schlogl, K., X3, X8, X9, X2', X5',  
     X7', X8', X9'  
 Schlosser, A., A4
- Schlosser, F.D., K23  
 Schlosser, M., A27'  
 Schmid, A., T11  
 Schmid, H., A45, T15, T16, K10,  
     K11, K12, K13, K14, K15, K16,  
     Y1, Y2, Y17, A29', K3', K6', K10',  
     Y9'  
 Schmidt, H., T4, T7  
 Schmitz, F.J., T16', Y4'  
 Schmitz, H., A36  
 Schmutz, J., A10'  
 Schneider, F., A4  
 Schneider, H., A10  
 Schneider, H.J., A30'  
 Schneider, W.P., Y8'  
 Schnell, S., A19, A20  
 Schnoes, H.K., T24, Y12'  
 Schoenborn, B.P., T13  
 Schofield, K., A15, X11  
 Schönholzer, P., A10'  
 Schoofs, A., A3'  
 Schooley, D.A., T48, T58  
 Schöpf, C., A23, K4, K18  
 Schotte, L., A18  
 Schowen, K.B., A34'  
 Schrecker, A.W., A5, A31, A43, Y7  
 Schreiber, J., A20  
 Schreiber, K., A10, A27, A30, T49,  
     K31  
 Schreier, E., Y8  
 von Schrilz, D.M., Z8  
 Schroeck, C.W., Z6'  
 Schroeder, C.H., A26'  
 Schroepfer, G.J., A7  
 Schroeter, S.H., T5  
 Schudel, P., T56  
 Schulte-Elte, K.H., T1  
 Schultz, H.P., A8, A23'  
 Schulz, J., Y4'  
 Schulze, E., A9  
 Schumann, D., K12, K13, K14  
 Schuster, D.I., A28', A37', A39', A40'  
 Schwager, I., D1  
 Schwarting, A.E., K19  
 Schwartz, H.P., A15  
 Schwenk, R., Y27  
 Sciuchetti, L.A., T50  
 Scolastico, C.T., T31  
 Scopes, P.M., A2, A6, A12, T55, K3,  
     K4, K21, K23, Y24, Y30, A34'  
 Scorrano, G., Z9'  
 Scott, A.D., A1, A11, A12, A22, A51,  
     A13'  
 Scott, A.I., A3, T34, T35, T36, K15  
 Scott, A.N., A27  
 Scott, J.W., K35  
 Scroggins, J.H., T34  
 Scullard, P.W., K9  
 Seal, R.H., X4'  
 Sears, K.D., Y12  
 Sedmera, P., T25, K3, T5'  
 Seebach, D., A1, A26'  
 Seelkopf, C., K36  
 Seelye, R.N., T49  
 Segebarth, K.P., A29'  
 Sehgal, S.N., Y8'  
 Seibl, J., D1  
 Seidel, C.F., T34, T1'
- Seiler, N., T51  
 Sekita, T., T24  
 Selimoglu, R., A45  
 Sello, L.H., A5'  
 Selva, A., Y28  
 Semmler, F.W., T1, T5, T6, T7, T8  
 Sen, M., Y7'  
 Senda, Y., A51  
 Sengupta, P., T42, Y7'  
 Senior, R.G., T50  
 Senol, A., T29  
 Sensi, P., Y26  
 Seo, S., Y18, Y10'  
 Septe, B., K36  
 Sepulchre, A.-M., A3'  
 Sepulchre, M., A3'  
 Serck-Hanssen, K., A6, A7  
 Seshadri, T.R., T45  
 Sethi, O.P., A20  
 Sgarabotto, P., Z8  
 Shade, G., T6  
 Shaffer, R.R., T8'  
 Shaffner, T.J., T7  
 Shafiee, A., A17', K4'  
 Shaimardanov, R.A., K6'  
 Shaligram, A.M., T19, T23  
 Shamma, M., K1, K4, K10, K15, K1'  
 Shannon, J.S., T4  
 Shapiro, B.L., Y25  
 Shapiro, D., A11  
 Sharif, S.M., T22  
 Sharma, R.P., T1'  
 Sharman, H., D1  
 Sharpen, A.J., A4  
 Sharpless, N.E., K27  
 Shavel, J., K9  
 Shaw, J., T3'  
 Shaw, J.R., A24'  
 Shaw, P.E., T39  
 Shaw, R., K9'  
 Shea, K.J., A5', A16'  
 Shealey, Y.F., A9  
 Sheehan, J.C., A19, A29  
 Shefter, E., A31, C1  
 Sheikh, Y.M., T8'  
 Sheldrick, W.S., A11'  
 Shellard, E.J., K9  
 Shemyakin, M.M., A51, Y16, Y28  
 Shen, T.Y., X11  
 Shepherd, R.G., A8  
 Sheppard, R.C., A17  
 Sherfinski, J.S., C1'  
 Shiba, T., A11, A6', Y14'  
 Shibahara, S., A4'  
 Shibusaki, M., T54  
 Shibata, K., T48, K35  
 Shibata, S., T3, T51, Y18, T3', T13',  
     T15', Y10'  
 Shibayama, S., T37  
 Shibuya, S., T24  
 Shimada, T., T15  
 Shimanouchi, H., C1, T20, K3, K5,  
     K33, K35  
 Shimizu, M., K31  
 Shimizu, S., T4, T1'  
 Shimizu, Y., X4'  
 Shimokawa, N., T15  
 Shimomura, O., Y20

## Author Index

---

- Shine, R.J., K10, K13  
 Shingu, K., A51, X3, X2'  
 Shingu, T., K3'  
 Shinoda, N., T23  
 Shinohara, M., T15'  
 Shioiri, T., X6  
 Shiojima, K., T46  
 Shirahama, H., T30  
 Shirasaka, M., T32, T41  
 Shiro, M., C1, T40, K6, K8, Y11, Y13, Y18  
 Shishido, T., Y14  
 Shiuey, S., A32'  
 Shizuri, Y., K3', K9'  
 Shoemaker, D.P., X2  
 Shono, T., T15  
 Shooley, J.N., A16, A26, T13  
 Shore, F.L., A13'  
 Shudo, K., Y11'  
 Shue, R.J., A2'  
 Shustov, G.V., Z2'  
 Sicher, J., A21', A24'  
 Siddalingaiah, K.S., A8  
 Siddall, J.B., T47  
 Siddiqui, I.A., A38'  
 Sidwell, W.T.L., T46, T15'  
 Siegel, M.G., X4'  
 Siegelman, H.W., T17'  
 Siegrist, H., Z8  
 Sierra, J., A40  
 Siewinski, A., X3'  
 Sigel, C.W., T14, T41, T16'  
 Sigg, H.P., A11, A33, T31, Y14, Y19, Y24, A3', Y5'  
 Sigwalt, P., A14  
 Sih, C.J., A33, Y8'  
 Sikemeier, C., T5  
 De Silva, K.T.D., K2  
 Silvers, S., K11  
 Silversmith, E.F., A38  
 Silverstein, R.M., T8  
 Silverton, J.V., Y17, T15'  
 Sim, G.A., A19, T20, T21, T22, T24, T30, T31, T34, T35, T36, T37, T38, T39, T47, T48, T52, T53, T58, K4, K5, K8, K11, K20, K26, K29, K36, Y13, Y17, Y19, X9, Z8, T9'  
 Simanek, V., K1, K20  
 Simek, J.W., D2  
 Simes, H.V., T51  
 Simes, J.H.H., T43, T50, T51  
 Simmons, D.L., K33  
 Simmons, T., A12, Z7  
 Simon, E., X10  
 Simon, G.L., Y29  
 Simonovic, D.M., T21  
 Simonsen, J.L., T20, T6'  
 Simpson, P., Z2  
 Simpson, P.G., K13  
 Simpson, T.J., T15', Y2', Y5'  
 Sims, J.J., T19, T30, T13'  
 Sims, S.P., C1  
 Singh, A.N., T29  
 Singh, B.P., T27  
 Singh, P., A4  
 Singh, S., X6, X4'  
 Sioumis, A.A., K7, K28, K29, X7  
 Sipos, F., A21', A24'  
 Sjöberg, B., A2, A32, A48, A50, A55, Y1  
 Sjöberg, S., A2  
 Skell, P.S., A5', A16'  
 Sklar, R., K11, K13  
 Sklarz, B., T16'  
 Skolik, J., K21  
 Skraup, S., A20  
 Slabaugh, M., T14  
 Slater, G.P., K30  
 Slates, H.L., Y8'  
 Sleeman, R.J., T17  
 Slomp, G., T30, T48  
 Smaith, J.G., T4  
 Smale, T.V., T41  
 Smillie, R.D., T28  
 Smissman, E.E., A11, A34'  
 Smith, C.I., A20  
 Smith, E., Y8  
 Smith, G.D., T7'  
 Smith, G.F., K4'  
 Smith, G.N., K2, K4'  
 Smith, H., T34  
 Smith, H.E., A47, A54, T7, A4', A8', A14', X11'  
 Smith, H.O., A18'  
 Smith, L.H., A12'  
 Smith, L.W., K22, K24  
 Smith, M.J., Z1'  
 Smith, R.M., A8, A34, Y13'  
 Smolanoff, J., K8'  
 Snarey, M., T17  
 Snatzke, F., T32, K4, A9', Y9'  
 Snatzke, G., A43, A49, T16, T32, T50, T51, K3, K4, K5, K10, Y19, X11, A9', A29', A33', Y4', Y9', X10', Z3', Z4'  
 Sneath, T.C., T5'  
 Snell, B.K., A10  
 Snider, B.B., Y8'  
 Snow, G.A., A34, Y22  
 Snow, M.L., A5  
 Snyder, J.J., K5'  
 Soares, J.R., A18', A37'  
 Sobti, A., Y21, A28'  
 Sobti, R.R., T32  
 Sodano, G., T57, T15', Y10'  
 van Soest, T.E., Y3, Y13  
 Soffer, M.D., T18  
 Sogah, G.D.Y., X4'  
 Sokoloski, T.D., A21, Y29  
 Solladie, G., A28', D1'  
 Solodki, F., T6  
 Soman, R., A28'  
 Sommer, L.H., Z1, Z7, A20', Z11'  
 Sommerville, P., K8'  
 Sondheim, F., T49  
 Sone, T., A9', A39'  
 Sood, R., Y8'  
 Sorensen, E., A12'  
 Sorm, F., T11, T14, T16, T18, T19, T21, T22, T23, T25, T26, T2', T5', T6'  
 Soti, F., K28  
 Soti, S., A2  
 Soucek, M., T2, T3  
 Soudijn, W., A40'
- Soule, F.B., A30  
 Sousa, L.R., X4'  
 Southgate, R., T13  
 Sowden, J.C., A15  
 Spagna, R., A1'  
 Spänig, R., Y7  
 Spassky, N., A14, A3'  
 Speake, R.N., K24, Y8, Y27  
 Spek, A.L., A40'  
 Spencer, B., A27'  
 Spencer, H., K2  
 Spencer, J.L., Y29  
 Spenser, I.D., D2  
 Spessard, G.O., Y14'  
 Spicer, C.K., A11  
 Spraggins, R.L., T16'  
 Sprecher, M., A28  
 Spring, F.S., T42, T43, T46, K12  
 Springer, J.P., K2, K6', Y12'  
 Sprinson, D.B., A26, A28  
 Sprio, V., T14'  
 Srinivasan, R., Y16  
 Srivastava, S.N., T58, K21  
 Staab, H.A., X6'  
 Stackhouse, J., Z2'  
 Stadler, P.A., A33, K17  
 Stalick, W., A11'  
 Ställberg, G., A34  
 Ställberg-Stenhamen, S., A32, A34, A36'  
 Stancer, H.C., A11'  
 Stanek, J., C1  
 Stanford, R.H., Y11'  
 Stang, P.J., D2'  
 Stanislas, E., K36  
 Stanko, J.A., K1'  
 Stanley, K., Z1'  
 Stansbury, H.A., T48  
 Starkovsky, N.A., Y21  
 Staron, T., Y6'  
 Starratt, A.N., T43  
 Staudinger, H., A35  
 Stauffer, C.H., A29  
 Staunton, J., A39, A54, D1'  
 Stec, W., Z5  
 Steelink, C., T10, T2'  
 De Stefano, S., T57  
 Steglich, W., K4, Y10'  
 Stein, R.P., T36  
 Steinberg, D.H., X5  
 Steinberg, I.V., A32, A36  
 Steindel, S., Y1  
 Steinetz, B.G., A39'  
 Steinrauf, L.K., K27  
 Stek, W.J., Z3'  
 Stemmle, B., A36'  
 Stempel, A., Y11, A5', A18', A31', Y12'  
 Stenhamen, E., A34  
 Stephen, W.F., A34'  
 Stephenson, B., D1'  
 Steulmann, K., A4'  
 Stevens, C.M., A26  
 Stevens, K.L., T42  
 Stevens, P.G., A3'  
 Stevenson, K.M., T12'  
 Stevenson, R., T42, T43  
 Stewart, J.L., T42, T43

## Author Index

---

- Steyn, P.S., Y2, Y11, K5', Y1'  
 Sticzay, T., K10  
 Stille, J.K., A22'  
 Stillwell, M.A., Y10', Y11'  
 Stirling, C.J.M., D3', X1'  
 Stocklin, W., T22, T24  
 Stoddart, J.E., C1  
 Stoeckli-Evans, H., Y24  
 Stoll, M., T34, T49, K17, T1'  
 Stoodley, R.J., A9', A22'  
 Storer, R., Y19  
 Stork, G., T29, T35, Y8'  
 Stout, G.H., T39, T42, Y12  
 Streib, W.E., K21  
 Streith, J., T8'  
 Streitweiser, A., D1, A6', D1', D2'  
 Strejcek, F., A9'  
 Strell, I., T39  
 Strickler, H., T3  
 Strong, F.M., Y12'  
 Struchkov, Yu.P., A10'  
 Struchkov, Y.T., K4'  
 Struck, W.A., T32  
 Strunz, G.M., Y10', Y11'  
 Stuart, K.L., K3  
 Stulen, G., X6'  
 Stusser, R., T12  
 Suares, H., K29, X7, K9'  
 Subba Rao, H.N., T12  
 Subit, M., A24'  
 Subramanian, E., C1  
 Suchy, M., T21, T22  
 Suda, H., A22'  
 Suffness, M.I., K5, K35  
 Sugano, H., A5'  
 Sugi, Y., A40  
 Sugimoto, H., A17'  
 Sugino, T., Y26  
 Suginome, H., K35, Y1'  
 Sugita, T., A35, A44, A54  
 Sugiura, K., K9'  
 Sugiura, M., A47, X5'  
 Suhara, Y., A4'  
 Sullivan, H.R., A18'  
 Sumi, M., T21  
 Summers, M.C., D1'  
 Sunagawa, M., T38  
 Sundararaman, P., T3'  
 Sundeen, J., T15'  
 Sundin, S., T29  
 Sundrarajan, V.N., T52  
 Sundt, E., A26  
 Sunjic, V., A1'  
 Susz, J.P., A3  
 Suter, M., A4, A17, A19, A20  
 Sutherland, I.O., Y1, Y3, Y4, Y5, X11'  
 Sutherland, J.K., A45, T58  
 Sutherland, M.D., T2, T17, T20, T1',  
     T3', T4'  
 Sutherland, S.A., T34, T52  
 Sutor, D.J., K22  
 Suzui, A., T13  
 Suzuki, A., T9'  
 Suzuki, H., T15'  
 Suzuki, S., A46, A47, T10, T11, C1'  
 Suzuki, T., T12  
 Suzuki, Y., Y2, T18'  
 Svensson, O., A14'
- Swan, E.P., Y7  
 Swan, R.J., K3, K4, K10, K12, K13,  
     K14, Y4  
 Swayne, R.E.H., T43  
 Sweeny, J., K11  
 Syrdal, D.D., T16, T29, T2'  
 Sykora, V., T18  
 Szabo, A.G., K2'  
 Szabolcs, J., T54, T55  
 Szafraniec, L.J., Z3'  
 Szantay, C., K2  
 Szczeplanski, C.V., T13, T39  
 Szmulewicz, S., A17  
 Szymanski, J.T., Z1'  
 Tabata, T., K15  
 Tabuchi, H., A27  
 Tachibana, K., T16'  
 Tada, M., T30, T36, T7'  
 Taga, N., A24  
 Taga, T., T53, K29  
 Taguchi, H., Y10'  
 Tainturier, G., X9'  
 Takada, S., T40  
 Takagi, I., T23  
 Takahashi, K., K11  
 Takahashi, N., T41, Y30  
 Takahashi, R., T13', T15'  
 Takahashi, S., T38, T9', Y5'  
 Takahashi, T., A20, T23, T38, T42,  
     T7', T11', T16'  
 Takamura, N., A24, A40  
 Takao, N., K1'  
 Takase, K., T20, T22  
 Takasuga, M., T22  
 Takasugi, M., A26, K35, K9'  
 Take, T., Y17, Y25  
 Takeda, K., A47, T18, T19, T20, T21,  
     K6, Y5'  
 Takeda, N., Y10'  
 Takeda, T., K33  
 Takeda, Y., Z7  
 Takekoshi, T., A36, K24, Y27  
 Takemoto, T., T19, T25, T27, T38,  
     T53, T7', T11'  
 Takenaka, A., Y17  
 Takeshita, H., T8'  
 Takeshita, Y., T25  
 Takeuchi, S., Y30  
 Takeuchi, T., A20', Y5'  
 Takita, T., A7', A10', A14', A20',  
     A22', T9', Y11'  
 Talapatra, S.A., K3, K13  
 Tallent, W.H., A6, T15  
 Tamaki, E., K20  
 van Tamelen, E.E., A11, T1'  
 Tamm, Ch., T31, Y27, A29', T15', Y2'  
 Tamura, C., K29  
 Tamura, S., T40, T41, Y30, T9', T11'  
 Tamura, Y., K18  
 Tanabe, T., A3'  
 Tanahashi, Y., T23, T7'  
 Tanaka, A., T18  
 Tanaka, H., Y4'  
 Tanaka, J., X6, X4'  
 Tanaka, K., A20, T13  
 Tanaka, N., T51  
 Tanaka, O., T3, T45, T51, Y18
- Tanaka, R., T27  
 Tanaka, S., X7'  
 Tanenbaum, S.W., Y19  
 Tang, R., Z5, Z4', Z7'  
 Tangari, N., A30'  
 Tani, H., K3  
 Taniguchi, M., A11  
 Tanner, D.D., A27  
 Tao, R.C.C., A38, A39  
 Taoka, M., T33  
 Tapia, R., A40  
 Tapscott, R.E., A24  
 Tarbell, D.S., A6, K7, A3'  
 Tarlton, E.J., T20  
 Tatchell, A.R., A6, A8, A12, A13, X1  
 Tatemitsu, H., A20', X4', X11'  
 Tatone, D., A15'  
 Taub, D., Y14, Y8'  
 Tavernier, D., A6'  
 Tax, J., T25, T5'  
 Taylor, A., Y24  
 Taylor, C., T51  
 Taylor, D.A.H., T52  
 Taylor, D.R., T46, T50, T51, T53,  
     K25  
 Taylor, H.F., T17'  
 Taylor, H.L., T40, Y28  
 Taylor, M.R., D2  
 Taylor, R.P., X5  
 Taylor, W.C., T46, T50, K5, Y2'  
 Taylor, W.I., T13, K8, K9, K10, K11,  
     Y9  
 Taylor, W.R., A11  
 Tazima, H., Y11'  
 Teitel, S., K1, K2, K3, A10', K2'  
 Telang, V.G., A17  
 Templeton, D.H., A4, A11, C1'  
 Terao, S., K18, K36  
 Teraoka, M., T20  
 Terashima, S., A40, A51, T54, A13',  
     A32', A36', A39'  
 Terenius, L., A31  
 Teresa, J. de P., A21'  
 Ternay, A.L., A12, Z7  
 Teuffert, W., T1, T46  
 Thain, E.M., T17  
 Thaller, V., Y15, A11'  
 Theiberg, K.J.L., T43  
 Theobald, D.W., T19, T20, T35  
 Theobald, N., Y3'  
 Thielacker, W., X5  
 Thiele, U., A8'  
 Thierry, J.C., T27, T28  
 Thiessen, W.E., T24, T41, Y12'  
 Thomas, A.F., T3, T7, T16, T20, T1'  
 Thomas, B.R., T46, Y9  
 Thomas, G.J., Y13'  
 Thomas, G.M., K4  
 Thomas, H.T., A47  
 Thomas, J.P., A8  
 Thomas, R., A31, T41  
 Thomas, R.N., A12, K21, Y24  
 Thomas, U., A26  
 Thommen, W., T3  
 Thompson, D.J., Y17  
 Thompson, N.J., A7'  
 Thompson, Q.E., A53  
 Thomson, C., A29'

## Author Index

---

- Thomson, R.H., T45  
 Thornton, I.M.S., T52, T8'  
 Tibbets, M.S., T4  
 Tichy, M., A21', A24', X10'  
 Tidd, B.K., Y2'  
 Tideswell, J., A38'  
 Tobita, S., T13  
 Tobler, H., A7', X11'  
 Tocanne, J.F., A44  
 Toda, M., K26  
 Toda, T., T20  
 Todd, A., A10  
 Todd, D., T33  
 Toia, R.F., T14'  
 Tökes, A.L., A9'  
 Tokoroyama, T., T26, T52  
 Tokunaga, H., A2'  
 Tokuyama, T., K26  
 Tomie, M., A17'  
 Tomiie, Y., T45, K5, Y25  
 Tomisawa, T., A20'  
 Tomita, B., T20, T29  
 Tomita, K., T45, K25, K1'  
 Tomita, M., K3, K5  
 Tomiyama, K., T22  
 Tomko, J., K34  
 Tomoskosi, I., A44, X1  
 Toniolo, C., A12', A19'  
 Toome, V., K1  
 Tori, K., T23, K6, T6'  
 Torimoto, N., A25, Y2  
 Torrance, S.J., T2'  
 Torre, G., A21, A22, A23, Z2', Z7', Z9'  
 Tortorella, V., A10', A30'  
 Toshioka, N., A20  
 Toth, G., T54, T55  
 Toube, T.P., K8'  
 Tozyo, T., T25  
 Traenckner, H-J., A27'  
 Trager, W.F., K9, K10, A26'  
 Tramontini, M., A20', A30'  
 Trave, R., T14, T4', T5'  
 Traverso, G., Y7  
 Traynham, J.G., A27  
 Treasurywala, A.M., K15  
 Treibs, W., T1  
 Tremelling, M.J., A19'  
 Tribout, J., X6'  
 Trier, G., A9  
 Tristram, E.W., A40  
 Trivellone, E., T57  
 Trogolo, C., A25'  
 Trojanek, J., K11, K15, K16, K20  
 Trommel, J., A27  
 Trost, B.M., Z9'  
 Trotter, J., C1, T11, T31, T46, K5, K26, Y30, T15', Y10'  
 Trowitzsch, W., Y23  
 Trueb, W., A2  
 Trueblood, K.N., C1, T48, Y28, X6'  
 Tscharner, Ch., T36, T54  
 Tschesche, R., T48, T3'  
 Tsou, G., A10  
 Tsuchida, Y., K35  
 Tsuchihashi, G., A24, Z7'  
 Tsuda, K., A26, A29, T22, T32, T41, K21, K24, K35  
 Tsuda, Y., T44, T45, K31  
 Tsuji, M., A30', A35'  
 Tsuji, S., A6', Y14'  
 Tsukuda, Y., C1, Y12'  
 Tsuneda, K., T48  
 Tsunenaga, F., T12'  
 Tsuneno, T., K35  
 Tsuyuki, T., T42, T16'  
 Tsuzuki, Y., A20  
 Tuddenham, R.M., T10'  
 Tulinsky, A., K11, Y27  
 Tullen, P., T14  
 Turnbull, J.P., T51  
 Turnbull, L.B., K20  
 Turner, J.C., K2  
 Turner, R.B., T39, K8  
 Turner, W.B., A36, K24, Y27, Y2'  
 Turner-Jones, A., Y29  
 Tursch, B., T9, T8', T10', K7'  
 Uchida, I., T13'  
 Uchimaru, F., K31  
 Uda, H., T15, T18, T28, T1'  
 Uda, K., T27  
 Ueda, K., D1'  
 Ueda, S., T15  
 Uemura, D., T39  
 Ueno, A., K24, Y1'  
 Uenoyama, K., K26  
 Ugi, I., X8, A14', X9'  
 Uhda, G., T7  
 Uhde, G., T36, T54  
 Uhle, F.C., T49  
 Uhrlrich, L., Y1  
 Uhrhan, P., A37'  
 ul-Haque, M., T22, T24, K25, T6'  
 Ullmann, F., T11  
 Ulrich, S.E., A27  
 Umezawa, H., C1, Y26, A4', A7', A10', A14', A20', A22', T9', Y5', Y14', Y15'  
 Umino, K., A25'  
 Untch, K.G., A17  
 Urabe, Y., A5'  
 Uramoto, M., Y26  
 Urbahn, C., A40, A55  
 Urry, D.W., A9  
 Urry, W.H., Y14  
 Ursprung, J.J., T42  
 Uskokovic, M., K1, A9', A25', A32', T7'  
 Usubilliga, A., K36  
 Usui, N., A7'  
 Utkin, L.M., K22  
 Utsumi-Oda, K., T47  
 Utzugi, N., K24  
 Uyeo, S., T17, K6, K29, K3'  
 Uznanski, B., Z3'  
 Vaciago, A., T41, Y26  
 Valenta, Z., K25  
 Valente, E.J., A26'  
 Valiant, J., A22, Y24  
 Vallen, S., A11', A29'  
 Valverde, S., T12'  
 Valverde-Lopez, S., K26  
 van Acker, L., A6'
- Van Bommel, A.J., A2  
 van den Berg, G.R., Z3', Z4'  
 van den Bosch, S., A10  
 van den Hende, J.H., K4, Y27, Y10'  
 Vanderah, D.J., Y4'  
 Van der Gen, A., T9  
 van der Helm, D., A30, T31, T10', T16', Y4'  
 Van der Linde, L.M., T9  
 Van der Merwe, K.J., Y2  
 Van Dijk, B., X3'  
 Van Dorp, D.A., Y8'  
 Vane, G.W., K1, K26, Y15, X1, X11  
 van Gorkom, M., A34'  
 Van Heyningen, E., Y29  
 Van Rij, C., A10'  
 van Schalkwyk, T.G.D., T42  
 Van Soest, T.E., Y3, Y13  
 Vanstone, A.E., T15'  
 van Tamelen, E.E., A11, T1'  
 Van Veen, A., K19  
 van Veen, A.M., Z1'  
 van Wijngaarden, I., A40'  
 Varech, D., A23'  
 Varkevisser, F.A., A31, A23'  
 Vasina, I.V., Y16  
 Vassova, A., K34  
 van Veen, A.M., Z1'  
 Vega, R., C1'  
 Velarde, E., X1  
 Velick, S.F., A31  
 Velluz, L., T48  
 Venkataraman, K., Y9  
 Venkatesan, K., A5, A8, A20  
 Verbit, L., A52, D1, A23'  
 Vercesi, D., A23, A25  
 Verghese, J., T6  
 Verkade, P.E., A43  
 Vernengo, J., K3, K4  
 Verry, M., A33  
 Verzele, M., Y9'  
 Vessiere, R., A33  
 Vetuschi, G., A10'  
 Vidal, J.P., Z1'  
 Vieles, P., A1  
 Vignau, M., A37'  
 du Vigneaud, V., A4, Y30  
 Vignerion, J-P., Z1'  
 Villa, A.C., K16  
 Villareal, R., T7'  
 De Ville, T.E., T55  
 Vincent, J.L., K35  
 Virtanen, A.I., Z7  
 Vishnuvajala, B.R., A7'  
 Visser, G.J., X6'  
 Viswanathan, N., T21, K5'  
 Vitali, G., A20  
 Viterbo, R., T32, T44, T46  
 Vlad, P., T3  
 Vlahov, R., T18  
 Vleggaar, R., Y11, Y1'  
 Vogler, K., A21  
 Vokac, K., T11  
 Vonasek, F., T18  
 von Baeyer, A., T6  
 von Braun, J., A27, T1, T46  
 von Dreele, R.B., T37  
 von Gross, B., T3'

## Author Index

---

- von Klemperer, M.E., K22  
 von Phillipsborn, W., K15, K19  
 von Saltza, M.H., Y26  
 von Schrilz, D.M., Z8  
 von Wittenau, M.S., T19, Y28  
 Vorbruggen, H., T45, K32, Y29  
 Voticky, Z., K36  
 de Vries, J.X., Y14  
 de Vries, K.S., A43  
 Vrkoc, J., T16, T26  
 Vukov, V., A2'  
 Wada, H., K9'  
 Wada, K., A50, Y5'  
 Wada, M., T23, Y15'  
 Wada, Y., Y26, Y28, A10', T13'  
 Waddell, T.G., T22, T24, T9'  
 Waddington-Feather, S.M., T40  
 Wadia, M.S., T25, T29  
 Wagh, A.D., T20  
 Wagner, G., T2, T11  
 Wagner, P.J., A16'  
 Wagner-Jauregg, T., A1  
 Wagniere, G., X3'  
 Wahl, G.H., X10  
 Waight, E.S., T41  
 Waiss, A.C., Y3  
 Waite, M.G., K4, K36  
 Wakabayashi, K., A27, A30  
 Wakabayashi, M., K11  
 Wakahara, A., K1'  
 Wakamiya, T., A11  
 Wakayama, S., T1'  
 Walborsky, H.M., A14, A35, A37,  
     A44, A46, A54, A56, A23', A27',  
     A29', X1'  
 Walbrick, J.M., A44, X2  
 Walehi, P., K6'  
 Walia, J.S., A46, A47, T10, T11  
 Walker, D.L., Y28  
 Wall, M.E., T40, K29, Y28  
 Wallach, O., A38, T2, T10  
 Wallis, A.F.A., T10  
 Wallis, E.S., A27  
 Walls, F., T1  
 Wallwork, I.R., A55  
 Wallwork, S.C., Y15  
 Walshaw, K.B., T19, T20  
 Walther, A., T49  
 Walti, A., A1, A14, A22  
 Walti, M., A12  
 Wang, A.H., T13', Y14'  
 Wani, M.C., T40, K29, Y28  
 Warawa, E.J., A39  
 Wareham, D.V., A21'  
 Warnell, J.L., A20  
 Warnet, R.J., K4  
 Warnhoff, E.W., K6, X7  
 Warren, F.L., K12, K22, K23, K7'  
 Warren, K.E.H., K2  
 Warren, M.E., A8'  
 Warwick, A.J., A10  
 Waser, E., A5  
 Waser, J., C1  
 Washburn, W.H., Y25  
 Washecheck, D.M., Y4'  
 Washecheck, P.H., T31  
 Watanabe, E., T3, A13'  
 Watanabe, H., T24  
 Watanabe, I., T41  
 Watanabe, M., T44  
 Watanabe, T., A4, Y17, Y20, Y25,  
     Y11'  
 Waters, J.A., K26  
 Waters, J.M., T38, Y13, Y24  
 Waters, T.N., T33, T34, Y13, Y24  
 Waters, W.L., X2  
 Watson, C.J., Y23  
 Watson, D.G., T27, T52  
 Watson, K.M., A13', A22'  
 Watson, M.B., A23, A41, A43, A48  
 Wayne, R.S., K10'  
 Weatherston, J., Y4  
 Webb, T., Y22  
 Weber, A., A21'  
 Weber, H., D1  
 Weber, H.P., A11, A33, T27, T31,  
     K16, Y7, Y14, Y24, A10', T15',  
     K6', Y6', Y12'  
 Webster, M.S., Y28  
 Wedekind, E., T12  
 Weedon, B.C.L., T54, T55, T56  
 Weeks, O.B., T18'  
 Wehrli, H., K36  
 Wei, C.C., K15  
 Weiberg, O., A20  
 Weidmann, R., A25, A50, A3'  
 Weigang, O.E., X7', X8'  
 Weinges, K., Y3, Y7, A36'  
 Weinheimer, A.J., T31, T10', T16'  
 Weinschenker, N.M., Y6'  
 Weinstein, B., T36  
 Weinstock, L.M., A14'  
 Weir, N.G., T38  
 Weisbach, J.A., K3, K37, K2'  
 Weisblat, D.I., A1, C1  
 Weisenborn, F.L., K9  
 Weiss, G., T17'  
 Weiss, J., X5  
 Weiss, R., T27, T28  
 Weiss, U., T53, K27, Y10  
 Weissberger, E., X11'  
 Weissmann, Ch., A45, K12  
 Welch, F.J., A3', A19'  
 Welerson de Albuquerque, P.C., Y3'  
 Wellman, K., X5  
 Wells, R.B., K8'  
 Wells, R.J., A15, X11, Y1'  
 Welzel, P., T48  
 Wemple, J., A51, A55  
 Wendler, N.L., Y14, Y8'  
 Wendling, L.A., A2'  
 Wenkert, E., T3, T32, T33, K8, K9,  
     K11, K15  
 Wenziger, G.R., K7  
 Wepster, B.M., A43  
 Werner, G., K18  
 Werner, N.D., A18, A37  
 Werner-Zamojska, F., X10'  
 Werstiuk, N.H., T28  
 Werth, R.G., A47  
 West, B.D., A26'  
 West, T.F., T2  
 Westcott, N.D., T15'  
 Westfelt, L., T18, T28  
 Westin, L., K1  
 Westley, J.W., A41, Y11, Y6'  
 Westman, L., A50, A52  
 Wetherington, J.B., Y30, A18'  
 Whaley, H.A., Y22  
 Whalley, W.B., A55, T34, T37, Y11,  
     Y13, Y17, A38'  
 Wharton, P.S., A23'  
 Wheatley, P.J., Y27  
 Wheatley, W.B., A36  
 Wheeler, D.M.S., K4  
 White, A.H., T14'  
 White, D.E., T35, T43  
 White, D.M., T19  
 White, D.N.J., T24, T47, K5, Y27  
 White, E.H., T22  
 White, E.P., K21, K7'  
 White, J.D., T37, T13'  
 White, T.G., A10'  
 Whitehouse, D., A28'  
 Whitehurst, J.S., K1, X11  
 Whiteley, C.G., K8'  
 Whitham, G.H., T8, T43  
 Whiting, D.A., A8, T45, Y1, Y7, Y9,  
     Y15, T15', Y10'  
 Whiting, M.C., X1  
 Whitman, P.J., A8  
 Whitney, T.A., Z8'  
 Whittaker, D., T7, T8, T9  
 Whittaker, N., K2  
 Whitten, C.E., A26'  
 Wiberg, K.B., A1  
 Widdowson, D.A., K7, A11'  
 Widmer, R., A11, K20  
 Wiegrebe, W., K5'  
 Wiegner, A., T29  
 Wieland, H., K12  
 Wieland, T., A20, A18', Z8'  
 Wiesner, K., T58, K25, K33  
 Wiewiorowski, M., K21  
 van Wijngaarden, I., A40'  
 Wilcox, M.E., K17  
 Wilder, P., A8'  
 Wiley, P.F., C1, Y20  
 Wilhelm, M., A13'  
 Wilkins, A.L., T15'  
 Wilkins, C., Y3  
 Wilkinson, D.I., A28, Y25  
 Wilkinson, R.G., A8  
 Wilkinson, S., A9, K2'  
 Willhalm, B., T3  
 Williams, D.A., A31, T40  
 Williams, D.E., A40  
 Williams, D.J., K6  
 Williams, D.R., A32'  
 Williams, G.J.B., A17'  
 Williams, J.H., K10'  
 Williams, J.R., K28, K6'  
 Williams, R.E., T18, T28  
 Williams, R.P., A12'  
 Williams, T., Y11, A5', A31'  
 Williams, T.H., T7'  
 Williams, T.R., Z6'  
 Willing, R.I., K29  
 Willis, A.C., T14'  
 Willis, C., T36  
 Willis, C.R., K2'  
 Willis, T.C., A47  
 Willner, D., A46, A47, T10, T11

## Author Index

---

- Willstätter, R., Y23, A17'  
 Wilson, F.B., K29  
 Wilson, J.M., K13  
 Wilson, J.W., A44, X1  
 Wilson, K.E., Y14'  
 Windhorst, J.C.A., A31'  
 Wing, R.M., T30, T13'  
 Winitz, M., A7'  
 Winker, H., Z3, Z5  
 Winn, A.V., T7  
 Winter, S., A4'  
 Winterfeldt, E., K21  
 Winters, T.E., T24  
 Wintersteiner, O., K29  
 Wiss, O., T46  
 Witiak, D.T., A20, A7'  
 Witkop, B., A10, A17, A21, A30, K8,  
     K13, K26, K36  
 von Wittenau, M.S., T19, Y28  
 Witters, R.W., T24  
 Witteveen, J.G., T9  
 Wittig, G., A8'  
 Wnuk, R.J., Y12'  
 Wogan, G.N., Y12'  
 Wohl, A., A2  
 Wolf, D.E., A4, A22, Y24, Y30  
 Wolf, H., Y23  
 Wolfe, J.R., D1'  
 Wolff, G., T27  
 Wolff, I.A., A7  
 Wolff, L., T10  
 Wolfrom, M.L., A1, C1  
 Wolinsky, J., A39, T5, T14  
 Wollenberg, G., K3  
 Wong, C.F., A38, K24, K7'  
 Wong, C.M., Y27  
 Wong, S.M., T14'  
 Woo, P.W.K., A9  
 Wood, C.E., A11'  
 Wood, G., Y28  
 Woods, M.C., T15  
 Woodward, R.B., A26, A53, T1, T11,  
     T19, T46, K8, K35, Y25, Y28, Y29  
 Woody, R.W., Y24  
 Wootton, M., T43  
 Worch, H.H., T49  
 Worth, G.K., T14'  
 Wren, H., A23  
 Wright, G.F., T4  
 Wright, H., K20, T13', Y12'  
 Wright, R.S., T50  
 Wrigley, T.I., T2  
 Wrixon, A.D., A2  
 Wrobel, J.T., K7'  
 Wunderlich, J.A., T11, K7, K24  
 Wüst, W., A23, K18  
 Wüthrich, H.J., X3'
- Wyler, H., T46, K17  
 Wylie, A., T38  
 Wynberg, H., X4, X3', X6', X11'  
 Yagisawa, N., A4', Y14'  
 Yahashi, R., Y12'  
 Yajima, S., A3'  
 Yamada, K., K3', K9'  
 Yamada, M., Y3'  
 Yamada, S., A5, A11, A40, A51, T54,  
     K20, X6, A9', A11', A13', A17',  
     A29', A32', A36', A39'  
 Yamada, Y., T30  
 Yamaguchi, K., T12, K4'  
 Yamamoto, G., A8'  
 Yamamoto, H., T12', Y14'  
 Yamamoto, K., A41, K5, X7', X8',  
     X9'  
 Yamamoto, Y., A14'  
 Yamamura, S., T22, K26  
 Yamasaki, M., T5'  
 Yamashita, K., T17'  
 Yamashita, M., A24  
 Yamatodani, S., K17  
 Yamauchi, H., T45  
 Yamauchi, M., K18  
 Yamawaki, Y., K18  
 Yamazaki, K., Y6'  
 Yamazaki, M., K5'  
 Yamazaki, S., T40, T11'  
 Yan, S., A33, A28'  
 Yan, S., A2', A28'  
 Yanai, H.S., K19  
 Yanai, M., T38, T11'  
 Yanagiya, M., Y20  
 Yang, D.M., Y10'  
 Yang, T.H., K18  
 Yankee, E.W., A21, A27', Y8'  
 Yanschulewitsch, J., A37  
 Yao, S.Y., K1'  
 Yasui, B., K25, K31  
 Yasunari, Y., T12  
 Yatagai, M., T4'  
 Yates, P., K2'  
 Yeboah, S.K., T15'  
 Yee, T., T46  
 Yelland, L.J., A12'  
 Yeowell, D.A., K11  
 Yokota, T., T11'  
 Yokoyama, H.N., T54  
 Yokoyama, N., K6  
 Yoneda, N., A5', A17'  
 Yonehara, H., A9, Y26, Y30  
 Yonemitsu, O., A36, K9  
 Yoshida, R., A2  
 Yoshida, T., T13, T4'  
 Yoshihara, K., T18
- Yoshihara, T., A30  
 Yoshihira, K., Y7'  
 Yoshikawa, Y., K5  
 Yoshikoshi, A., T18, T27, T28  
 Yoshimoto, M., K24  
 Yoshino, A., K32  
 Yoshioka, H., T9'  
 Yoshioka, I., T45, T2', T15'  
 Yost, G., Y7'  
 Young A.E., A54, A27'  
 Young, D.W., T34, T35, T36, Y19  
 Young, K., Y2'  
 Young, R.W., A1  
 Young, W.G., A1, A12  
 Youngson, G.W., A23, A41, A43, A48  
 Youssef, A.A., A46  
 Yuen, G.U., A13'  
 Yumusov, S.Yu., K6'
- Zaar, B., T8  
 Zacharias, D.E., K9, K13, K2'  
 Zachau, H.G., A29, A39  
 Zagalak, B., D1  
 Zahorszky, U.I., D3'  
 Zalan, E., A34, K8  
 Zalkin, A., A4, A11  
 Zalkow, J.H., Y1  
 Zalkow, L.H., T13, T19, T23, T32,  
     T5'  
 Zalkow, V.B., T19  
 Zambonelli, L., A1'  
 Zamudio, A., T7'  
 Zealley, J., Y17  
 Zechmeister, K., T38, T39, T47, T11',  
     Y1', Y10'  
 Zeiger, W., K2'  
 Zeitlin, A., T13  
 Zeitschel, O., T4  
 Zelawski, Z.S., Y8'  
 Zelnick, R., T51, T13'  
 Zenda, H., Y15'  
 Zepp, R.G., A16'  
 Ziegler, H.E., A13'  
 Ziegler, M.F., Y10'  
 Ziegler, R., T15'  
 Ziffer, H., A16, A52, T53, A7', A21'  
 Zigic-Mamuzic, L., A3'  
 Zinnes, H., K9  
 Zon, G., Z4, Z5, Z6  
 Zürcher, W., Y2'  
 Zussman, J., A17  
 Züst, A., Y4  
 Zweifel, G., T8, T9  
 Zweistra, A., K19  
 Zwicker, E.T., Z7'  
 Zylber, J., Y3'  
 Zymalkowski, F., A19, A29, A10'

# Subject Index

---

- Abietane, T33  
 Abietatriene, T33  
 Abietic acid, T32  
 Abikoviromycin, Y30  
 Abrine, A20  
 Abscisic acid, T17'  
 Acerogenin A, Y3'  
 Acetolactic acid, methyl ester, A33  
 Acetylaranotin, Y21  
 Acetylchloromalic acid, A1  
 Achillene, T1  
 Achillin, T22  
 Achromycin, Y28  
 Aconitine, K33  
 Acoradienes, T29, T5'  
 Acoragermacrone, T22  
 Acorenols, T29  
 Acenaphthenes, A35'  
 Acrostalic acid, T12'  
 Actidione, Y21  
 Actinidine, T13  
 Actinobolin, Y30  
 Acutumine, K5  
 2-acylindole alkaloids, K11, K4'  
 Adaline, K7'  
 Adamantanes, A33', A37', Z9'  
 Adenocarpin, K18  
 Adianine, T43  
 Adiantol, T45  
 Adipedatol, T45  
 Adonose, C2  
 Adrenaline, A22  
 Adrenochrome, A24  
 Adriamycin, Y28  
 Aeroplysinins, Y19, Y10'  
 Aflatoxins, Y13  
 Agarofurans, T19  
 Agatharesinol, Y9  
 Ageratriol, T5'  
 Agerol, T5'  
 Agrimonolide, Y2  
 Agroclavine, K17  
 Ajaconine, K32  
 Ajmalicine, K9-10  
 Ajmaline, K11  
 Akuammicine, K12  
 Akuammidine, K11  
 Akuammamine, K12  
 Alangidiol, T45  
 Alangium alkaloids, K2  
 Alanine, A1  
 Alaninol, A19  
 Alantolactone, tetrahydro-, T21  
 Alaskenes, T29  
 Albene, T11  
 Albiflorin, T3'  
 Albofungin, Y11'  
 Albolic acid, T41  
 Alborixin, Y6'  
 Alchornein, K10'  
 Alditol, A11, C1  
 Aldohexoses, C1  
 Aldoheptoses, C3  
 Aldooctoses, C3  
 Aldopentoses, C1  
 Aldoses, C1  
 Aldotetroses, C1  
 Aleuriaxanthin, T18'  
 Alisol A, T15'  
 Alkaloid C, K31  
 Alkaloid CC-2, K1  
 Alkaloid LBX, K29  
 Alkylidenecycloalkanes, X3-4, X1'  
 Allenes, T55, X1-3, X1'  
 Allitol, C1  
 Alloanodendrine, K22  
 Alloaromadendrene, T26  
 Allodevardarool, T34  
 Allohimachalol, T12  
 Allohydroxycitric acid, A30  
 Alloisocitric lactone, A30  
 Alloisoleucine, A27  
 Allomatrine, K24  
 Allose, C1  
 Allosecurinine, K18  
 Allosedamine, K18  
 Allosedridine, K19  
 Allothreonine, A24  
 Alloxanthin, T55  
 Alloyohimbane, K10  
 Allulose, C2  
 Alnusene, T42  
 Aloycopine, K25  
 Alopecurine, K26  
 Alstonine, tetrahydro-, K9  
 Altritol, C1  
 Altrose, C1  
 Amaryllidaceae alkaloids, K6, K1'  
 Amatoxins, Z8'  
 Ambonic acid, T50  
 Ambrein, T42  
 Ambreinolide, T34  
 Ambrosic acid, T9'  
 Ambrosin, T24  
 6-aminopenicillanic acid, Y29  
 3-aminoproline, Y22  
 Amphetamine, A5  
 Amphotericins, Y26  
 Amurensine, K1  
 β-amyrane, T42  
 Amyrins, T42  
 Anabasine, K18  
 Anaferine, K19  
 Anagyrine, K21  
 Anatabine, K18  
 Ancistrocladidine, K2'  
 Ancistrocladinine, K2'  
 Ancistrocladisine, K2'  
 Ancistrocladine, K2'  
 Andibenin, T16'  
 Androcymbine, K4  
 Andrographolide, T36  
 Angolesin, Y5  
 Angolensic acid, T52  
 Angustifoline, K21  
 Anhalonidine, O-methyl, K2  
 Anhalonine, K2'  
 Anhydromonocrolactic acid, K23  
 Anhydrovobasindiol, K11  
 Anisomycin, Y27  
 Annofoline, K25  
 Annopodine, K26  
 Annotinine, K25  
 Annulenes, X6'  
 Anodendrine, K22  
 Anopterine, K9'  
 Antheridiogen, T35  
 Antheridiol, T15'  
 Anthracene derivatives, A7', X4-5'  
 Antibiotic Ro 21-6150, Y6'  
 Antibiotic A-204A, Y6'  
 Antibiotic DE-3936, Y6'  
 Antibiotic U-42,126, Y12'  
 Antibiotic U-43,795, Y12'  
 Antibiotic X-5108, Y12'  
 Antibiotic LL-5491, T13'  
 Antibiotic X-537A, Y11  
 Antibiotic X-206, Y11  
 Antibiotic LL-BH-872a, Y30  
 Antimycin A<sub>3</sub>, Y15'  
 Antirhine, K8  
 Antofine, K5'  
 Aphidicolin, T12'  
 Aphid pigments, Y10  
 Aplysin, T12  
 Aplysinol, T12  
 Aplysterol, T15'  
 Apoaromadendrene, T26  
 Apoaromadendrone, T26

## Subject Index

Apofenchene, T10	Baccharis oxide, T16'	Bicyclo[3.1.1]heptaines, T8-10, T2'
Apomorphine, K4	Bacogenin-A, T15'	Bicyclo[3.2.0]heptains, T10, A30-31'
Apopinene, T2'	Bacteriochlorophyll, Y23	Bicyclo[4.1.0]heptaines, A35, T5-6,
Aporphine alkaloids, K3-4	Bacteriorubin, T18'	Bicyclo[8.4.0]tetradecanes, A23'
Aposclerotioramine, Y11	Baikain, A10	Bicyclo[9.3.0]tetradecanes, T14'
Apoverbenone, T2'	Bakuchiol, A36'	Bicyclo[5.4.0]undecanes, T12, T30,
Apramycin, C1'	Balchanolide, T21	T4'
Arabin, Z8	Balfourodine, K31	Bicyclo[7.2.0]undecanes, T28
Arabinitol, C1	Balfourolone, K30	Bile pigments, Y23
Arabinoxulose, C2	Baptifoline, K21	Bilobanone, T4'
Arabinose, C1	Barbatusin, T13'	Bimesityl, D3'
Arborinol, T45	Barbiturates, A55, A28'	Binaphthyls, X6, X4'
Archangelicin, Y1	Base R, K7'	Biotin, Y30
Argemonine, K1	Batatic acid, T3'	$\alpha$ -biotol, T29
Arginine, A11	Batrachotoxinin A, K36	Biphenyls, X3, X7, D3', X4'
Aristeromycin, Y21	Baurenol, T42	$\beta$ -bisabolene, T2
Aristolene, T26	Baurenone, T42	Biselenienyls, X5
Aristolone, T26	Benchrotrenes, X9	Bisepoxylignans, Y7-8
Aristoteline, K4'	Benzetimide, A40'	Bithienyls, X5
Armentomycin, A5'	Benzodiazepines, A1'	Blancoic acid, Y12
Armpavine, K3	Benzoin, A23	Blastidic acid, A9
Aromadendrene, T26	Benzoquinolizines, A5, A10'	Blumenols, T17'
Arsenic compounds, Z3, Z2'	Benzotriazoles, A14'	Bongrekic acid, Y3'
Arteannuin B, T7'	Benzoyl allylhippuric acid, A10	Borneol, T11
Artemisin, T21	Benzylglutamic acid, A32	Bornyl chloride, T11
Ascofuranone, Y4'	3-O-benzylglycerol, A14	Bornylidenebornanes, X11'
Asparagine, A4	Bertyadianol, T14'	Boromycin, Y27
Asparaginol, A4	Betanidin, K17	Boschniakime, T15
Aspartic acid, A4	Betanin, K17	Boschnialactone, T15
Asperilin, T21	Betulafolienetriol, T51	Boschnialinic acids, T15
Asperuloside, T13	Betulenols, T6'	Botrychin, Y17
Aspidodasycarpine, K12	Betulinic acid, T43	Botrydial, T3'
Aspidodispermine, K13	Betulin, T43	Bourbonenes, T18
Aspidofractinine, K14	Beyerane, T35	Bourjotinolones, T46
Aspidophytine, K2'	Beyerol, T35	Brefeldin A, Y14
Aspidospermidine, K13	Bianthryls, X6-7	Brevianamide A, K5'
Aspidospermine, K13	Biaryls, K2-4, K20, K27, Y2, Y10,	Brevicolline, K20
Athamanthin, Y1	Y15, Y17-18, X3, X6, X10, D3',	Brevicomin, Y3'
Atidine, K32	X4'	Breynolide, T3'
Atisine, K32	Biculluline, K3	Bromocamphors, T11, T28
Atisirine, T32	Bicyclo[4.4.0]decanes, A39, A53-54,	3-bromocamphor-9-sulphonic acid,
Atlantone, T10'	T18-23, T26, T31-32, T34, T37-	T11
Atractyligenin, T14'	39, T42, T53-54, T57, A34', A38',	2-bromo- $\beta$ -desmotroposantonin, T21
Atractylon, T21	T4', T7, T12', T18'	Bromogeigerin acetate, T21
Atrolactic acid, A31	Bicyclo[5.3.0]decanes, T22, T24-25,	$\alpha$ -bromoisotutin, T31
Atropisostreptovaricin C, Y14'	T40, T5', T8'	$\beta$ -bromolactic acid, A1
Atrovenetin, Y12	Bicyclo[7.1.0]decanes, X2	Browniine, K33
Aucubin, T15	Bicycloelemene, T19	Brucine, K12
Aureolic acid group antibiotics, Y16	Bicyclogermacrene, T19	Brunsvigine, K1'
Aureomycin, Y28	Bicyclo[2.2.1]heptanes, A36, A46-7,	Bulbocapnine, K4
Austamide, K5'	T10-13, X3, A33', T2', X10'	Bulbocodine, K3
Austdiol, Y11	Bicyclo[3.1.1]heptanes, T8-10, T2'	Bulgarenes, T18
Austcystins, Y1'	Bicyclo[3.2.0]heptanes, T10, A30-31'	Bulnesol, T25
Avenaciolide, Y2'	Bicyclo[4.1.0]heptanes, A35, T5-6,	Bundlins, Y26
Axivalin, T9	A24', A37'	Buphanisine, K6
Azaferrocenes, X9	Bicyclo[2.1.1]hexanes, T12	<i>tert</i> -butylglycine, A3'
Azaphilones, Y11	Bicyclo[3.1.0]hexanes, T7, T12, A25'	Butyrospermol, T46
Azaserine, A4	Bicyclo[3.2.2]nonanes, A46	Buxenine G, K36
Azcarpine, K20	Bicyclo[3.3.1]nonanes, A33'	Buxidienine F, K36
Azetidines, A19, A5', A13', A17'	Bicyclo[4.3.0]nonanes, A37, A53,	Buxus alkaloids, K36
Azides, A1, A11	T18-19, T23, T30-31, T37, T48,	Byssochlamic acid, T58
Azimic acid, K30	A38', T3-4', T7'	Cacalol, Y17
Azimine, K30	Bicyclo[6.1.0]nonanes, X2	Cadinane, T18
Aziridines, A13, A17, A23, A40, A4',	Bicyclo[2.2.0]octanes, A46-47, A23'	Cadinenes, T18
A7', A14'	Bicyclo[3.2.1]octanes, A46, T27,	$\delta$ -cadinol, T18
Azo compounds, A19'	T30	$\epsilon$ -caesalpin, T40
Azoxy compounds, A8'	Bicyclo[3.3.0]octanes, A37	Cafestol, T36

## Subject Index

---

- Calacone, T16  
 Calamenene, T16  
 Calarane, T26  
 Calciferol, T48  
 Calcorene, T16  
 Caldariomycin, Y16  
 Callicarpone, T33  
 Callitrisic acid, T33  
 Calodendrolide, T16'  
 Calycanthidine, K26  
 Calycanthine, K26  
 Calycotomine, K2  
 Camphene, T11  
 Camphenilone, T11  
 Campherenone, T28  
 Campholic acid, A36  
 Camphonanic acid, T12  
 Camphor, T11  
*cis*-camphoric acid, T12  
 Camphoronic acid, T12  
 Camphorquinone, T12  
 Camphorsulphonic acids, T11-12  
 Camptothezin, K29  
 Canallinin, Z8  
 Canaric acid, T43  
 Cancentrine, K2'  
 Canescins, Y6  
 Cannabidiol, T5  
 Cannabidiolic acid, T5  
 Cantharic acid, Y9'  
 Capaurimine, K3  
 Capaurine, K3  
 Capenincin, T31  
 Capnellane, T8'  
 Capsanthin, T55  
 Capuronidine, K15  
 Capuronine, K15  
 Carbazoles, A37'  
 Car-3-ene, A35  
 Car-4-ene, T5  
*trans*-car-4-ene-3-ol, T6  
 Caracurine VII, K12  
*trans*-caran-2-one, T6  
 Caranes, T6  
 Caranine, K6  
 Carbodiimides, X3  
 Carbomycin, Y25  
 Carbonates, A14-15  
 Carbonyls, X9, X2', Z1'  
 $\beta$ -carboxybutyramide, A34  
 Cardenolides, T49  
 Cardiolipin, A15  
 Carlosic acid, A12'  
 Carminomycin, Y28  
 Carnitine, A2  
 Carnosine, A20  
 Carnosol, T33  
 Carolic acid, A12'  
 Carolinic acid, A12'  
 Caronic acid, A35  
 Carotenes, T54, T17'  
 Carotenoids, T54-55, T17-18'  
 Carotol, T5'  
 Carpaine, K30  
 Carpamic acid, K30  
 Carquejanone, T16  
 Carquejol, T16  
 Carveols, T5, T5'  
 Carvomenthol, T5  
 Carvomenthone, T5  
 Carvone, T5  
*cis*-carvotanacetol, T1  
 Carvotanacetone, T1  
 Caryophyllene, T6'  
*trans*-caryophyllenic acid, T6'  
 Cascarillin, T39  
 Cassaic acid, T39  
 Cassaine, T39  
 Cassine, K30  
 Castoramine, K7'  
 Catalponol, Y17  
 Catechin, Y3  
 Catharanthine, K15  
 Ceanothic acid, T43  
 Cedrelanol, T18  
 $\alpha$ -cedrene, T29  
 Cedrol, T29  
 Celesticetin, Y21  
 Celllobiose, C4  
 Cembrenes, T41, T10'  
 Centaurepensin, T9'  
 Centrolobine, Y3'  
 Centrolobol, Y3'  
 $\alpha$ -cephalins, A15  
 Cephalonic acid, T41  
 Cephalosporin C, Y29  
 Cephalosporin P<sub>1</sub>, T50  
 Cephalotaxine, K1'  
 Ceroplastic acid, T41  
 Ceroplastol I, T41  
 Cervicarcin, Y18  
 Cevine, K35  
 Chaenorhine, K10'  
 Chaetocin, Y24  
 Chalcomycin, Y25  
 Chalmoogric acid, A36  
 Chamaecynenol, T20  
 Chamaecynone, T20  
 Chamic acid, T6  
 $\alpha$ -chamigrene, T4'  
 Chaminc acid, T6  
 Chanoclavines, K17  
 Chaparrinone, T53  
 Chasmanine, K9'  
 Chasmanthin, T38  
 8-*epi*-chasmanthin, T38  
 Chelidonine, K5  
 Chiloscyphone, T18  
 Chimonanthine, K26  
 Chiral dienes, X11'  
 Chiral methyl group, D2  
 Chitaric acid, Y20  
 Chitosenine, K4'  
 Chloramphenicol, A21  
 Chlorochrymorin, T9'  
 Chloromalic acid, A2  
 Chlorophylls, Y23  
 Chlorothricin, Y13'  
 Chlorothricolide methyl ester, Y13'  
 Chlortetracycline, Y28  
 Cholesterol, T46  
 Chondriol, Y4'  
 Chondrocurarine, K2'  
 Chondrocurine, K2'  
 Chorismic acid, A3  
 Chromium compounds, X9  
 Chromycinone, Y16  
 Chrysanthemic acids, A35  
 Chrysanthemumdicarboxylic acid, A35  
 Chrysanthenenone, T8  
 Chrysoaphins, Y10  
 Cimigenol, T51  
 Cinchona alkaloids, K8  
 Cinchonamine, K8  
 Cinchonidine, K8  
 $epi$ -cinchonidine, K8  
 Cinchonine, K8  
 $epi$ -cinchonine, K8  
 Cinenic acid, T3  
 Cinerins, T17  
 Cinerolone, T17  
 Citramalic acid, A33  
 $\beta$ -citraurin, T55  
 Citrinin, Y13  
 Citronellal, T1  
 Clavatol, T44  
 Clavulanic acid, Y29  
 Cleavamine, K15  
 Clerodendrin A, T37  
 Clerodin, T37  
 Clivonine, K6  
 Cneorin-C, T16'  
 Cnidilide, Y14  
 Cocaine, K28  
 Co-carcinogens, T39  
 Coccinine, K6  
 Coclaurine, K3  
 Codeine, K4  
 Coformycin, Y14'  
 Colchicine, K30  
 Colensenone, T34  
 Coleones, T33, T12'  
 Colletodiol, Y5'  
 Columbianadinoxide, Y1  
 Columbin, T38  
 $epi$ -columbins, T37  
 Compactinervine, K13  
 Concinnadiol, T13'  
 Condyfoline, K12  
 Condylocarpine, K12  
 Conessine, K34  
 Confertifolin, T31  
 Conhydrine, A17'  
 Conidine, A17'  
 Coniine, K27  
 Conoflorin, K13  
 Convergine, K7'  
 Copacamphor, T28  
 Copaeone, T18  
 Cordifoline, K2  
 Coriolic acid, A7  
 Coriolin, T9'  
 Cornin, T13  
 Coronaridine, K15  
 Coryamyrtin, T31  
 Corydalispironone, K1'  
 Corymbol, T36  
 Corymine, K14  
 Corynanthe alkaloids, K8-10  
 Corynantheidine, K9  
 Corynantheine, K8  
 Corynoxine, K9  
 Costaclavine, K17

## Subject Index

---

- Costunolide, T22  
 Cotinine, K20  
 Coumarans, Y1  
 Coumarins, A49, A26'  
 Crassin, T41  
 Crepidine, K7'  
 Crinamine, K6  
 Crinamine, 6-hydroxy, K6  
 Crinine, K6  
 Criocerine, K3'  
 Criwelline, K6  
 Crotapoxide, Y19  
 Crotocin, T31  
 Crotylglycine, A10  
 Crown ethers, X4'  
 Crustecdysone, T48  
 Cryptaustoline, K5  
 Cryptomerion, T5  
 Cryptomerone, T16  
 Cryptone, T2  
 Cryptosporiopsis, Y10'  
 Cryptostyline II, K1  
 Cryptoxanthins, T55  
 Cuanzine, K3'  
 Cubeb camphor, T18  
 Cubenol, T18  
*epi*-cubenol, T18  
 Cuauhtemone, T7'  
 Cucurbitacin A, T50  
 Cucurbitine, A30  
 Cularine, K5  
 Culmorin, T28  
 Cuparene, T12  
 Cuparenic acid, T12  
 Cuparenol, T12  
*a*-cuparenone, T12  
 Cuprene, K8  
 C-Curarine III, A37'  
 Curcumenes, T16  
 Curvulol, Y2  
 Cyanacobalamin, Y24  
 Cyathin A<sub>3</sub>, T13'  
 Cybullool, T7'  
 Cyclazocene, Y20  
 Cycloallenenes, X2, X1'  
 Cyclalkenes, chiral, X2  
 Cycloalkynes, X2  
 Cycloalliin, Z7  
 Cycloartenol, T50  
 Cyclobutane derivatives, A28, A37, T8,  
     T28, A31', T2'  
 Cyclobuxidine F, K36  
 Cyclobuxine D, K36  
 Cyclobuxosuffrine, K36  
 Cyclobuxoxazine, K36  
*a*-cyclocitral, T54  
 Cyclocolorenone, T22  
 Cyclopacamphene, T28  
 Cyclodecane derivatives, T18-22, T24,  
     T30  
 Cyclodopa, K17  
 Cycloeucalenol, T50  
 Cycloeudesmol, T19  
*a*-cyclogeraniol, T54  
 Cyclograndisolide, T50  
 Cycloheptane derivatives, A3, A38,  
     T24, A10', A20', A30', Y7'  
 Cycloheximide, Y21  
 Cyclolavandulol, T2  
 Cyclolignans, Y7-8  
 Cycloneolitsin, T50  
 Cyclonerodiol, T1'  
 Cyclonerotriol, T1'  
 Cyclononane derivatives, T58, X2  
 Cyclooctane derivatives, A3, X2, A7',  
     A32'  
 Cycloolivil, Y7  
 Cyclopentadecane derivatives, A32  
 Cyclopentane derivatives, A19, A31,  
     A36-38, A45, T3, T7, T9-10,  
     T12-15, T17, T55, Y14-16, Y21,  
     D2, A12', A25', A28', A30', A37',  
     A40', T1', T3-4', Y8-11', Y13'  
 Cyclopentanoid monoterpenes,  
     T13-17  
 Cyclophanes, X6-8'  
 Cyclopropane derivatives, A12, A27,  
     A30, A35, A37, A44, A54, T17,  
     A22', A27', A35', T14', D1-2'  
 Cycloprotobuxine C, K36  
 Cyclosativene, T28  
 Cyclosteroids, T50-51  
 Cyclotetradecane derivatives, T41  
 Cycloundecanes, T30  
 Cyperene, T27  
 Cyperolone, T19  
*epi*-*a*-cyperone, T19  
 Cyperones, T20  
 Cyperotundone, T27  
*Cypridina* luciferin, Y20  
 Cyproterone, T47  
 Cysteine, A4  
 Cystine, A4  
 Cytidine, 2'-deoxy, C4  
 Cytisine, K21  
 Cytochalasins, Y27, Y12'  
 Dactylyne, Y4'  
 Dalbergione, 4-methoxy- and 4,4-dimethoxy-, Y4  
 Damascone, T54  
 Dammarenediols, T51  
 Dammarenolic acid, T51  
 Daphmacrine, K26  
 Daphneteijsmannine, K26  
 Daphnetoxin, T39  
 Daphniphyllum alkaloids, K26  
 Daphylloside, T15  
 Datiscoside, T16'  
 Daucene, T5'  
 Daucic acid, A11'  
 Daucol, T5'  
 Daunomycin, Y28  
 Daunomycinone trimethyl ether, Y28  
 Daunosamine, Y28  
 Davallol, T44  
 Davanone, T3  
 Deacetlyluscnic acid, Y10'  
 Decaline, K27  
 Decalins, A39, A53, A54, T18-23,  
     T26-27, T31-32, T34, T37-39,  
     T42, T53-54, T57, A34', A38',  
     T7', T9', T12-13', T18'  
 Decamine, K27  
 Decevinic acid, K35  
 Decinine, K27  
 Decodine, K27  
 Decorticasine, K8'  
 Decursinol, Y1  
 1,2-dehydroaspidospermidine, K13  
 Dehydroroncamphor, A46  
 Dehydrohumulinic acids, Y9'  
*Exo*-dehydronorborneol, A46  
 Dehydropiptanthine, K6'  
 5-dehydroquinic acid, A26  
 3,4-dehydroproline, A17  
 Dehydroroleleanone trimethyl ether,  
     T33  
 Dehydrovomifoliol, T17'  
 Delnudine, K33  
 Delphinine, K33  
 Delphisine, K9'  
 23-demethylgorgosterol T16'  
 4-demethylhasubanonine, K5  
 Dendrine, K31  
 Dendrobine, K31  
 Dendroprimine, K5'  
 Densipolic acid, A7  
 Deoxyandirobin, T51  
 2'-deoxycytidine, C4  
 Deoxynupharidine, K24  
 Deoxypodocarpic acid, T33  
 5-deoxyquinic acid, A26  
 Deoxytubulosine, K2  
 Deserpidine, K9  
 Desmethyldesmotroposantolin, T22  
 Desosamine, Y25  
 Desoxaphomin, Y12'  
 Desoxyephedrine, A4  
 Desoxymatrinol, K24  
 Desoxynupharidine, K24  
 Desthiobiotin, Y30  
 Desylamine, A23  
 Deuterated compounds, X3, D1-2,  
     D1-3'  
 Diaboline, K12  
 Diacetoxyscirpenol, T31  
 Diatoxanthin, T55  
 Diazepams, A1', A4', D1'  
 Diaziridines, Z2'  
 Dibenzopyrrocoline alkaloids, K5  
 Dictyopterenes, A44, Y7'  
 Digitoxigenin, T49  
 Diglycerides, A15  
 Dihydroactinidiolide, T18'  
 Dihydroanhydromonocrotalic acid, K23  
 Dihydrocarveol, T5  
 Dihydrocarvone, T5  
 Dihydrocitronellic acid, T1'  
 Dihydrocorynantheane, K2  
 Dihydrocoumarilic acid, Y1  
 Dihydrodicatechin A, Y3  
 Dihydroguaiols, T25  
 Dihydroguaiaretic acid dimethyl ether,  
     A31  
 Dihydrohaematinic acid, T22  
*trans*-dihydrohaematinimide, Y23  
 Dihydrohomopterocarpin, Y3  
 Dihydrojasmonic acid, methyl ester,  
     A36  
 Dihydrokaurenes, T35  
 Dihydroketopicrotoxic acid, K9'  
 Dihydrolycorine, K6

## Subject Index

---

- 3,4-dihydro-4-methylcoumarin, A49  
 Dihydromethylisopulegone, A38'  
 Dihydromicrophylline F, K36  
 Dihydronepetalactone, T14  
 Dihydronitenin, T57  
 Dihydrooroselol, Y1  
 Dihydropavine, *N*-formyl, methine, K1  
 Dihydropiptosidin, Y2'  
 Dihydroprotoemetine, K2  
 $\beta$ -dihydrosedanolide, Y14  
 Dihydrosenecic acid, K23  
 Dihydrotalbotine, *N*-methyl, K16  
 Dihydrotubaic acid, Y1  
 Dihydroumbellone, T7  
 Dihydroverticillatine, K27  
 Dihydroxyfarnesic acid, T18'  
 Dihydroxyheliotridane, K22  
 Dilactic acid, A1  
 Dilactophoric acid, A22'  
 Dimeric flavonoids, Y3  
 4,4'-dimethoxydalbergione, Y4  
*N*, $\gamma$ -dimethylalloisoleucine, A29  
 Dimorphecolic acid, A7  
 Dimyristoylcephalin, A15  
 Dimyristoylcithin, A15  
 Dinoceb, A49  
 DIOP, A24  
 Diosbulbins, T13'  
 Dioscinine, K29  
 Diogenin, T49  
 Dioxatwistane, X11'  
 Dipalmitoylcephalin, A15  
 Dipalmitoylglycerol, A15  
 Dipalmitoleylcithin, A15  
 Dipalmitoylcithin, A15  
 Diphospatidylglycerol, A15  
 Dipiperidyl, K18  
 Diplodialide A, Y5'  
 Dipteroxarpol, T51  
 Disaccharides, C4, C1'  
 Disparlure, Y3'  
 Distearoylcephalin, A15  
 Distearoylglycerol, A15  
 Distearoylcithin, A15  
 Disulphides, A2, A18, A34, Y24, A16'  
 Diterpene alkaloids, K31-33, K9'  
 Diterpenes, T32-41, T1', T10-14'  
 Dithiaadecalins, A38'  
 Dithianes, A6', A15'  
 Dithiodiisobutyric acid, A34  
 Dithiolanes, A18  
 Dithiothreitol, A2  
 Diynes, A11'  
 Djenkolic acid, A4  
 Dolabradiene, T34  
 DOPA, A5  
 Dopastin, A4'  
 Dothistromin, Y13  
 Douglanine, T22  
 Dregamine, K4'  
 Drimenin, T32  
 Drimenol, T32  
 Drimic acid, T32  
 Duartin, Y3  
 Duclauxin, Y18  
 Ebelin lactone, T51
- Eburicoic acid, T50  
 Eburna alkaloids, K16  
 Eburnamonine, K16  
 Eburnaphylline, K3'  
 Ecdysone, T48  
 Ecgonine, K28  
 Ecgoninic acid, A9  
 Echiboline, A37'  
 Echinodol, T50  
 Echinulin, K30  
 Echitamine, K14  
 Edultin, Y1  
 Elaiocarpine, K29  
 Elatol, T3'  
 Elemadienoic acid, T46  
 Eleman-8-one, T20  
 Elemol, T20  
 Elenolic acid, T1'  
 Elephantol, T24  
 Eleutherin, Y2  
 Elymoclavine, K17  
 Emericid, Y6'  
 Emetine, K2  
*Endo*-norborneol, A46  
 Enduracidine, A6'  
 Enmein, T33  
 Eperuic acid, T36  
 Ephedrine, A21  
 $\Psi$ -ephedrine, A21  
*epi-a*-cyperone, T19  
 Epialloyoimbane, K10  
 Epiborneol, T12  
 Epicamphor, T12  
 Epicatechin, Y3  
 Epicorynolin, K1'  
 Epiglaudine, K1  
 Epiguaiipyridine, T24  
 Epiisoborneol, T12  
 Epijuvabione, T2  
 13-epimanool, T34  
 Epimines, A13, A17, A23, A40, A4', A7', A14'  
 Episteganol, Y10'  
 Epishyobunone, T22  
 Epoxydone, Y19  
 Epoxyfarnesol, T18'  
 Epoxynorcafestanone, T36  
 1,2-epoxytetralin, A25  
 Ergochromes, Y17  
 Ergoflavin, Y17  
 Ergonovine, K17  
 Ergosterol, T48  
 Ergot alkaloids, K17  
 Ergotamine, K17  
 Ergothionine, A20  
 Ergot pigments, Y17  
 Eriobrucinol, T5'  
 Ervatamine, K4'  
 Erythraline, K7  
 Erythrina alkaloids, K7  
 Erythristemine, K7  
 Erythritol, C1  
 Erythroaphins, Y10  
 $\alpha$ -erythroidine, K7  
 $\beta$ -erythroidine, dihydro-, K7  
 $\beta$ -erythroidine,  $\beta$ -tetrahydro-, K7  
 Erythromycins, Y25
- Erythropentulose, C1  
 Erythrose, C1  
 Erythroxydiol Y, T34  
 Erythrulose, C2  
 Eserine, K30  
 Ethambutol, A8  
 Ethanoanthracenes, X4-5'  
 $\gamma$ -ethylideneglutamic acid, A10  
 $5\beta$ -etianic acid, T49'  
 Eucomic acid, A29'  
 Eucommiol, A25'  
 Eucosterol, T15'  
 Eudesmanolides, T21  
 Eudesmols, T19  
 Eumitrin B, Y10'  
 Eunicin, T41  
 Eupacunin, T24  
 Eupalmerin, T10'  
 Euparotin, T24  
 Eupatoriopicrin, T21  
 Euphol, T46  
 Eupteleogenin, T45  
 Evonine, K9'  
 Evoninic acid, A31  
 Evorine, K9'  
 Evozine, K9'  
*Exo*-brevicomin, Y3'  
*Exo*-norborneol, A46
- Factor V-la, Y24  
 Falcarinol, A7  
 Farfugin A, T7'  
 Farnesiferols, T57  
 Fasciculatin, T14'  
 Fawcettidine, K25  
 Fawcettimine, K25  
 Febrifugine, K10'  
 Fecht acid, X3'  
 Feist's acid, A37  
 Fenchane, T10  
 $\alpha$ -fenchene, T10  
 $\alpha$ -fencholenic acid, T10  
 Fencholic acid, T10  
 Fenchone, T10  
 Fenchyl alcohols, T10  
 Fenfluramine, A5  
 Fernene, T44  
 Ferrocenes, X3, X8, A14', X9'  
 Ferrocenophanes, X9, X9'  
 Ferruginol, T33  
 $\alpha$ -ferulene, T26  
 Festuclavine, K17  
 Fichtelite, T32  
 Filican-3-one, T44  
 Filicene, T44  
 Filifolides, T2'  
 Filifolone, T10  
 Fisetinidol, Y4  
 Flabellidine, K25  
 Flavans, Y6, A9', Y1'  
 Flavan-4-one, 7-hydroxy-, Y6  
 Flavan-7-ol, Y6  
 Flavanoids, Y3-6  
 Flavoskyrin, Y10'  
 Flindissone lactone, T51  
 Florenilanin, T9'  
 Fluorocurarine, K12  
 Foliamenthin, T13

## Subject Index

---

Folicanthine, K26	Glucarubin, T53	Hemmingsamine, K12
Formycin, C4	Glaucine, K3	Heptahelices, X6'
Formylchromomycinoic acid, Y16	Glaconic acid, T58	Heptoses, C3
N-formyldihdropavine methine, K1	Glaudine, K1	Herqueinone, Y12
Formylolivinic acid, Y16	Gliotoxin, Y24	Hesperetin, Y6
Franklinol, Y2'	Globulol, T26	Hetacillin, Y29
Fraxinellone, Y2	Glucitol, C1	Heteratisine, K33
Friedelin, T42	Glucose, A26	Heterohelices, X6'
Friedelinol, T42	Glutamic acid, A9	Heteroyohimbane alkaloids, K7
Frontalin, Y3'	Glutamine, A9	Hexahelicene, X6'
Fructose, C2	Glutethimide, A39'	Hexahydrochamaecynone, T20
Fucoxanthin, T55	Glutinic acid, X3	Hexahydrocoriolin, T9'
Fujenal, T35	Glyceraldehyde, A1	Hexahydrophenylalanine, A5
Fukiic acid, A30	Glyceric acid, A1	Hexahydrotyrosine, A5
Fukinan-8-ol, T23	Glycerol, C1	Hexitols, C1
Fukinanolide, T23	Glycerol 1,2-carbonate, A15	Hexoestrol, A45
Fukinolide, T23	Glycerol 3-phosphate, A14	Hexoses, C1
Fukinolidol, T23	Glycerophosphoric acid, A14	Hibaene, T35
Fukinone, T23	Glycerotetrulose, C2	Hibiscus acid, A30
Fumariline, K1'	Glycerylphosphorylcholine, A14	Himachalenes, T12, T8'
Fumitremorgin B, K5'	Glycollic acid, D2	Himbacine, K18
Furanoeremophilanes, T23, T7'	Glycyrrhetic acid, T42	Hinesol, T2'
Furanofuranoid lignans, Y7-8	Gmelinol, Y7	Hinokiresinol, Y9
Furanoid lignans, Y7-8	Goitrin, A8	Hippeastrine, K6
Furanoligularenone, T23	Gomisin D, Y10'	Hirschmann notation, A14
Furanoterpenes, T1, T17, T20-21, T23, T30, T36-38, T52-53, T57, T1', T3-4', T7', T14', T16'	Goniothalamin, Y3'	Hirsutic acid, T31
Eupelargones, T14	$\beta$ -gorgonene, T31	Hirsutin, Z8
Fusamarin, Y2	Gorgosterol, T50	Histidine, A20
Fusicoccin A, T41	Grandisol, T2'	Histrionicotoxin, K26
Fusidic acid, T50	Grasshopper ketone, T55	Hodgkinsine, K3'
Fustin, Y4	Grayanol B, T11'	Homaline, K30
Gaillardin, T24	Grayanolotoxins, T38	Homocamphor, T27
Galactitol, C1	Grindelic acid, T14'	Homocaronic acids, A35
Galactose, A16	Griseofulvin, Y17	Homochasmanine, K9'
Galanthamine, K6	Griseoviridine, Y15'	Homochrysanthenic acids, A35
Galbegin, Y8	Grisorixin, Y11	Homocitric acid, A26
Galbulin, Y8	Guaianolides, T22, T9'	Homoerythrina alkaloids, K7
Gambogic acid, Y9	$\gamma$ -guaiene, T25	Homolycoreine, K6
Gammacerane, T44	Guaiol, T25	Homopterocarpin, Y3
Garcinia acid, A30	Guaiocide, T25	Homosecadaphniphyllic acid, methyl ester, K26
Gardneramine, K4'	Guaiaretic acid, A31	Homoterpenyl methyl ketone, T1
Gardnerine, K11	3-guanidinoproline, Y22	Homothujadicarboxylic acid, T7
Garrya alkaloids, K32	Gulitol, C1	Hopane, T45
Garryfoline, K32	Gulose, C1	Hopeaphenol, Y15
Gazaniaxanthin, T55	$\alpha$ -gurjunene, T8'	Hopenone I, T45
Gedunin, T52	$\gamma$ -gurjunene, T25	Humulene dioxide, T30
Geigerin, T21	$\beta$ -gurjunene, T26	Humulene epoxides, T30
Geijerone, T20	Gutieride, T37	Humulenic acids, Y9'
Gelsidine, K14	Gymnomitrol, T8'	Humulenols, T30
Gelsemine, K14	Haemanthamine, K6	Humulone, Y9'
Genepin, T13	Haemanthidine, K6	Hunteracine, K14
Geneserine, K30	Haematinimide, dihydro-, Y23	Hunterburnine, K8
Genipic acid, T15	Haplocine, K13	Huratoxin, T39
Geosmin, T7'	Haplophytine, K2'	Hyalodendrin, Y11'
Geranylinalool, T3	Hardwickiac acid, T37	Hydantoins, A8', A18'
Germacranoles, T21	Hastanechine, K22	Hydrastines, K3
Germacrenes, T18	Havanensis, T53	Hydratropic acid, A41
Germanium compds., Z2	Hecogenin, T49	3 $\beta$ -hydroxyalocholanic acid, T49
Germine, K35	Hedycarol, T20	Hydroxycadaverine, A5'
Gibberellic acid, T35	Helenalin, T24	Hydroxycitic acid, A30
Gibberellins, T35, T11'	Helicenes, X7, X6'	Hydroxycotinine, K20
Gibberic acid, T35	Helicobasidin, T12	6-hydroxycrinamine, K6
Ginkgolides, T40	Heliotridane, K22	Hydroxycuparene, T12
Glaucanic acid, T58	Heliotridine, K22	Hydroxydihydroeremophilone, T23
Glauconol, T53	Heliotrinic acid, K24	Hydroxydihydrotubaic acid, Y1
	Helminthosporal, T30	Hydroxyeriobrucinol, T5'
	Helvolic acid, T50	$\gamma$ -hydroxyglutamic acid, A7'

## Subject Index

$\beta$ -hydroxyglutamic acid, A2	Ishwarone, T23	Isopilocarpine, K10'
Hydroxyhistidine, A10'	Isoagatholactone, T14'	Isopilopic acid, A28
$\gamma$ -hydroxyhomoarginine, A10	Isoalchornein, K10'	Isopilosine, K10'
3'-hydroxy- $\beta$ -lapachone, Y2'	Isoasparagine, A20	Isopimaric acid, T32
7-hydroxylathyrol triacetate, T39	Isoborneol, T11	Isopinocampheol, T9
Hydroxylysines, A10, A5'	Isobutylmalic acid, A11'	Isopinocamphone, T9
Hydroxymellein, Y2	Isobutyltartaric acid, A11'	Isoplumericin, T16
4-hydroxymethylproline, A17	Isocalamendiol, T22	Isopulegol, T1'
4-hydroxypipecolic acid, A10	Isocarvomenthol, T5	Isoquinolines, A5, K1-2, K5, Y11,
5-hydroxypiperazic acid, A11	Isocarvomenthone, T5	A32', K1-2'
Hydroxyprolines, A17	Isocaryophyllene, T6'	Isoretronecanol, K22
3 $\beta$ -hydroxyprotost-13(17)-ene, T50	Isochamic acid, T6	Isoretronecanolic acid, K22
Hydroxypyrocine, A12'	Isochromanones, Y1	Isorhoeadine, K1
Hydroxyquinic acid, A26	Isocitric acid, A30	Isosapogenins, T49
Hydroxystylopine, K3	Isocitric lactone, A30	Isoserine, A1
Hydroxytremetone, Y1	Isocolumbin, T38	Isosparteines, K21
2-hydroxytryptophan, A20	Isocupressic acid, T34	Isostevane, T35
5-hydroxytryptophan, A20	Isodihydronepetalactone, T14	Isosteviol, T35
Hydroxyvitexin, C1'	Isodocarpin, T33	Isosylvestrene, T6
Hygrine, K19	Isodonol, T33	Isotenulin, T24
Hygrinic acid, A11	Isoelaecarpine, K29	Isothujone, T7
Hygroline, K19	Isoleaetherin, Y2	Isothujyl alcohol, T7
Hygrophilinec acid, K23	Isofenchone, T10	Isotirucallol, T51
Hymentherenes, T1	Isofenchyl alcohols, T10	Isotopically labelled compounds, X3,
Hyoscine, K28	Isoflavanoids, Y3-6, Y1'	D1-2, D1-3'
Hyoscyamine, K28	Isoflavanones, Y1'	Isoursenol, T45
Hyperforin, Y9'	Isofuranogermacrene, T20	Isovaline, A40
Iberin, Z8	Isoglutamine, A9	Isovincoside, K2
Iboga alkaloids, K15	Isogmelinol, Y7	Isozygosporin A, Y12'
Ibogamine, K15	Iso- $\alpha$ -gurjunene, T25	Ivalbin, T24
Ichangin, T52	Isogymnomitrone, T8'	Ivorensic acid, T52
Ichthyothereol, Y15	Isohaemanthamine, K6	Jacobine, K22
Iditol, C1	Isoheliotridene, K22	Jaconecic acid, K22
Idose, C1	Isohibaene, T32	Jasminin, T15
Ikarugamycin, Y13'	Isohopane, T45	Jasmolin, T17
Illudin S, T30	Isohumulones, Y9'	Jasmonic acid, A36
Illudol, T30	Isoilludin S, T30	Jasmonic acid, dihydro, methyl ester,
Iminazole derivatives, A20, A23, Y30, A10'	Isoiridomyrmecin, T13	A36
Indane derivatives, A25, A41, A42, A49, A50, A53, A56, A22', A29', A38', A40', T7', Y7'	Isoishwarone, T23	Jateorin, T38
Indazoles, A14'	Isokidamycin, C1'	Jatropheone, T41
Indicaxanthin, K17	Isolaureatin, Y4'	Jervine, K35
Indole alkaloids, K8-17, K30	Isoleucine, A27	Jingullic acid, T43
Indoles, A20, A48, A55, A56, K8-17, K30, Y20, Y27, A37', K3-5', Z8'	Isolinderelactone, T20	Julimycin-BII, Y18
Indolines, A5	Isoleinic acid, K8'	Juniperol, T28
Indolizidines, A17'	Isolunine, K31	Juvabione, T2
Indolmycenic acid, Y27	Isolupanine, K21	Juvenile hormone, T58
Indolmycin, Y27	Isolysergic acid, K17	Kalafungin, Y3'
Ingenol, T39	Isomenthol, T4	Kanamycin A, C3
Inositol, A16	Isomenthone, T4	Kasugamycin, C3
Inosose, A16	Isomethylamine, T4	Kaurane, T35
Intermedol, T19	Isomethadols, A31	Kaurene, T33
Inumakilactone, T38	Isomethadone, A31	Kawain, Y4'
Ionones, T54	Isomitraphylline, K9	$\alpha$ -kessyl alcohol, T25
Ipecacuanha alkaloids, K2	Isomyodesmone, T1'	$\alpha$ -kessyl glycol, T25
Ipecoside, K2	Isoneomatobiol, T14	Ketohakonanol, T45
Ipsdienol, A11'	Isonepetalactone, T14	Ketohexoses, C2
Ipsenol, A4'	Isonootkatone, T23	Ketopentoses, C2
Iresin, T32	Isooleanonic acid, dimethyl ether, T42	Ketoses, C2
Iridadiene, T3	Isopapuanic acid, Y12	Ketotetroses, C2
Iridodial, T13	Isopatchoulane, T27	Khellactones, Y1
Iridomyrmecin, T13	Isopavine alkaloids, K1	Khivorin, T51
Iron compounds, X3, X8-9	Isopelletierine, K19	Khusimol, T27
Irones, T54	Isopeulustrin, Y1	Kidamycin, C1'
	Isophorbol triacetate, T39	Kinamycin C, Y11'
	Isophotoartemisin acetate, T21	Kolavenic acid, T37
	Isophotosantonic lactone, T22	Kolavenol, T37
	Isophyllocladene, T36	

## Subject Index

---

- Kolavic acid, T37  
 Kopsanone, K14  
 Kopsine, K14  
 Kreysiginine, K5  
 Kryptocapsin, T55  
 Kuromatsuol, T28  
 Kynurenine, A20  
 Laballenic acid, X1  
 Labdanolic acid, T36  
 Labelled compounds, X3, D1-2, D1-3'  
 Laburnine, K22  
 Laccijalaric acid, T29  
 Lactic acid, A1  
 Lactic aldehyde, A1  
 Lactide, A12'  
 Lactobionic acid, C1'  
 Lactose, C1'  
 Lambicin, T31  
 Lamprolobine, K21  
 Lampterol, T30  
 Lanceol, T2  
 Lankamycin, Y25  
 Lanosterol, T44  
 Lansic acid, T44  
 Lanthionine, A4  
 Lappaconine, K33  
 Lariciresinol, Y7  
 Laserol, T25  
 Laserpitine, T25  
 Lasiocarpic acid, K24  
 Lasiocoryin, T13'  
 Lathyrol, hydroxy-, T39  
 Latifolic acid, K8'  
 Latumcidin, Y30  
 Laudanosine, K3  
 Laureatin, Y4'  
 Laurencin, Y4'  
 Laurene, T12  
 Laurenisol, T12  
 Laurinterol, T12  
 Laurolenal, T11  
 Lavandulol, T2  
 Layered cyclophanes, X7'  
 $\alpha$ -lecithins, A15  
 Ledol, T26  
 Lemnacarnol, T3'  
 Leonotin, T37  
 Leontidine, K6'  
 Leontiformine, K21  
 Leontine, K24  
 Lepistine, K7'  
 Lespein, Y1'  
 Lesquerolic acid, A7  
 Leucic acid, A4'  
 Leucine, A20  
 Leucinol, A20  
 tert-leucinol, A4'  
 Leucodrin, Y6  
 Leucomycin A<sub>3</sub>, Y25  
 Leucothols, T11  
 Leurocristine, K15  
 Leurosidine, K15  
 Levopimaric acid, T32  
 Liatrin A, T29  
 Lichesterinic acid, A12'  
 Ligantrol, T1'  
 Lignans, T7-8, Y10'
- Ligularenolide, T23  
 Ligularol, T7'  
 Liguloxide, T25  
 Lilac alcohols, T1'  
 Limonene, T2  
 Limonin, T52  
 Limonoids, T52  
 Linalool, T3  
 Lincomycin, Y21  
 Lindelofidine, K22  
 Lindenene, T21  
 Lindenol, T21  
 Linderalactone, T20  
 Lindestrine, T21  
 Linearisine, K3  
 $\alpha$ -lipoic acid, A18  
 Lipoxamycin, Y25  
 Liquiritigenin, Y6  
 Litsenolides, Y5'  
 Littorine, K28  
 LL-D253 $\gamma$ , Y1'  
 LL-P880a, Y2'  
 LL-P880 $\beta$ , Y4'  
 Lobeline, K18  
 Loganin, T13  
 Loline, K8'  
 Lolinine, K8'  
 Loliolide, T18'  
 Lomatin, Y1  
 Longicycline, T28  
 Longifolene, T28  
 $\Psi$ -longifolic acid, T28  
 Lonomycin, Y6'  
 Lowe's Rule, X1, X4  
 Luciculine, K32  
 Luciduline, K26  
 Lucidusculine, K32  
 Luciferins, Y20, Y11'  
 Lumiphorbol triacetate, T39  
 Lunacridine, K10'  
 Lunacrine, K10'  
 Lunaridine, K20  
 Lunarine, K29  
 Lunarinols, K20  
 Lunasine, K10'  
 Lupanine, K21  
 $\alpha$ -lupene, T43  
 Lupanine, K21  
 Lutein, T55  
 Luteoskyrin, Y18  
 Lycoctonine, K33  
 Lycopidine, K25  
 Lycopecurine, K26  
 Lycopodine, K25  
 Lycopodium alkaloids, K25-26  
 Lycoramine, K6  
 Lycorenine, K6  
 Lycorine, dihydro-, K6  
 Lysergic acid, K17  
 Lysergine, K17  
 Lysergol, K17  
 Lysine, A10  
 $\beta$ -lysine, A11  
 Lysocellin, Y6'  
 Lythraceae alkaloids, K27  
 Lythramine, K20  
 Lythrancepine, K20  
 Lythrancine, K20  
 Lythranidine, K20  
 Lythranine, K20  
 Lythridine, K27  
 Lythrumine, K20  
 Lyxitol, C1  
 Lyxohexulose, C2  
 Lyxose, C1  
 Lyxulose, C2  
 Maackian, Y3  
 Maaliol, T19  
 Maalione, T8'  
 Macrocarpol, T28  
 Macrolide antibiotics, Y25-26,  
     Y13-15'  
 Macronecine, K22  
 Macronine, K6  
 Macusine A, K11  
 Magnamycin, Y25  
 Mahoganin, T53  
 Makisterone A, T16'  
 Maleopimaric acid, T32  
 Malic acid, A1  
 Malimide, A3  
 Mandelic acid, A21  
 Mandelide, A19'  
 Manganese compounds, X9  
 Manicone, A16'  
 Mannide, X11  
 Mannitol, A11  
 Mannose, C1  
 Manool, T34  
 Manoyl oxide, T34  
 Manthine, K6  
 Marasmic acid, T30  
 Marasin, X1  
 Marcumar, A26'  
 Marmesin, Y1  
 Marrubiin, T37  
 Matabether, T14  
 Matairesinol, Y7  
 Matrine, K24  
 Maytansine, Y13'  
 Mebanazine, A8'  
 Melaleucic acid, T43  
 Melampodin, T9'  
 Melanoxin, Y5  
 Melianone, T51  
 Melittoside, T15  
 Mellein, 5-methyl, Y2  
 Mellein, Y2  
 Mellitoxin, T31  
 Meloscine, K31  
 $p$ -menthane derivatives, T4-5  
 Menthiafolin, T13  
 Methofuran, C1  
 Menthol, A26  
 Menthone, C1  
 $ortho$ -menthone, T16  
 Menthylamine, T4  
 Menthyl chloride, T4  
 Mephenesin, A11'  
 Meroquinene, A32'  
 Mesembrenene, K20  
 Metabolite C, T17'  
 Metabolite LL-N313 $\zeta$ , T14'  
 Metallocenes, X3, X8, A14',  
     X2',

## Subject Index

---

- Metacyclophanes, X6', X9'  
 Metaparacyclophanes, X7'  
 Metasaccharonic acid, A16  
 Methadone, A18  
 Methionine, A8  
 Methionine sulphoxide, Z8  
 Methionine sulphoximine, Z8  
 4-methoxydalbergione, Y4  
 11-methoxyferruginol methyl ether, T33  
 Methyl acetolactate, A33  
 Methyl angolensate, T52  
 $\alpha$ -methylanhalonidine, K2'  
 $\alpha$ -methylaspartic acid, A40  
 3-methylaspartic acid, A28  
 Methylbenzoin, A51  
 $\alpha$ -methylcryptostolone iodide, K5  
 Methyldeoxybenzoin, A48  
 Methylhydrojasmonate, A36  
 Methylidihydrothebaine, K27  
 $\alpha$ -methyl DOPA, A40  
 $\alpha$ -methyldopamine, A4  
 $N$ -methyleudan, A55  
 4-methyleneproline, A17  
 3,4-methyleneproline, A30  
 Methyl homosecodaphniphyllate, K26  
 Methyl isopulegine, A39  
 O-methyllactic acid, A1  
 Methyllanthionine, A9'  
 $\beta$ -methylmalic acid, Y5  
 Methylmalonyl coenzyme-A, A28  
 5-methylmellein, Y2  
 $\alpha$ -methylphenylglycine, A40  
 3-methylproline, A27  
 Methyl santolinate, T3'  
 $\alpha$ -methylserine, A40  
 Methylsticin, Y3'  
 $\beta$ -methylterbic acid, A39'  
 Methyltetronic acid, A12'  
 Methyl thiolicosaminide, Y21  
 Methymycin, Y14'  
 Mevalonic acid, A33  
 Mexicanolide, T52  
 Mianserin, A10'  
 Milliamines, T39  
 Minovincine, K14  
 Mitomycins, Y27, Y12'  
 Mitragynine, K9  
 Mitraphylline, K9, K10  
 Miyaconitine, K33  
 Mocimycin, Y12'  
 Molephantin, T9'  
 Mollisacacidin, Y4  
 Monocrotallic acid, K23  
 Monoepoxylignans, T7-8  
 Monoglycerides, A14  
 Monogynol, T35  
 Monosaccharides, C1-4, Y21, Y24-26,  
     Y28, X1, C1'  
 Monoterpene, T1-T16, T1-3'  
 Monotropein, T15  
 Monspessaulanine, K21  
 Montanine, K6  
 Morellin, Y9  
 Morphine, K4  
 Morphine alkaloids, K4-5, K1'  
 Morphothebaine, K4  
 MTPA, A28'  
 Mucroquinone, Y3  
 Mukulol, T10'  
 Multifloramine, K2  
 Multiflorenol, T42  
 Muscarine, Y20  
 Muscone, A32  
 Mustakone, T18  
 Muurolenes, T18  
 Mycobactin, Y22  
 Mycosamine, Y26  
 Myochromanol, Y2'  
 Myochromanone, Y2'  
 Myodesmone, T3'  
 Myoporone, T3'  
 Myricanol, Y15  
 cis-myrtanol, T9  
 trans-myrtanol, T8  
 Myrtenal, T9  
 Myrtenol, T9  
 Nafenopin, A52  
 Nagilactone C, T38  
 Nanaomycins, Y4'  
 Naproxen, A13'  
 Naphthalene derivatives, A20, A25,  
     A39, A43, A48-A50, A52, A54,  
     A8', A13', A15', A19', A35'  
 Naphthalene-1, 2-epoxide, A25  
 Naphthalenophanes, X6'  
 Narciclasine, K1'  
 Narcissidine, K6  
 Narcotines, K3  
 Nardosinone, T26  
 Nardostachone, T23  
 Naringenin, Y6  
 Neblinine, K13  
 Necic acids, K23-24, K8'  
 Neoabietic acid, T32  
 Neocarvomenthol, T5  
 Neoclove, T6'  
 Neodihydrocarveol, T5  
 Neoflavanoids, Y4  
 Neogmelinol, Y7  
 Neointermedol, T19  
 Neoisocarvomenthol, T5  
 Neoisomenthol, T4  
 Neoisomenthylamine, T4  
 Neoisopinocampheol, T9  
 Neoisopulegol, T1'  
 Neoisothujyl alcohol, T7  
 Neoline, K9'  
 Neomatabol, T14  
 Neomenthol, T4  
 Neomenthylamine, T4  
 Neonepetalactone, T14  
 Neophorbol 13,20-diacetate, T39  
 Neopinocampheols, T9  
 Neosapogenins, T49  
 Neothujyl alcohol, T7  
 Neotigogenin, T49  
 Neoverbanol, T2'  
 Neovitamin B<sub>12</sub>, Y24  
 Neoxanthin, T55  
 Nepetaefolin, T37  
 Nepetalactone, T14  
 Nepetalic acids, T14  
 Nepetalinic acids, T13, T14, T4'  
 Nepetic acids, T13, T14  
 Nepetonic acids, T14  
 Neriaphin, Y10  
 Nerolidol, T3  
 Ngaione, T4'  
 Nic-10, T15'  
 Nicotine, K20  
 Nigericin, Y11  
 Nimbol, T33  
 Nimbin, T53  
 Nipecotinic acid, A30  
 Nitenin, T57  
 Nobilonines, K31, K9'  
 Nodosin, T33  
 Noformycin, A9  
 Nogalose, C4  
 Nojigiku alcohol, A33'  
 Nonadrides, T58  
 Nopinone, T2'  
 Nootkatane, T23  
 Nootkatone, T23  
 Noradrenaline, A22  
 Norambreinolide, T34  
 Norbornane derivatives, A46, A47,  
     T10, A23', A33'  
 Norbornan-2-one, A36  
 Norborneols, A46  
 Norcamphor, A36  
 trans-norcaryophyllenic acid, T6'  
 Norcedranone, T29  
 Nor-C-fluorocurarine, K12  
 Norcoralydine, K3  
 Nordavanone, T1'  
 $N$ -norlaudanosine, K3  
 Norleucine, A10  
 Normacusine, K11  
 Norseychellanone, T27  
 Norsolanadione, T10'  
 Nortriterpenoids, T45-48, T50-53,  
     T16'  
 Norvaline, A10  
 Novacine, K12  
 $N$ -oxides, Z3  
 Nuciferine, K3  
 Nucleosides, C4, C1'  
 Nupharamine, K24  
 Nupharidine, K24  
 Nutallin, Y1  
 Nyctanthic acid, T43  
 Obacunone, T51  
 Obscurines, K25  
 Obtusafuran, Y5  
 Obtusifolin, Y1'  
 Occidenol, T20  
 Occidentalol, T22  
 Occidol, T21  
 Ochotensimine, K1'  
 Ochotensine, K1'  
 Ochrofuanine, K3'  
 Ochrosandwine, K8  
 Ochratoxins, Y2  
 Ochrobirine, K1'  
 Octillol, T51  
 Octahydrodehydroxylinderene, T21  
 Octoclotheonin, A10'  
 Octoses, C3  
 Odoratin, T53

## Subject Index

---

- Odoratone, T51  
 Oleanane, T42  
 Oleandomycin, Y25  
 Oleanolic acid, T42  
 Oleuropein, T13  
 Olivil, Y7  
 Olivin, Y16  
 Oncinotine, K6'  
 Onocerins, T44  
 Ophiobolins, T41  
 Ophiocarpine, K3  
 Oplopanone, T18  
 Oppositol, T7'  
 Oreodine, K1  
 Organoarsenic compounds, Z3, Z2'  
 Organogeranium compounds, Z2  
 Organophosphorus compounds, A14,  
     A15, Z3-Z6, Z3-4'  
 Organosilicon compounds, Z1, Z1'  
 Oridonin, T33  
 Orientaline, K3  
 Orientalinone, K3  
 Oripavine, K4  
 Ormosamine, K6'  
 Ornithine, A11  
 Oroselol, dihydro-, Y1  
 Oryzoxymycin, Y14  
 Osmundalactone, Y5'  
 Osmundalin, Y5'  
 Ostruthol, T57  
 Otonecine, K24  
 Oudenone, Y5'  
 Ovalicine, T31  
 2-oxabrendane, X10'  
 Oxadiazoles, A13', A22'  
 Oxathianes, A6'  
 2-oxa-*twist*-brendane, X10'  
 Oxazepam, A1'  
 Oxaziridines, Z2'  
 Oxazolidines, A8, A19, A21, A23,  
     A24, A13'  
 Oximes, X4  
 Oxindole alkaloids, K9-10  
 Oxindoles, A56  
 6-oxoleucotylin, T45  
 4-oxopipeolic acid, A10  
 4-oxoproline, A17  
 Oxypeucedanin, T57  
 Oxytetracycline, Y28
- Pachydictyol A, T13'  
 Pachysandiol, T47  
 Pacifenol, T30  
 Paeoniflorim, T3'  
 Palasonin, Y9'  
 Pallescenin G, T3'  
 Palmarin, T38  
 Palustric acid, T32  
 Palustrine, K6'  
 Panamine, K6'  
 Panaxadiol, T51  
 Pancuronium bromide, T47  
 Panepoxydon, Y19  
 Pantoic acid, A3'  
 Pantolactone, A3'  
 Papuanic acid, Y12  
 Paraconic acid, T15
- Paracyclophanes, X6-8'  
 Paravallarine, K34  
 Parthemollin, T3'  
 Parthenin, T24  
 Patchouli alcohol, T27  
 Patchoulypyridine, T27  
 Pavine alkaloids, K1  
 Pederin, Y20  
 Pelletierine, K19  
 Peltogynols, Y4  
 Peltogynone, trio-O-methyl, Y4  
 Penicillamine, A4  
 Penicillins, Y29  
 Penniclavine, K17  
 Pentacyclic triterpenes, T42-45  
 Pentahelicene, X6'  
 Pentalenolactone, T30  
 Pentenomycin I, A25'  
 Pentitols, C1  
 Pentobarbital, A28'  
 Pentoses, C1  
 Perakin, K11  
 Peraksine, K11  
 Perezinone, T1  
 Perezone, T1  
 Perhydroanthracenes, A34'  
*trans*-perhydroindan-2-one, A37  
*trans*-perhydroindan-5-one, A37  
 Perhydroindanes, A53  
 Perhydrotriphenylene, X10  
 Perillaldehyde, T8  
 Perillyl alcohol, T8  
 Perivine, K11  
 Peroxycamphoric acid, K10'  
 Petasalbine, T23  
 Petasin, T23  
 Pharbitic acid, T11'  
 Phaseic acid, T17'  
 Phellandrenes, T2  
 Phenadoxone, A18  
 Phenampromid, A13  
 Phenanthrene derivatives, A24, A37',  
     A39'  
 Phenoxymethylanhydropenicillin, Y29  
 Phenylalanine, A5  
 N-phenylalanine, A13  
 $\beta$ -phenylglycidic acid, A19  
 Phenylglycine, A23  
 Phenylserine, A19  
 $\beta$ -phenylserine, A21  
 Phenylisoserines, A19, A8'  
 Phenyltetrahydroisoquinoline alkaloids, K1  
 Phomenone, T7'  
 Phomin, Y27  
 Phorbic acid, A22'  
 Phorbol, T39  
 Phosphatidic acids, A15  
 Phosphatidylglycerol, A15  
 Phosnomycin, Y20  
 Phosphorus compounds, A14, A15,  
     Y20, Y24, X10, Z3-Z6, Z3-4'  
 Photothebainehydroquinone, K4  
 Phthalideisoquinoline alkaloids, K3  
 Phthalides, A51  
 Phthalimides, A9  
 Phyllantidine, K18  
 Phyllocladene, T36
- Phyllodulcin, Y6  
 Phylloquinone, T55  
 Physalins, T53  
 Physovenine, K30  
 Phytol, T56  
 Phytostigmine, K30  
 Picraline, K12  
 Picraphylline, K9  
 Picrasin A, T53  
 Picrococin, T18'  
 Picromycin, Y25  
 Picrosalvin, T33  
 Picrotoxinin, T31  
 Piericidin A, Y30  
 Pillaromycin, Y28  
 Pillaronone, Y28  
 Pilocarpine, K10'  
 Pilosinine, K10'  
 Pimaricin, Y25  
 Pimaric acid, T32  
 Pinacolyl alcohol, A12  
 Pinenes, T8  
 Pinguisone, T7'  
 Pinitol, A16  
 Pinidine, K19  
 Pinocampheol, T9  
 Pinocamphone, T9  
*trans*-pinocarveol, T9  
 Pinocarvone, T9  
 Pinonic acid, A31'  
 Pinononic acid, T8  
 Pinoresinol, Y7  
 Pipecolic acid, A10  
 Piperazic acid, A11  
 Piperidines, A5, A10, A11, A13, A26,  
     A30, A34, K18-20, Y21, Y29, X4,  
     A9-10', A17-18', A30', A37',  
     A39-40'  
 Piperinic acid, T1  
 Piperitenone oxide, T4  
 Piperitols, T4  
 Piperitone, T2  
 Piperitone oxide, T4  
 Pipitzols, T1  
 Piptamine, K6'  
 Piptanthine, K6'  
 Piptoside, Y2'  
 Pisatin, Y3  
 Piscidic acid, A30  
 Platicodigenin, T45  
 Platodesmine, K31  
 Platynecine, K22  
 Plenolin, T9'  
 Pleuromutilin, T13'  
 Plicatic acid, Y7  
 Plinols, T3  
 Plumericin, T16  
 Plumieride, T16  
 Pluviine, K6  
 Podocarpic acid, T33  
 Podolactones, T38  
 Podopetaline, K6'  
 Polyether antibiotics, Y11, Y6'  
 Polyporenic acid A, T50  
 Polyzonimine, K8'  
 Pompenes, T8'  
 Ponasterone, T48  
 Poranthericine, K7'

## Subject Index

---

Porantheridine, K7'	Pyroglutamic acid, A9	Sabina hydrate, T7
Porantherine, K29	Pyroheteratisine, K33	Sabina ketone, T7
Porphyrins, Y23	Pyronimbic acid, T53	Sabinene, T7
Portentol, Y15	Pyrrocolines, K5	Sabinol, T7
Portugal, T40	Pyrrolizidines, K22, K24, A9'	Sakuranetin, Y6
Practolol, A11'	Quassinooids, T53	Salsolidine, K2
Prehelminthosporol, K9'	Quebrachamine, K13	Salutaridinol I, K4
Preisocalamendiol, T22	Quercitols, A16	Salvin, T33
Prenylamine, A17'	Quinamine, K8	Samandarine, K9'
Prenylsolanone, T10'	Quinazolines, A37	Sandaracopimaric acid, T32
Presqualene alcohol, T14'	Quinic acid, A26	<i>a</i> -santalal, T28
Pretoxin, T31	Quinidine, K8	Santalenes, T28
Prezizaene, T29	<i>epi</i> -quinidine, K8	<i>a</i> -santalol, T28
Pristimerin, T45	Quinine, K8	Santanolide C, T22
Pristimerol, T45	<i>epi</i> -quinine, K8	Santonina alcohol, T17
Proaporphine alkaloids, K3	Quinolines, A5, A25, A56, Y11 A29', K6', K10'	Santonins, T21, T22
<i>a</i> -prodine, A18'	Quinolizines, A5, A15	Sapogenins, T49
Prodinols, A18'	'Quinone A', Y10	Sarin, Z3'
Proline, A11	Quintoxine, K8	Sarkomycin, A36
Prolinol, A17	Quinoxalines, A8, A23'	Sarpagine, K11
Pronuciferine, K3	Quinuclidinol, A10'	Sarsapogenin, T49
Propanolol, A12'	Radicals, A18', A29'	Sativene, T28
Propoxyphene, A18'	Ranunculin, A12'	Saxitoxin, Y12'
19-propylthevinol, K4	Rauvoxinine, K10	Scabequinone, Y1'
Prostaglandins, Y8'	Reserpine, K9, K10	Sceletium alkaloid A4, K20
Prostanoic acid, A25'	Retamine, K21	Schellhammericine, K7
Protoanemonin, A12'	Reticulatoxanthin, T55	Schellhammeridine, K7
Protoaphins, Y10	Retigeranic acid, T13'	Schellhammerine, K7
Protoemetine, K2	Retigeric acid, T15'	Scillarenin, T49
Protostanes, T50, T15'	Retronecanol, K22	Sclareol, T34
Protostemonine, K29	Retronecanone, K22	Scleratinic acid, K8'
Protoverine, K35	Retronecine, K22	Sclerotiorins, Y11
Pseudoanisatin, T30	Retuline, K13	Scopolamine, K28
Pseudoclovenes, T6'	Retusamine, K24	Secalonic acids, Y17
Pseudoconhydrine, K19	Rhamnose, Y5'	Secodaphniphylline, K26
Pseudocopsinine, K4'	Rhazidine, K13	Secoisolariciresinol, Y7
Pseudoecgonine, K28	Rhazinilam, K4'	Secologanin, T13
Pseudoguaianolides, T24, T9'	Rhododactynaphins, Y10	Securinine, K18
Pseudoheliotridane, K22	Rhodomycinones, Y10'	Sedamine, K19
Pseudohygroline, K19	Rhoeadine alkaloids, K1	Sedridine, K19
Pseudoivalin, T9'	Rhoeadine, K1	Selenium compounds, A18
Pseudowiddrene, T4'	Rhoeagenine, K1	Selinane, T19
Pseudoyohimbane, K10	Rhyncophylline, K9	Selinenes, T19
Pseurotin, Y12'	Ribitol, C1	Semi- <i>a</i> -carotene, T54
Psicose, C2	Ribohexulose, C2	Sempervirol, T12'
Pterocarpans, Y3, Y1'	Ribose, C1	Senecic acid, K23
Pterocarpin, Y3	Ribulose, C2	Seneciphylic acid, K23
Pterosins, Y7'	Ricinoleic acid, A7	Seneol, Y19
Pulchellins, T24, T9'	Rifamycins, Y26	Senepoxide, Y19
Pulchellone, T9'	Rimuene, T34	Septamycin, Y6'
Puleganolic acid, T15	Rishitin, T22	Septicine, K5'
Pulegene, T7	Roseonine, Y14'	Sequirins, Y9, Y10'
<i>trans</i> -pulegenic acid, A38	Rosenonolactone, T34	Serine, A4
Pulegone, A38	Rose oxide, T1'	Serpentine, K9
Pulvilloric acid, Y13	Rosmarinecine, K22	Serpentinine, K2'
Pumiliotoxin C, K6'	Rotenoids, Y1	Serratenolone, T44
Purines, Y21	Rotenone, Y1	Serratidine, K25
Purpurogenone, Y17	Rotundone, T25	Serratinidine, K25
Putranjic acid, T16'	$\beta$ -rotunol, T7'	Serratinine, K25
Pyrazolines, A6, A2', A29'	Royleanone, T12'	Serratine, K25
Pyrethric acid, A35	Rubenine, K4'	Sesquicarene, T6
Pyrethrins, T17, A35'	Rubixanthin, T55	Sesquiphellandrene, T2
Pyrethrolone, T17	Rubroskyrin, Y18	Sesquiterpenes, T16-32, T1-10'
Pyrethrosin, T21	Rugulosin, Y18	Sesterterpenes, T41, T13'
Pyridomycin, Y26	Ryanodine, T58	Setoclavine, K17
Pyrimidine derivatives, A55, Y21		Sewarine, K4'
Pyrocin, A35		Seychellene, T27
Pyroclavine, K17		Shamixanthone, Y2'

## Subject Index

Shikimic acid, A26	Streptoviral C, Y14'	Tetrahydro- <i>epi-a</i> -cyperone, T20
Shionone, T42	Streptomycin, C4	$\beta$ -tetrahydro- $\beta$ -erythroidine, K7
Shiromodiol, T20	Strictosidine, K2	Tetrahydrofurans, A6, A30, T17,
Showdomycin, C4	Strychindole, K12	Y7-8, Y11, Y15, Y20, A2-3',
Shyobunone, T22	Strychnine, K12	A15-16'
Siccanin, T32	Strychnos alkaloids, K12	Tetrahydroharman, K16
Sideritol, T12'	Styrene oxide, A22	Tetrahydroharmine, K16
Silanes, Z1, Z1'	Sugiresinol, Y9	Tetrahydroisoquinoline alkaloids, K1-2
Silicon compounds, Z1, Z1'	Sugiresinone dimethyl ether, Y9	Tetrahydrolinalool, T3
Simarolide, T53	Sulphides, A1, A4, A8, A12, A17-18,	Tetrahydroprotoberberine alkaloids,
Sinigrin, C4	A21, A23, A28, A33-34, Y24, X4,	K3
Sinomenine, K4	X10-11, A6', A13', A19-20'	Tetrahydroquinolines, A5, A56, A14'
Sinulariolide, T10'	Sulphinates, Z8, Z5'	Tetrahydroquinoxalines, A8
Sirenin, T6	Sulphinimides, Z8, Z6-7'	Tetrahydrosaussurea lactone, T20
Sisaustricin, A8	Sulphones, A12, A17, A22, D2, A6',	Tetrahydroseneciphyllic acid, K23
Skytanthines, T14	A13', D3', Z5'	Tetrahydrosolanone, T58
Slaframine, K5'	Sulphonium salts, Z7	Tetrahydrothiophenes, A19'
Smilagenin, T49	Sulphorophan, Z8	Tetrahymanol, T44
Solacongestidine, K34	Sulphoxides, Z7-8, A6', D3', Z5-8'	Tetralins, A20, A25, A43, A49, A50,
Solanidine, T49	Sulphoximines, Z8, Z6'	A52, Y8, Y17, A7', A22', A29-30',
Solanocapsine, K34	Supinidine, K22	A35', T7', Y10'
Solanone, T58	Suprasterol III, T48	Tetramisole, Y30
Solaphyllidine, K36	Surugatoxin, Y15'	Tetrandrine, K1'
Solasodine, K34, T49	Swazine, K8'	Tetraterpenes, T54-55, T17-18'
Solidagenone, T37	Sweroside, T13	Tetrazines, A13', A22'
Solsitalin, T24	Swietenine, T52	Tetroses, C1
Songorine, K32	Swietenolide, T52	Teuividin, T13'
Sophorol, Y1'	Sylvestrene, T6	Teucvin, T13'
Sorbose, C2	Synephrine, A22	Thaliphene, K1'
Sparsomycin, Y20	Tabersonine, K13	Theanine, A9
Sparteine, K21	Taburnaemontine, K4'	Theaspirone, T17'
Spectinomycin, Y12'	Tachysterol III, T40	Thebaine, K4
Spergulagenin A, T15'	Tagatose, C2	Thelepogine, K31
Spermostychnine, K12	Tajixanthone, Y2'	Thermopsine, K21
Sphaerococcenol A, T13'	Talbotine, K16	Thiaadamantanes, A33'
Spinacin, A20	Talitol, C1	Thiabicyclic systems, A17, A23'
Spiradine A, K32	Talose, C1	Thianaphthenes, A48
Spiramycin, Y25	TAPA, A11'	Thietanes, A22
Spirobiindanes, X2'	Taraxasterol, T43	Thiirans, A14, A21-23, A22'
Spiro compounds, A44, T26, T29, K6, K9-10, X4, X9, X11, A24', A33', X2-3'	Taraxerol, T43	Thiobinupharidine, K7'
Sporidesmin, Y24	Tartaric acid, A2	Thiocyanates, A16'
Stachane, T35	Tartrimide, A2	Thiodiisobutyric acid, A34
Stachene, T35	Tauranin, T36	Thiodilactic acid, A1
Steganacin, Y10'	Taxicins, T40	Thiolactic acid, A1
Steganol, Y10'	Taxifolin, Y4	2-thiolhistidine, A20
Stemarin, T13'	Taxinine, T40	Thiols, A1, A4, A13, A14, A20, A32, A6', A19'
Stemodinone, T13'	Taxol, T40	Thiones, A8
Stemofoline, K29	Tazettine, K6	Thionuphlutines, K7'
Stemonine, K29	Tecomamine, K31	Thiophanes, A18
Stenine, K29	Templeteine, K5'	Thiophenes, A21, A28, A43, A50, A15'
Stenocarpoquinone, Y2'	Terebic acid, A35	Threitol, C1
Stepharine, K3	$\alpha$ -terpineol, T1	Threonine, A8, A24
Stephavanine, K5	Terramycin, Y28	Threopentulose, C2
Stercobilin, Y23	Terreic acid, Y19	Threose, C1
Sterigmatocystin, Y13	Terrein, Y16	Threulose, C2
Steroidal alkaloids, K34	Terremutin, Y19	Thujanes, T7
Steroids, A18, A53, T20, T23, T26, T27, T32, T35, T36, T38, T40, T46-51, K34-6, A38', T12', T15-16', K9', Y9'	tert-butylglycine, A24	Thujan-2-one, T7
Steviol, T35	tert-leucinol, A24	Thujastandin, Y7
Stigmasterol, T48	Testosterone, T32	Thujone, T7
Streptolic acid, Y11'	Tetracyclines, Y28	Thujopsene, T4'
Streptolidine, Y14'	Tetradymol, T7'	Thujyl alcohol, T7
Streptomycin, C4	cis-tetrahydroactinidiolide, T54	Thunberganes, T41, T10'
Streptovaricin, Y14'	Tetrahydroalantolactone, T21	Thyronine, A5

## Subject Index

---

Tirandamycin acid, Y11'	Tylosin, Y25	Viomycidine, Y22
Tirandamycin, Y11'	Tyrosine, A5	Viomycin, Y22
Tirucallol, T46	$\beta$ -tyrosine, A10'	Viridifloric acid, K24
$\alpha$ -tocopherol, T56	Tyrosinol, A5	Viridiflorol, T26
Todomatuic acid, T2		Virosecurinine, K18
Tolpomycinones, Y26	Umbellularic acids, A54	Visamminol, Y1
Tomatidine, T49	Umbellulone, T7'	Vitamin B12, Y24
Tomatillidine, K34	Uridine, C4	Vitamin B12 monocarboxylic acid, Y24
Torilin, T21	Urobilin, Y23	Vitamin E, T56
Torreyol, T18	Ursolic acid, T42	Vitamin K <sub>1</sub> , T56
Torulosol, T34	Usnic acid, Y10'	Voacapenic acid, T12'
Totalol, T32	Utilin, T52	Voacarpine, K11
Toxol, Y1		Vobasine, K11
Trachelanthamidine, K22	Valerenone, T19	Vobtusine, K3'
Trachelanthamidinic acid, K22	Valerianol, T7'	Vomicine, K12
Trachelanthic acid, K24	Valeroidine, K28	Vomifoliol, T17'
Trachylobanic acid, T35	Validatol, A31'	Vomilenin, K11
Trehalose, C1'	Valienamine, A31'	Vulgarin, T22
Tremetone, Y1	Valine, A4	
Triazoles, A22'	Valinol, A4	Wallichoside, Y7'
Trichodesmic acid, K23	Vallesamidine, K13	Warburgiadione, T23
Trichothezin, T31	Veatchine, K32	Warfarin, A26'
Trichotomine, K3'	Venoterpine, K9'	Widdrol, T4'
Trichoviridine, Y11'	Venturicidins, Y13'	Wieland-Gümlich aldehyde, K12
Tricyclovetivenol, T27	Veprisone, T52	Withaferin A, T48
Tridentoquinone, Y10'	Veralkamine, K34	Withanolides, T48
Triflorizin, Y3	Verapamil, A36'	Wortmannin, T15'
Triglycerides, A14	Verbanone, T2'	
Triiodothyronine, A5	Veratramine, K35	Xanthanolides, T24
Tri-O-methylpeulgynone, Y4	Veratrenone, K9'	Xanthenol, T24
Tri-ortho-thymotide, X11'	Veratrobasine, K35	Xanthnin, T24
Tripdiolide, T13'	Verbanone, T8	Xanthoaphins, Y10
Triphenylenes, X10	Verbenalin, T13	Xanthodactynaphins, Y10
Triptemeperidine, A18'	Verbenols, T8	Xanthomegnin, Y2
Triptycenes, X4'	Verbenone, T8	Xanthones, Y2'
Triquinacenes, X4'	Verrucarin A, T31	Xanthoxin, T17'
Trisporic acids, Y19	Verrucarinic acid, T31	Xanthophyll, T18'
Triterpenes, T42-53, T15-16'	Verrucarol, T31	Xanthumin, T24
Tritiated compounds, D1-2	Verruculotoxin, K6'	Xylitol, C1
Tröger's Base, X11	Vertaline, K27	Xylohexulose, C2
Tropane alkaloids, K28	Verticillatine, dihydro-, K27	Xylose, C1
Tropic acid, A41	Verticillins, Y11'	Xylulose, C2
Tropinic acid, A9	Verticinone, K35	
Tropin-2-one, K28	Vertisporin, T6'	Ylangocamphor, T28
Tryptophan, A20	Vespirenes, X11	Yohimbane, K10
Tubaic acid, dihydro-, Y1	Vespiroles, X11	Yohimbe alkaloids, K9-10
Tubercidin, C1	Vetiselinol, T19	Yohimbine, K9
Tuberculostearic acid, A32	Vetispirenes, T2'	<i>epi-a</i> -yohimbine, K9
Tuberoin, Y1'	$\beta$ -vetivone, T2'	16-yohimbone, K9
Tuberostemonine, K29	Viburnitol, A16	
Tubifoline, K12	Victoxinine, K9'	Zearalenone, Y14
Tubocurarine, K2'	Vincoblastine, K15	Zeaxanthin, T55
Tubocurine, K2'	Vincadifformine, K13	Zeylanine, T20
Tubotaiwin, K12	Vincamine, K16	Zierone, T8'
Tubulosine, K2	Vincaminoreine, K13	Zingiberene, T2
Turmerone, T16	Vincoside, K2	Zizanin A, T41
Tutin, T31	Vincristine, K15	Zizanoic acid, T27
Twistane, X10'	Vindolinine, K3'	Zonarene, T22
<i>twist</i> -brendanes, X10'	Vinhaticoic acid, T12'	Zygadenine, K35
Twistene, X10'	Viocidic acid, Y22	Zygosporin A, Y12'
Tylophorine, K5'	Violaxanthin, T55	

# Formulae Index

---

*Isotopically labelled compounds.* In this index, deuterium and tritium are given as D and T respectively and treated as heteroatoms for the purpose of indexing.

## C<sub>2</sub>

- C<sub>2</sub>H<sub>2</sub>C1FO<sub>2</sub>  
Chlorofluoroacetic acid, A'1.2
- C<sub>2</sub>H<sub>2</sub>DO<sub>2</sub>T  
[<sup>2</sup>H,<sup>3</sup>H]-Acetic acid, D2.4
- C<sub>2</sub>H<sub>3</sub>DO<sub>3</sub>  
[2-<sup>2</sup>H]-Glycollic acid, D2.1
- C<sub>2</sub>H<sub>3</sub>O<sub>3</sub>T  
[2-<sup>3</sup>H]-Glycollic acid, D2.2
- C<sub>2</sub>H<sub>4</sub>DNO<sub>2</sub>  
[2-<sup>2</sup>H]-Glycine, D'1.12
- C<sub>2</sub>H<sub>4</sub>NO<sub>2</sub>T  
[2-<sup>3</sup>H]-2-Aminoacetic acid, D2.6
- C<sub>2</sub>H<sub>5</sub>DO  
[1-<sup>2</sup>H]-Ethanol, D1.10
- C<sub>2</sub>H<sub>5</sub>O<sub>2</sub>T  
[1-<sup>3</sup>H]-Ethane-1,2-diol, D2.3

- C<sub>2</sub>H<sub>6</sub>C1OPS  
*O*-Methyl methylphosphonochloridothionate, Z'3.17
- C<sub>2</sub>H<sub>6</sub>DN  
[1-<sup>2</sup>H]-1-Aminoethanol, D2.7
- C<sub>2</sub>H<sub>7</sub>O<sub>2</sub>PS  
*O*-Methyl methylphosphonothioic acid, Z'3.13

## C<sub>3</sub>

- C<sub>3</sub>H<sub>4</sub>D<sub>2</sub>  
[1,2-<sup>2</sup>H<sub>2</sub>]-Cyclopropane, D'2.11
- C<sub>3</sub>H<sub>4</sub>O<sub>2</sub>S  
Thiiran-2-carboxylic acid, A'22.3
- C<sub>3</sub>H<sub>5</sub>BrO<sub>2</sub>  
2-Bromopropionic acid, A1.14
- C<sub>3</sub>H<sub>5</sub>BrO<sub>3</sub>  
3-Bromo-2-hydroxypropionic acid, A1.4
- C<sub>3</sub>H<sub>5</sub>ClO<sub>2</sub>  
2-Chloropropionic acid, A1.14
- C<sub>3</sub>H<sub>5</sub>DO  
[2-<sup>2</sup>H]-Propionaldehyde, D1.9

- C<sub>3</sub>H<sub>5</sub>DO<sub>2</sub>  
[2-<sup>2</sup>H]-Propionic acid, D1.13
- C<sub>3</sub>H<sub>5</sub>D<sub>3</sub>O  
[1-<sup>2</sup>H<sub>3</sub>]-Propan-2-ol, D'2.1
- C<sub>3</sub>H<sub>5</sub>F<sub>3</sub>O  
1,1,1-Trifluoropropan-2-ol, A12.2
- C<sub>3</sub>H<sub>5</sub>IO<sub>2</sub>  
2-Iodopropionic acid, A1.14
- C<sub>3</sub>H<sub>5</sub>N<sub>3</sub>O<sub>2</sub>  
2-Azidopropionic acid, A1.19
- C<sub>3</sub>H<sub>5</sub>O<sub>2</sub>T  
[2-<sup>3</sup>H]-Propionic acid, D1.17
- C<sub>3</sub>H<sub>6</sub>Cl<sub>2</sub>  
1,2-Dichloropropane, A13.10
- C<sub>3</sub>H<sub>6</sub>C1N  
1-Chloro-2-methylaziridines, A'14.6
- C<sub>3</sub>H<sub>6</sub>CINO<sub>2</sub>  
2-Amino-3-chloropropionic acid, A4.8
- C<sub>3</sub>H<sub>6</sub>O  
1,2-Epoxypropane, A13.15
- C<sub>3</sub>H<sub>6</sub>O<sub>2</sub>  
Lactic aldehyde, A1.9
- C<sub>3</sub>H<sub>6</sub>O<sub>2</sub>S  
Thiolactic acid, A1.15
- C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>  
2-Mercaptopropionic acid, A12.10
- C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>  
Lactic acid, A1.9
- C<sub>3</sub>H<sub>6</sub>O<sub>4</sub>  
Glyceraldehyde, A1.1
- C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>S  
2-Hydroxy-3-mercaptopropionic acid, A12.6
- C<sub>3</sub>H<sub>6</sub>O<sub>4</sub>  
Glyceric acid, A1.2
- C<sub>3</sub>H<sub>6</sub>S  
2-Methylthiiran, A14.2
- C<sub>3</sub>H<sub>7</sub>BrO  
1-Bromopropan-2-ol, A14.13
- C<sub>3</sub>H<sub>7</sub>ClO  
2-Chloropropan-1-ol, A13.6

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_3H_7DO$	$C_4H_5Cl_2NO_2$
[2- <sup>2</sup> H]Propan-1-ol, D'2.4	2-Amino-4,4-dichlorobut-3-enoic acid, A'5.2
$C_3H_7N$	$C_4H_5DO_2$
2-Methylaziridine, A'14.9	[2- <sup>2</sup> H]-Cyclopropanecarboxylic acid, D'2.9
$C_3H_7NO_2$	$C_4H_5DO_4$
Alanine, A1.18	[2- <sup>2</sup> H]-succinic acid, D1.14
$C_3H_7NO_2S$	$C_4H_5DO_5$
Cysteine, A4.11	[3- <sup>2</sup> H]-2-hydroxysuccinic acid, D1.13
$C_3H_7NO_3$	$C_4H_5D_3O$
Isoserine, A1.3	[3,3,3- <sup>2</sup> H <sub>3</sub> ]-Isobutyraldehyde, D'2.15
Serine, A4.3	$C_4H_5D_3O_2$
$C_3H_7O_4P$	[3,3,3- <sup>2</sup> H <sub>3</sub> ]-Isobutyric acid, D'2.13
Phosphonomycin, Y20.2	$C_4H_5NO_3$
$C_3H_8ClNO$	3-Hydroxypyrrolidin-2,5-dione, A3.6
1-Amino-3-chloropropan-2-ol, A'12.11	$C_4H_5NO_4$
$C_3H_8ClOPS$	3,4-Dihydroxypyrrolidin-2,5-dione, A2.7
O-Methyl ethylphosphonochloridothionate, Z'3.7	Aziridine-2,3-dicarboxylic acid, A'7.3
O-Ethyl methylphosphonochloridothionates, Z'3.17	$C_4H_6Cl_3NO_2$
	2-Amino-4,4,4-trichlorobutyric acid, A'5.1
$C_3H_8N_2O_2$	$C_4H_6O$
2,3-Diaminopropionic acid, A4.7	But-3-yn-2-ol, A13.7
2-Hydrazinopropionic acid, A'14.8	$C_4H_6O_2S$
$C_3H_8OS$	Thiiran-2-carboxylic acid methyl ester, A'22.3
2-Mercaptopropan-1-ol, A14.15	$C_4H_6O_3$
Ethyl methyl sulphoxide, Z'8.10	2,3-Epoxybutyric acid, A24.1
$C_3H_8OS_2$	Propane-1,2-diol carbonate, A14.5
2,3-Dimercaptopropan-1-ol, A14.9	$C_4H_6O_4$
$C_3H_8O_2$	Glycerol-1,2-carbonate, A15.7
Propane-1,2-diol, A14.8	$C_4H_6O_5$
2,3-Epoxybutan-1-ol, A24.4	Malic acid, A1.25
$C_3H_8O_2S$	$C_4H_6O_2S$
3-Mercaptopropane-1,2-diol, A14.6	4-Methylthiete-1,1-dioxide, A22.17
$C_3H_9NO$	$C_4H_6O_2S_2$
1-Aminopropan-2-ol, A22.4	1,2-Dithiolane-3-carboxylic acid, A18.1
Alaninol, A19.13	$C_4H_6O_4S$
$C_3H_9O_2PS$	Mercaptosuccinic acid, A2.8
O-Methyl ethylphosphonothioic acid, Z'3.12	$C_4H_7BrO_2$
O-Ethyl methylphosphonothioic acid, Z'3.13	2-Bromobutyric acid, A8.12
$C_3H_9O_6P$	3-Bromo-2-methylpropionic acid, A34.9
Glycerophosphoric acid, A14.11	$C_4H_7Cl$
$C_3H_{10}N_2$	3-Chlorobut-1-ene, A1.20
1,2-Diaminopropane, A19.6	$C_4H_7ClO_2$
	2-Chlorobutyric acid, A8.12
	3-Chlorobutyric acid, A22.7
<b>C<sub>4</sub></b>	$C_4H_7ClO_3$
$C_4H_3D_3O_4$	3-Chloro-2-hydroxy-2-methylpropionic acid, See T'9.11
[2- <sup>2</sup> H <sub>2</sub> , 3- <sup>2</sup> H]-Succinic acid, D2.10	$C_4H_7Cl_2NO_2$
$C_4H_4Cl_2O_4$	Armentomycin, A'5.1
2,3-Dichlorosuccinic acid, A2.15	$C_4H_7DO$
$C_4H_4O_5$	[3- <sup>2</sup> H]-Butan-2-one, D1.11
2,3-Epoxsuccinic acid, A2.10	$C_4H_7N$
$C_4H_5BrO_4$	3-Aminobut-1-yne, A'14.3
Bromosuccinic acid, A4.1	$C_4H_7NO$
$C_4H_5ClO_4$	3-Hydroxybutyronitrile, A6.4
Chlorosuccinic acid, A4.1	4-Methylazetidin-2-one, A19.12
$C_4H_5ClO_5$	
Chloromalic acids, A2.5, A2.9	

## Formulae Index

---

$C_4H_7NO_2$	
3-Hydroxy-2-pyrrolidone, A9.5	
4-Hydroxy-2-pyrrolidone, A2.17	
4-Methyl-2-oxazolidone, A19.16	
Azetidine-2-carboxylic acid, A'5.8	
$C_4H_7NO_4$	
Aspartic acid, A4.6	
$C_4H_7NO_5$	
2-Amino-3-hydroxysuccinic acid, A'7.4	
$C_4H_8BrCl$	
3-Bromo-1-chlorobutane, A'5.14	
2-Bromo-3-chlorobutanes, A'5.16, A'5.17	
$C_4H_8BrD$	
[3- <sup>2</sup> H]-2-Bromobutane, D2.14	
$C_4H_8BrN$	
1-Bromo-2-methylazetidine, A'17.8	
$C_4H_8Br_2$	
1,3-Dibromobutane, A22.15	
1,2-Dibromobutane, A'5.11	
2,3-Dibromobutane, A'5.13	
$C_4H_8CID$	
[1- <sup>2</sup> H]-1-Chlorobutane, D1.3	
$C_4H_8N_2O$	
3-Amino-2-pyrrolidone, A9.17	
$C_4H_8N_2O_3$	
Asparagine, A4.5	
Isoasparagine, A20.17	
Malamide, A1.25	
$C_4H_8O$	
1,2-Epoxybutane, A13.13	
2,3-Epoxybutane, A13.8	
But-1-en-3-ol, A1.6	
$C_4H_8OS$	
Allyl methyl sulphoxide, Z7.13	
Crotyl methyl sulphoxide, Z7.14	
$C_4H_8O_2$	
3-Hydroxy-2-methylpropanal, A28.7	
2,3-Epoxybutan-1-ol, A24.4	
$C_4H_8O_2S$	
2-Methylthietane-1,1-dioxide, A22.16	
$C_4H_8O_2S_2$	
4,5-Dihydroxy-1,2-dithiane, A2.3	
$C_4H_8O_3$	
2-Hydroxybutyric acid, A1.22	
3-Hydroxybutyric acid, A6.4	
3-Hydroxy-2-methylpropionic acid, A28.12	
2-Methoxypropionic acid, A1.8	
Lactic acid, methyl ester, A1.9	
$C_4H_8O_4$	
Threose, C1.11	
Erythrose, C1.12	
2,3-Dihydroxybutyric acids, A24.6, A24.8	
2,4-Dihydroxybutyric acid, A3.10	
Glycerotetrulose, C2.7	
$C_4H_8O_5$	
2,3,4-Trihydroxybutyric acid, A3.12	
$C_4H_9Br$	
2-Bromobutane, A1.11	
$C_4H_9BrO$	
1-Bromobutan-2-ol, A1.17	
4-Bromobutan-2-ol, A1.13	
2-Bromobutan-1-ol, A'5.10	
3-Bromobutan-2-ol, A'5.12	
$C_4H_9Cl$	
2-Chlorobutane, A1.11	
$C_4H_9ClO$	
3-Chlorobutan-2-ol, A13.9	
$C_4H_9D$	
[2- <sup>2</sup> H]-Butane, D1.20	
$C_4H_9DO$	
[1- <sup>2</sup> H]-Butane-1-ol, D1.7	
[3- <sup>2</sup> H]-Butan-2-ol, D1.14	
[1- <sup>2</sup> H]-2-Methylpropan-1-ol, D1.2	
$C_4H_9IO$	
4-Iodobutan-2-ol, A1.13	
$C_4H_9N$	
2,3-Dimethylethyleneimine, A13.1	
2-Methylazetidine, A'17.8	
$C_4H_9NO$	
l-Aminobut-3-en-2-ol, A8.9	
$C_4H_9NOS$	
Methylcysteine sulphoxide, Z7.4	
$C_4H_9NO_2$	
2-Aminobutyric acid, A8.13	
3-Aminobutyric acid, A19.9	
3-Amino-2-methylpropionic acid, A31.7	
$C_4H_9NO_3$	
Threonine, A8.16	
2-Amino-3-hydroxy-2-methylpropionic acid, A40.10	
4-Amino-2-hydroxybutyric acid, A9.4	
4-Amino-3-hydroxybutyric acid, A2.16	
Allothreonine, A24.2	
Homoserine, A'5.7	
$C_4H_9NO_4$	
4-Amino-2,3-dihydroxybutyric acid, A24.11	
$C_4H_9OT$	
[3- <sup>3</sup> H]-Butan-2-ol, D1.18	
$C_4H_{10}ClOPS$	
0-Ethyl ethylphosphonochloridothionate, Z'3.7	
0-Propyl methylphosphonochloridothionate, Z'3.17	
0-Isopropyl methylphosphonochloridothionate, Z'3.17	
$C_4H_{10}ClO_2P$	
0-Ethyl ethylphosphonochloridate, Z'3.2	
0-Isopropyl methylphosphonochloridate, Z'3.18	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

$C_4H_{10}DN$	
[1- <sup>2</sup> H]-Butylamine, <b>D1.10</b>	
$C_4H_{10}FO_2P$	
Sarin, <b>Z'3.5</b>	
$C_4H_{10}N_2O_2$	
3-Hydroxy-2-methylpropionic acid hydrazide, <b>A28.12</b>	
2,4-Diaminobutyric acid, <b>A9.3</b>	
2,3-Diaminobutyric acid, <b>A'6.12</b>	
$C_4H_{10}O$	
Butan-2-ol, <b>A1.16</b>	
$C_4H_{10}OS$	
Methyl propyl sulphoxide, <b>Z7.12</b>	
Methyl isopropyl sulphoxide, <b>Z'8.10</b>	
$C_4H_{10}O_2$	
Butane-1,2-diol, <b>A1.21</b>	
Butane-1,3-diol, <b>A1.12</b>	
Butane-2,3-diol, <b>A3.7</b>	
$C_4H_{10}O_2S$	
0-Methyl isopropylsulphinate, <b>Z'8.13</b>	
$C_4H_{10}O_2S_2$	
Dithiothreitol, <b>A2.2</b>	
$C_4H_{10}O_4$	
Threitol, <b>C1.11</b>	
Erythritol, <b>C1.12</b>	
$C_4H_{10}S_2$	
Butane-2,3-dithiol, <b>A13.14</b>	
$C_4H_{11}N$	
2-Aminobutane, <b>A'14.2</b>	
$C_4H_{11}NO$	
1-Aminobutan-2-ol, <b>A8.10</b>	
1-Aminobutan-3-ol, <b>A6.1</b>	
2-Aminobutan-1-ol, <b>A8.19</b>	
3-Aminobutan-2-ol, <b>A13.4</b>	
$C_4H_{11}NOS$	
3-Methylsulphinylpropylamine, <b>Z8.13</b>	
$C_4H_{11}NO_2$	
2-Aminobutane-1,4-diol, <b>A4.2</b>	
$C_4H_{11}N_2T$	
[2- <sup>3</sup> H]-1,4-Diaminobutane, <b>D2.9</b>	
$C_4H_{11}OPS$	
Isopropyl methylphosphinothionate, <b>Z'3.23</b>	
$C_4H_{11}O_2P$	
Isopropyl methylphosphinate, <b>Z'3.14</b>	
$C_4H_{11}O_2PS$	
0-Ethyl ethylphosphonothioic acid, <b>Z'3.11</b>	
Isopropyl methylphosphonothiolic acid, <b>Z'3.16</b>	
0-Propyl methylphosphonothioic acid, <b>Z'3.13</b>	
0-Isopropyl methylphosphonothioic acid, <b>Z'3.13</b>	
$C_4H_{11}O_5P$	
1-Hydroxy-2-methoxypropylphosphonic acid, <b>Y20.3</b>	
$C_4H_{12}N_2$	
2,3-Diaminobutane, <b>A19.2</b>	
$C_4H_{12}N_2O$	
1,4-Diaminobutan-2-ol, <b>A'12.5</b>	
	<b>C<sub>5</sub></b>
$C_5H_4N_4O_4$	
Spirobihydantoin, <b>X'3.10</b>	
$C_5H_4O_4$	
Pentadienoic acid <b>X3.1</b>	
$C_5H_5BrO_3$	
2-Bromo-3,4-dihydroxypent-2-enoic acid 1,4-lactone <b>A'12.15</b>	
$C_5H_5DO_5$	
[3- <sup>2</sup> H]-2-Oxoglutaric acid <b>D2.14</b>	
$C_5H_6O_2$	
4-Hydroxycyclopent-2-en-1-one, <b>A24.13</b>	
$C_5H_6O_3$	
2-Hydroxy-2-methylbut-3-ynoic acid, <b>A33.3</b>	
$\gamma$ -Methyltetronic acid, <b>A'12.10</b>	
Protoanemonin, <b>A'12.7</b>	
$C_5H_6O_4$	
Paraconic acid, <b>T15.14</b>	
2-Hydroxyglutaric acid lactone, <b>A11.13</b>	
Cyclopropane-1,2-dicarboxylic acid, <b>A37.1</b>	
$C_5H_7BrO_4$	
2-Bromo-3-methylsuccinic acid, <b>A28.10</b>	
$C_5H_7ClN_2O_3$	
(3-Chloro-5-isoxazolyl)glycine, <b>Y'12.7</b>	
$C_5H_7ClN_2O_4$	
(3-Chloro-4-hydroxy-5-isoxazolyl)glycine, <b>Y'12.7</b>	
$C_5H_7ClO_4$	
2-Chloroglutamic acid, <b>A11.18</b>	
$C_5H_7DO$	
[3- <sup>2</sup> H]-Cyclopentanone, <b>D2.21</b>	
$C_5H_7NO_2$	
3,4-Dehydroproline, <b>A17.2</b>	
$C_5H_7NO_3$	
Pyroglutamic acid, <b>A9.11</b>	
4-Oxoproline, <b>A17.8</b>	
$C_5H_7N_3O_2$	
5-Azido-4-hydroxypentanoic acid lactone, <b>A11.3</b>	
$C_5H_7N_3O_4$	
Azaserine, <b>A4.4</b>	
$C_5H_7NOS$	
Goitrin, <b>A8.11</b>	
$C_5H_8$	
3-Methylcyclobutene, <b>A28.8</b>	
Penta-1,3-diene, <b>X2.1</b>	
$C_5H_8Cl_2O_2$	
Caldariomycin, <b>Y16.9</b>	
$C_5H_8D_3NO_2$	
[4,4,4- <sup>2</sup> H <sub>3</sub> ]-Valine, <b>D'2.16</b>	
$C_5H_8INO$	
5-Iodomethyl-2-pyrrolidone, <b>A9.13</b>	
$C_5H_8N_2$	
1-Cyano-2-methylazetidine, <b>A'17.8</b>	
$C_5H_8O$	
4-Hydroxypent-2-yne, <b>A'6.1</b>	

## Formulae Index

---

- 3-Hydroxypent-1-yne, A'11.14  
 3-Methyl-2,3-dihydrofuran, A'16.10  
 $C_5H_8O_2$   
 4-Hydroxypentanoic acid lactone, A12.18  
 2-Methylcyclopropanecarboxylic acids, A44.12,  
     A44.13  
 4-Hydroxy-2-methylbutyric acid lacto-  
     ne, A'16.11  
 $C_5H_8O_2S$   
 Thiophane-2-carboxylic acid, A18.2  
 3,3-Dimethylthiiran-2-carboxylic acid, A'22.7  
 3-Thia-5-hydroxyhexanoic acid lactone, Z'8.7  
 $C_5H_8O_2S_2$   
 1,2-Dithiane-4-carboxylic acid, A'15.8  
 $C_5H_8O_3$   
 Tetrahydrofuran-3-carboxylic acid, A30.8  
 4-Hydroxy-2-hydroxymethylbutyric acid 1,4-lac-  
     tone, A30.7  
 2-Hydroxyglutaric acid lactone, methyl ester,  
     A11.13  
 4,5-Dihydroxypentanoic acid 1,4-lactone,  
     A11.12  
 $C_5H_8O_3S$   
 2-Mercaptopropionic acid, *S*-acetyl, A12.10  
 $C_5H_8O_4$   
 2-Methylsuccinic acid, A27.21  
 $C_5H_8O_4S$   
 2-Thiomethylsuccinic acid, A2.8  
 $C_5H_8O_5$   
 2-Hydroxy-2-methylsuccinic acid, A33.12  
 2-Hydroxy-3-methylsuccinic acid, Y5.4  
 Methoxysuccinic acid, A2.12  
 Malic acid, methyl ester, A1.25  
 2-Hydroxyglutaric acid, A11.13  
 $C_5H_8O_6$   
 2,3-Dihydroxyglutaric acid, Y4.11  
 2,3-Dihydroxy-2-methylsuccinic acid, A24.10  
 2,4-Dihydroxyglutaric acid, A'7.6  
 $C_5H_9BrO_2$   
 2-Bromo-3-methylbutyric acid, A4.20  
 $C_5H_9ClO_2$   
 2-Chloro-3-methylbutyric acid, A4.20  
 $C_5H_9DO$   
 [4-<sup>2</sup>H]-Pentan-2-one, D1.4  
 $C_5H_9D_3O_2$   
 [4,4,4-<sup>2</sup>H<sub>3</sub>]-3-Methylbutane -1,2-diol, D'2.14  
 $C_5H_9F_3O$   
 1,1,1-Trifluoro-2-ethoxypropane, A12.2  
 $C_5H_9N$   
 2-Methylbutyronitrile, A29.11  
 3-Aminopent-1-yne, A'5.9  
 1-Azabicyclo[3.1.0]hexane, A'9.2.  
 $C_5H_9NO$   
 4-Methyl-2-pyrrolidone, K35.8
- 1-Dimethylaminopropan-2-ol, A'18.7  
 3-Methyl-2-pyrrolidone, A'18.15  
 5-Oxoprolinol, K'5.3  
 $C_5H_9NOS$   
 Sisastricin, A8.18  
 Thiophane-2-carboxylic acid, amide, A18.2  
 $C_5H_9NO_2$   
 Proline, A11.14  
 3-Hydroxy-2-piperidone, A11.9  
 5-Hydroxy-2-piperidone, A11.6  
 2-Amino-2-methylbut-3-enoic acid, A40.15  
 4-Aminopent-2-enoic acid, A'14.4  
 $C_5H_9NO_2S$   
 Iberin, Z8.8  
 $C_5H_9NO_3$   
 $\beta$ -Carboxybutyramide, A34.11  
 4-Hydroxypyrrolidine-2-carboxylic acids,  
     A17.9, A17.11  
 2-Amino-4-methoxybut-3-enoic acid, A'5.6  
 $C_5H_9NO_3S$   
 2-Oxo-4-pyrrolidyl methyl sulphone, A17.12  
 $C_5H_9NO_4$   
 2-Amino-2-methylsuccinic acid, A40.4  
 2-Amino-3-methylsuccinic acid, A28.11  
 Glutamic acid, A9.7  
 $C_5H_9NO_5$   
 $\beta$ -Hydroxyglutamic acids, A2.13, A2.14  
 $\gamma$ -Hydroxyglutamic acids, A'7.7, A'7.8  
 $C_5H_9N_3O_2$   
 Pyroglutamic acid hydrazide, A9.11  
 $C_5H_{10}$   
 1,2-Dimethylcyclopropane, A44.1  
 $C_5H_{10}BrD$   
 [1-<sup>2</sup>H]-1-Bromo-2,2-dimethylpropane, D'1.19  
 $C_5H_{10}Br_2$   
 1,4-Dibromo-2-methylbutane, A27.15  
 2,4-Dibromopentane, A6.17  
 1,2-Dibromo-2-methylbutane, A'16.9  
 $C_5H_{10}Cl_2$   
 1,4-Dichloro-2-methylbutane, A27.15  
 $C_5H_{10}DF$   
 [1-<sup>2</sup>H]-1-Fluoro-2,2-dimethylpropane, D'1.19  
 $C_5H_{10}DI$   
 [1-<sup>2</sup>H]-1-Iodo-2,2-dimethylpropane, D'1.19  
 $C_5H_{10}DN$   
 [2-<sup>2</sup>H]-3,3-Dimethylbutyronitrile, D'1.16  
 $C_5H_{10}DN_3$   
 [1-<sup>2</sup>H]-1-Azido-2,2-dimethylpropane, D'1.20  
 $C_5H_{10}N_2$   
 3,4-Dimethylpyrazoline, A6.21  
 2,5-Diazabicyclo[2.2.1]heptane, A17.14  
 $C_5H_{10}N_2O_2$   
 3-Aminoproline, Y22.7  
 Piperazic acid, A11.11

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- $C_5H_{10}N_2O_2$  continued  
 Curcurbitine, **A30.12**
- $C_5H_{10}N_2O_3$   
 Glutamine, **A9.1**  
 Isoglutamine, **A9.8**  
 Methoxysuccinic acid, diamide, **A2.12**  
 5-Hydroxypiperazic acid, **A11.11**
- $C_5H_{10}O$   
 3-Methoxybut-1-ene, **A1.7**  
 2-Methylbutanal, **A27.5**  
 2,3-Epoxy-2-methylbutane, **A33.6**  
 Pent-3-en-2-ol, **A12.11**  
 Pent-4-en-2-ol, **A6.8**  
 2-Methyltetrahydrofuran, **A6.16**  
 3-Methyltetrahydrofuran, **A30.2**
- $C_5H_{10}O_2$   
 3-Hydroxymethyltetrahydrofuran, **A30.5**  
 2-Methylbutyric acid, **A29.11**  
 4-Hydroxy-3-methylbutan-2-one, **A28.16**  
 1,2-Bis-(hydroxymethyl)-cyclopropane, **A44.2**  
 $[4\text{-}^{13}C]\text{-}3\text{-Methylbutyric acid}$ , **D'3.9**
- $C_5H_{10}O_2S$   
 2-Mercaptopropionic acid, *S*-methyl, methyl ester, **A12.10**
- $C_5H_{10}O_3$   
 2-Hydroxypentanoic acid, **A6.5**  
 3-Hydroxypentanoic acid, **A6.19**  
 4-Hydroxypentanoic acid, **A6.2**  
 2-Hydroxy-2-methylbutyric acid, **A33.8**  
 2-Hydroxy-3-methylbutyric acid, **A'4.6**  
 2-Hydroxybutyric acid, methyl ester, **A1.22**  
 Lactic acid, ethyl ester, **A1.9**
- $C_5H_{10}O_4$   
 2,3-Dihydroxy-3-methylbutyric acid, **A3.11**  
 2,3-Dihydroxy-2-methylbutyric acid, **A33.5**
- $C_5H_{10}O_5$   
 Lyxose, **A11.17**  
 Arabinose, **C1.8**  
 Xylose, **C1.6**  
 Ribose, **C1.9**  
 Threopentulose, **C2.5**  
 Erythropentulose, **C2.6**
- $C_5H_{11}Br$   
 1-Bromo-2-methylbutane, **A27.11**  
 2-Bromopentane, **A6.20**
- $C_5H_{11}BrO$   
 1-Bromo-3-methoxybutane, **A12.22**
- $C_5H_{11}BrO_2$   
 2-Bromo-3,3-dimethylbutyric acid, **A'4.12**
- $C_5H_{11}Cl$   
 1-Chloro-2-methylbutane, **A27.11**
- $C_5H_{11}ClO_2$   
 2-Chloro-3,3-dimethylbutyric acid, **A'4.12**
- $C_5H_{11}D$   
 $[2\text{-}^2H]\text{-Pentane}$ , **D1.5**  
 $[1\text{-}^2H]\text{-}2\text{-Methylbutane}$ , **D'2.5**
- $C_5H_{11}DO$   
 $[2\text{-}^2H]\text{-Pantan-1-ol}$ , **D1.1**  
 $[1\text{-}^2H]\text{-}2,2\text{-Dimethylpropan-1-ol}$ , **D'1.15**
- $C_5H_{11}DO_3S$   
 $[1\text{-}^2H]\text{-}2,2\text{-Dimethylpropane-1-sulphonic acid}$ , **D'1.13**
- $C_5H_{11}DS$   
 $[1\text{-}^2H]\text{-}2,2\text{-Dimethylbutane-1-thiol}$ , **D'1.14**
- $C_5H_{11}F$   
 1-Fluoro-2-methylbutane, **A27.11**
- $C_5H_{11}N$   
 2-Methylpyrrolidine, **A17.6**  
 2-Isopropylaziridine, **A'4.7**  
 1,2-Dimethylazetidine, **A'17.8**
- $C_5H_{11}NO$   
 3-Hydroxypiperidine, **A11.5**  
 2-Hydroxymethylpyrrolidine, **A17.7**
- $C_5H_{11}NO_2$   
 Valine, **A4.19**  
 Norvaline, **A10.15**  
 2-Amino-2-methylbutyric acid, **A40.9**  
 4-Amino-2-methylbutyric acid, **A34.5**  
 4-Amino-3-methylbutyric acid, **A27.16**  
 4-Aminopentanoic acid, **A'14.14**  
 $[4\text{-}^{13}C]\text{-Valine}$ , **D'3.10**
- $C_5H_{11}NO_2S$   
 Methionine, **A8.17**  
 Penicillamine, **A4.21**
- $C_5H_{11}NO_3$   
 2-Amino-5-hydroxypentanoic acid, **A9.6**  
 2-Amino-4-hydroxypentanoic acids, **A'6.5**, **A'6.6**
- $C_5H_{11}NO_3S$   
 Methionine sulphoxides, **Z8.14**, **Z8.18**
- $C_5H_{11}NO_4$   
 4-Amino-2,3-dihydroxy-3-methylbutyric acid, **A'12.4**
- $C_5H_{12}ClOPS$   
 $O\text{-Butyl methylphosphonochloridothionate}$ , **Z'3.17**
- $C_5H_{12}DN$   
 $[1\text{-}^2H]\text{-}1\text{-Amino-2,2-dimethylpropane}$ , **D'1.21**
- $C_5H_{12}N_2$   
 1,2-Diaminocyclopentane, **A19.5**  
 1,2,3,3-Tetramethylaziridine, **Z'2.4**
- $C_5H_{12}N_2O_2$   
 Ornithine, **A11.15**  
 3,5-Diaminopentanoic acid, **A9.10**
- $C_5H_{12}N_2O_2S$   
 Methionine sulphoximines, **Z8.15**, **Z8.17**
- $C_5H_{12}O$   
 2-Methylbutan-1-ol, **A27.10**  
 3-Methylbutan-2-ol, **A'3.10**  
 2-Methoxybutane, **A1.16**  
 Pentan-2-ol, **A6.7**
- $C_5H_{12}OS$   
 Butyl ethyl sulphoxides, **Z'8.10**

## Formulae Index

---

<b>1-Methylthiobutan-2-ol, A'2.5</b>	<b>C<sub>6</sub>H<sub>6</sub>O<sub>5</sub></b>
<b>C<sub>5</sub>H<sub>12</sub>O<sub>2</sub></b>	Dimethoxysuccinic anhydride, A3.8
Pentane-1,2-diol, A6.6	
Pentane-1,4-diol, A6.3	<b>C<sub>6</sub>H<sub>6</sub>O<sub>6</sub></b>
Pentane-2,4-diol, A6.9	Isocitric lactone, A30.6
2-Methylbutane-1,2-diol, A33.7	Alloisocitric lactone, A30.3
2-Methylbutane-1,4-diol, A27.20	<b>C<sub>6</sub>H<sub>7</sub>ClO<sub>2</sub></b>
2-Methylbutane-2,3-diol, A12.9	2-Chlorocyclohexa-1,3-dien-5,6-diol, A16.3
1-Methoxybutan-2-ol, A'2.3	<b>C<sub>6</sub>H<sub>8</sub>O</b>
3-Methylbutane-1,2-diol A'3.14	2,3-Divinyloxiran, A'2.16
<b>C<sub>5</sub>H<sub>12</sub>O<sub>3</sub></b>	2-Vinyl-2,3-dihydrofuran, A'2.17
Pentane-1,2,3-triol, A11.7	Bicyclo[3.1.0]hexan-2-one, A'25.1
2-Methylbutane-1,2,3-triol, A33.1	<b>C<sub>6</sub>H<sub>8</sub>O<sub>2</sub></b>
3-Methylbutane-1,2,3-triol, A3.14	Sorbinol, Y'5.3
2-Methylbutane-1,2,4-triol, A33.13	Cyclohexa-1,3-dien-5,6-diol, A16.8
2-Methoxybutane-1,4-diol, A'7.13	2-Vinylcyclopropanecarboxylic acid, A'27.21
<b>C<sub>5</sub>H<sub>12</sub>O<sub>4</sub></b>	<b>C<sub>6</sub>H<sub>8</sub>O<sub>3</sub></b>
Pentane-1,2,3,5-tetraol, Y4.12	3-Oxocyclopentanecarboxylic acid, A36.1
<b>C<sub>5</sub>H<sub>12</sub>O<sub>5</sub></b>	2,3-Dimethylsuccinic acid anhydride, A31.8
Xylitol, C1.6	2,3-Dihydro-3-Furoic acid methyl ester, A'16.8
Ribitol, C1.9	Osmundalactone, Y'5.7
Lyxitol, C1.7, C1.8	<b>C<sub>6</sub>H<sub>8</sub>O<sub>4</sub></b>
<b>C<sub>5</sub>H<sub>13</sub>N</b>	2-Hydroxy-2-methylglutaric acid lactone, A11.8
2-Amino-3-methylbutane, A4.13	3,4-Dihydroxycyclohexane-1,2-dione, A16.22
<b>C<sub>5</sub>H<sub>13</sub>NO</b>	Cyclobutane-1,2-dicarboxylic acid, A37.5
Valinol, A4.18	Lactide, A'12.13
2-Amino-2-methylbutan-1-ol, A27.18	Pentenomycin I, A'25.17
3-Amino-2-methylbutan-2-ol, A4.14	<b>C<sub>6</sub>H<sub>8</sub>O<sub>4</sub>S</b>
4-Amino-2-methylbutan-1-ol, A34.10	Thiophane-2,5-dicarboxylic acid, A18.3
<b>C<sub>5</sub>H<sub>13</sub>O<sub>2</sub>PS</b>	<b>C<sub>6</sub>H<sub>8</sub>O<sub>4</sub>S<sub>2</sub></b>
O-Ethyl S-methyl ethylphosphonothiolate, Z'3.3	Dithiolane-3,5-dicarboxylic acid, A18.6
O-Ethyl O-methyl ethylphosphonothiolate, Z'3.8	<b>C<sub>6</sub>H<sub>8</sub>O<sub>4</sub>Se</b>
O-Butyl methylphosphonothioic acid, Z'3.13	Selenophane-2,5-dicarboxylic acid, A18.4
O-Methyl O-isopropyl methylphosphonothionoate, Z'3.21	<b>C<sub>6</sub>H<sub>8</sub>O<sub>6</sub></b>
S-Methyl isopropyl methylphosphonothiolic acid, Z'3.16	Acetoxy succinic acid, A1.25
<b>C<sub>5</sub>H<sub>13</sub>O<sub>3</sub>P</b>	<b>C<sub>6</sub>H<sub>8</sub>O<sub>7</sub></b>
O-Ethyl S-methyl ethylphosphonothiolate, Z'3.4	Isocitric acid, A30.1
<b>C<sub>5</sub>H<sub>14</sub>NO<sub>6</sub>P</b>	<b>C<sub>6</sub>H<sub>8</sub>O<sub>8</sub></b>
( $\alpha$ -Glycerylphosphoryl)ethanolamine, A'11.3	Hydroxycitric acid, A30.9
<b>C<sub>5</sub>H<sub>14</sub>N<sub>2</sub></b>	Allo-hydroxycitric acid, A30.10
1,2-Diamino-3-methylbutane, A'4.13	<b>C<sub>6</sub>H<sub>9</sub>BrO</b>
<b>C<sub>5</sub>H<sub>14</sub>N<sub>2</sub>O</b>	2-Bromocyclohexanone, A18.17
1,5-Diaminopentan-2-ol, A'5.4	<b>C<sub>6</sub>H<sub>9</sub>NO<sub>2</sub></b>
	4-Methyleneproline, A17.4
<b>C<sub>6</sub></b>	2-(Methylenecyclopropyl)-glycine, A27.1
<b>C<sub>6</sub>H<sub>6</sub>O<sub>3</sub>S</b>	Baikain, A10.9
2-Hydroxy-2-(2-thienyl)acetic acid, A21.16	2-Cyano-2-methylbutyric acid, A'36.9
2-Hydroxy-2-(3-thienyl)acetic acid, A21.13	2-Aminohexa-4,5-dienoic acid, A10.7
<b>C<sub>6</sub>H<sub>6</sub>O<sub>4</sub></b>	<b>C<sub>6</sub>H<sub>9</sub>NO<sub>2</sub>S</b>
3-Methylenecyclopropane-1,2-dicarboxylic acid, A37.18	5,5-Dimethyl- $\Delta^2$ -thiazoline-4-carboxylic acid, Y29.3
	<b>C<sub>6</sub>H<sub>9</sub>NO<sub>3</sub></b>
	4-Oxopipeolic acid, A10.14
	<b>C<sub>6</sub>H<sub>9</sub>N<sub>2</sub>O<sub>2</sub></b>
	Histidine, A20.16

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- C<sub>6</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>S  
2-Thiolhistidine, A20.20
- C<sub>6</sub>H<sub>9</sub>N<sub>3</sub>O<sub>3</sub>  
β-Hydroxyhistidine, A'10.12
- C<sub>6</sub>H<sub>9</sub>O<sub>2</sub>  
3,4-Methyleneprolines, A30.14, A30.15
- C<sub>6</sub>H<sub>10</sub>  
2,3-Dimethylmethylenecyclopropane, A37.19
- C<sub>6</sub>H<sub>10</sub>Br<sub>2</sub>  
1,2-Dibromocyclohexane, A18.15
- C<sub>6</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>  
2,6-Diaminohex-4-yneic acid, A10.1
- C<sub>6</sub>H<sub>19</sub>N<sub>4</sub>O<sub>2</sub>  
Viomycinide, Y22.3
- C<sub>6</sub>H<sub>10</sub>O  
3-Methylcyclopentanone, A36.6  
Hex-1-yn-3-ol, A6.15  
Hexa-3,4-dien-1-ol, X1.7  
3-Methylpent-1-yn-3-ol, A33.4  
4-Methylpent-1-yn-3-ol, A8.3  
2-Ethyl-2,3-dihydrofuran, A'2.18  
3-Hydroxyhexa-1,5-diene, A'2.13  
3-Hydroxycyclohexene, A'24.8  
2-Methylcyclopentanone, A'25.10  
3-Hydroxy-4-methylcyclopentene, A'25.12
- C<sub>6</sub>H<sub>10</sub>OS  
6-Methyltetrahydrothiopyran-3-one, A'6.7
- C<sub>6</sub>H<sub>10</sub>O<sub>2</sub>  
2-Methylpent-4-enoic acid, A34.7  
3-Acetoxybut-1-ene, A1.6  
Cyclohex-1-en-3,4-diol, A16.18  
2-Hydroxycyclohexanone, A16.9  
2,6-Dioxabicyclo[3.3.0]-octane, X11.5  
2,3-Dimethylcyclopropanecarboxylic acid, A44.4  
5-Hydroxyhexanoic acid lactone, Y14.10  
6-Methyltetrahydropyran-3-one, A'3.1  
4-Hydroxy-2-ethylbutyric acid lactone, A'16.12
- C<sub>6</sub>H<sub>10</sub>O<sub>3</sub>  
2-Methyl-4-oxopentanoic acid, A28.3  
3-Methyl-4-oxopentanoic acid, A34.14  
3,4-Dihydroxy-4-methylpentanoic acid γ-lactone, Y1.6  
3,5-Dihydroxy-3-methylpentanoic acid lactone, A33.11  
Glyceraldehyde, isopropylidene deriv. A1.1  
4,4-Dimethyl-3-hydroxy-γ-butyrolactone, A8.5  
2,3-Epoxy-2-methylbutyric acid, methyl ester, A33.10  
Pantolactone, A'3.12  
5-Hydroxyhex-2-enoic acid, Y'5.3  
4,5-Dihydroxyhexanoic acid, 1,5-lactone, Y'5.5
- C<sub>6</sub>H<sub>10</sub>O<sub>4</sub>  
Isomannide, X11.4  
2,3-Dimethylsuccinic acid, A31.8  
2,3,4-Trihydroxycyclohexanones, A16.20, A16.21
- 2-Ethylsuccinic acid, A28.9  
3-Carbomethoxybutyric acid, A34.8  
2-Methylglutaric acid, A32.12  
Methyl acetolactate, A33.2
- C<sub>6</sub>H<sub>10</sub>O<sub>4</sub>S  
Thiodilactic acid, A1.10  
2-Thioethylsuccinic acid, A2.8
- C<sub>6</sub>H<sub>10</sub>O<sub>4</sub>S<sub>2</sub>  
2,5-Dimercaptoadipic acid, A18.7
- C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>  
2-Deoxygluconolactone, A26.8  
Dilactic acid, A1.5  
2,3,4,5-Tetrahydroxycyclohexanone, A16.10  
Methyl hydrogen 3-hydroxyglutarate, A6.18  
3-Hydroxyadipic acid, A25.20
- C<sub>6</sub>H<sub>10</sub>O<sub>6</sub>  
3,4-Dihydroxyadipic acid, A3.3  
Chitaric acid, Y20.7  
Dimethyl tartrate, A2.6  
2,3,4,5,6-Pentahydroxycyclohexanone, A16.6  
Dimethoxysuccinic acid, A3.8  
2,3-Dihydroxy-2,3-dimethylsuccinic acid, A24.12
- C<sub>6</sub>H<sub>10</sub>O<sub>7</sub>  
2,3,5-Trihydroxyadipic acid, A16.12
- C<sub>6</sub>H<sub>10</sub>S<sub>2</sub>  
Dithiabicyclo[3.3.0]-octane, X11.6
- C<sub>6</sub>H<sub>11</sub>BrO  
2-Bromocyclohexanol, A18.16
- C<sub>6</sub>H<sub>11</sub>BrO<sub>2</sub>  
2-Bromo-3-methylpentanoic acid, A27.7
- C<sub>6</sub>H<sub>11</sub>ClO<sub>2</sub>  
2-Chloro-3-methylpentanoic acid, A27.7
- C<sub>6</sub>H<sub>11</sub>DO  
[5-<sup>2</sup>H]-Hexan-2-one, D'2.7
- C<sub>6</sub>H<sub>11</sub>DO<sub>2</sub>  
[1-<sup>2</sup>H]-Butyl acetate, D1.7  
[3-<sup>2</sup>H]-Hexanoic acid, D1.6
- C<sub>6</sub>H<sub>11</sub>F<sub>3</sub>O  
1,1,1-Trifluoro-3,3-dimethylbutan-2-ol, A12.5
- C<sub>6</sub>H<sub>11</sub>NO  
5-Methyl-2-piperidone, A26.16
- C<sub>6</sub>H<sub>11</sub>NOS<sub>2</sub>  
Sulphorophan, Z8.8
- C<sub>6</sub>H<sub>11</sub>NO<sub>2</sub>  
3-Methylprolines, A27.3, A27.4  
Pipecolic acid, A10.7  
Nipecotinic acid, A30.13  
2-Aminohex-4-enoic acid, A10.12  
Hygrinic acid, A11.14  
Homoproline, A'9.1
- C<sub>6</sub>H<sub>11</sub>NO<sub>2</sub>S  
4-Thiomethylpyrrolidine-2-carboxylic acid, A17.10  
2,2-Dimethylthiazolidine-4-carboxylic acid, Y29.3

## Formulae Index

---

$C_6H_{11}NO_3$	2,3-Dimethylbutyric acid, A15.18
4-Hydroxypipeolic acids, A10.10, A10.11	3,6-Dihydroxyhex-1-ene, A'2.14
4-Hydroxymethylprolines, A17.3, A17.5	1,2-Bis(hydroxymethyl)cyclobutane, A'31.5
4-Hydroxyproline, N-methyl, A17.11	
(Isopropylideneaminoxy)propionic acid, A'11.17	
2-Amino-3-methyl-4-hydroxypentanoic acid, A'18.10	$C_6H_{12}O_3$
2-Amino-3-hydroxy-4-methylglutaric acid, A'18.11	2-Hydroxy-2-methylbutyric acid, methyl ester, A33.8
$C_6H_{11}NO_3S$	2-Hydroxyhexanoic acid, A1.24
Cycloalliin, Z7.16	3-Hydroxyhexanoic acid, A6.13
$C_6H_{11}NO_4$	3-Hydroxy-2-methylpentanoic acid, A34.3
2-Aminoadipic acid, A25.13	3-Hydroxy-4-methylpentanoic acid, A8.2
4,5-Dihydroxypiperidine-2-carboxylic acids, A'17.7, A'17.10	<i>O</i> -Methyl lactic acid, ethyl ester, A1.8
$C_6H_{11}NS$	1,2-isopropylideneglycerol, A14.7
2-Methylbutyl thiocyanate, A'16.2	2-Hydroxyethyl-3-hydroxytetrahydropyran, Y15.3
$C_6H_{12}$	4-Methoxypentanoic acid, A6.2
2-Ethyl-1-methylcyclopropanes, A44.8, A44.11	2,2-Dimethyl-3-hydroxybutyric acid, A12.14
3-Methylpent-1-enes, A27.19	Cyclohexane-1,2,3-triol, A16.14
$C_6H_{12}Br_2$	2-Hydroxy-4-methylpentanoic acid, A'4.2
2,4-Dibromohexanes, A'2.6, A'2.11	3-Methoxy-2-methylbutyric acid, A'16.5
$C_6H_{12}N_2$	3,3-Dimethyl-2-hydroxybutyric acid, A'3.15
2,6-Diazabicyclo-[3.3.0]-octane, X11.9	3-Hydroxy-3-methylpentanoic acid, A'28.9
3-Ethyl-5-methylpyrazolines, A'2.4, A'2.12	$C_6H_{12}O_4$
$C_6H_{12}N_2O$	Cyclohexane-1,2,3,4-tetraols, A16.15, A16.16, A16.19
4-Isopropyl-2-imidazolidone, A'4.17	Cyclohexane-1,2,3,5-tetraols, A26.1, A26.6
$C_6H_{12}N_2O_4S$	2,3-Dihydroxy-2-methylpentanoic acid, A34.16
Lanthionine, A4.12	2,3-Dihydroxy-3-methylbutyric acid methyl ester, A3.11
$C_6H_{12}N_2O_4S_2$	2,5-Dihydroxy-3-methylpentanoic acid, T31.5
Cystine, A4.16	Pantoic acid, A'3.12
$C_6H_{12}N_4O_2$	Cyclohexane-1,2,4,5-tetraol, A'7.1
3-Guanidinoproline, Y22.4	2,3-Dihydroxy-3-methylpentanoic acid, A'28.13
Enduracidine, A'6.11	$C_6H_{12}O_4S$
$C_6H_{12}N_4O_3$	Methyl 1-thio- $\alpha$ -D-ribopyranoside, C'1.9
Roseonine, Y'14.6	$C_6H_{12}O_5$
$C_6H_{12}O$	Cyclohexane-1,2,3,4,5-pentaols, A16.4, A16.5, A16.7, A16.11
4-Methoxypent-1-ene, A6.8	$C_6H_{12}O_6$
3-Methylpentanal, A29.9	Glucose, A26.9
3-Methylpentan-2-one, A29.12	Ribohexulose, C2.4
2,5-Dimethyltetrahydrofuran, A'3.5	Arabinohexulose, C2.3
2,3-Dimethylbutanal, A29.4	Xylohexulose, C2.2
2-Ethyltetrahydrofuran, A'2.19	Lyxohexulose, C2.1
Hex-5-en-3-ol, A'2.10	Talose, C1.2
Hex-1-en-5-ol, A'3.6	$C_6H_{12}S_2$
tert-Butyloxiran, A'3.17	4,6-Dimethyl-1,3-dithiane, A'6.2
2-Isobutyloxiran, A'4.5	$C_6H_{13}Br$
2-Methylcyclopentanol, A'25.11	2-Bromohexane, A'2.7
$C_6H_{12}OS$	3-Bromohexane, A'2.8
4,6-Dimethyl-1,3-oxathiane, A'6.4	1-Bromo-3-methylpentane, A62.18
$C_6H_{12}O_2$	1-Bromo-2-methylpentane, A62.17
Cyclohexane-1,2-diol, A16.13	$C_6H_{13}D$
2-Methylpentanoic acid, A34.4	[3- <sup>2</sup> H]-2,2-Dimethylbutane, D'1.18
3-Methylpentanoic acid, A29.9	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- C<sub>6</sub>H<sub>13</sub>N  
2-Ethylpyrrolidine, A17.1  
2-Isobutylaziridine, A'4.7
- C<sub>6</sub>H<sub>13</sub>NO  
6-Methyl-3-piperidinol, A'17.5
- C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>  
Norleucine, A10.8  
*tert*-Butylglycine, A'3.11  
2-Amino-2-methylpentanoic acid, A'36.15
- C<sub>6</sub>H<sub>13</sub>NO<sub>3</sub>  
4-Amino-3-hydroxy-2-methylpentanoic acid, A'14.1
- C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub>  
2-Amino-2-deoxyglucopyranose, C4.1  
1-Aminobutan-2-ol, oxalate, A8.10  
2-Aminobutan-1-ol, oxalate, A8.19
- C<sub>6</sub>H<sub>14</sub>ClNO  
1-Isopropylamino-3-chloropropan-2-ol, A'12.11
- C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>  
1,2-Diaminocyclohexane, A19.1
- C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>  
β-Lysine, A11.16  
Lysine, A10.2
- C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub>  
γ-Hydroxylysine, A10.3  
3,6-Diamino-3-hydroxyhexanoic acids, A11.19, A11.20  
5-Hydroxylysine, A'5.5
- C<sub>6</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>  
Arginine, A11.10
- C<sub>6</sub>H<sub>14</sub>N<sub>4</sub>O<sub>3</sub>  
3-Hydroxyadipic acid dihydrazide, A25.20
- C<sub>6</sub>H<sub>14</sub>O  
2-Methylpentan-1-ol, A'28.2  
2-Methylpentan-3-ol, A8.6  
3-Methylpentan-1-ol, A27.14  
4-Methylpentan-2-ol, A58.21  
2-Methoxypentane, A6.7  
2,3-Dimethylbutan-1-ol, A29.3  
Hexan-2-ol, A'3.9  
Hexan-3-ol, A6.12  
Pinacolyl alcohol, A12.4
- C<sub>6</sub>H<sub>14</sub>O<sub>2</sub>  
2-Methylpentane-2,3-diol, A8.7  
4-Methylpentane-1,3-diol, A8.1  
Hexane-1,5-diol, Y14.9  
Hexane-3,4-diol, X11.8  
2,3-Dimethylbutane-1,4-diol, A31.4
- C<sub>6</sub>H<sub>14</sub>O<sub>2</sub>S  
*O*-Isopropyl isopropylsulphinate, Z'8.14
- C<sub>6</sub>H<sub>14</sub>O<sub>3</sub>  
2-Methylpentane-1,2,3-triol, A34.15  
2-Methylpentane-1,2,5-triol, A11.4  
2-Methoxybutane-1,4-diol, A33.13  
3,3-Dimethylbutane-1,2,4-triol, A'3.8  
Hexane-1,4,5-triol, Y'5.4
- C<sub>6</sub>H<sub>14</sub>O<sub>4</sub>  
2,3-Dimethoxybutane-1,4-diol, A3.9  
Hexane-1,2,5,6-tetraol, A11.2
- C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>  
Mannitol, A11.1  
Gulitol, C1.1  
Talitol, C1.2, C1.4  
Iditol, C1.5  
Allitol, C1.10
- C<sub>6</sub>H<sub>15</sub>N  
Pinacolylamine, A'4.15  
2-Amino-4-methylpentane, A'4.4
- C<sub>6</sub>H<sub>15</sub>NO  
Leucinol, A20.4  
*tert*-Leucinol, A'4.16  
1-Dimethylaminobutan-2-ol, A'2.1  
1-Isopropylaminopropan-2-ol, A'12.12
- C<sub>6</sub>H<sub>15</sub>OP  
Ethylmethylpropylphosphine oxide, Z6.5
- C<sub>6</sub>H<sub>15</sub>O<sub>3</sub>P  
ethyl isopropylmethylphosphonate, Z'3.10
- C<sub>6</sub>H<sub>16</sub>N<sub>2</sub>  
1,2-Diamino-4-methylpentane, A20.9
- C<sub>6</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>  
2,3-Dimethoxybutane-1,4-diamine, A3.4
- C,**
- C<sub>7</sub>H<sub>6</sub>DN<sub>3</sub>  
1-Azido-1-phenylmethane, D'1.11
- C<sub>7</sub>H<sub>6</sub>O<sub>2</sub>S  
3*H*-2,1-Benzothiazole-1-oxide, Z'6.13
- C<sub>7</sub>H<sub>6</sub>O<sub>4</sub>  
Terreic acid, Y19.7
- C<sub>7</sub>H<sub>6</sub>O<sub>6</sub>  
3-Carboxymuconolactone, A'12.1
- C<sub>7</sub>H<sub>7</sub>DO  
[1-<sup>2</sup>H]-Phenylmethanol, D1.8
- C<sub>7</sub>H<sub>7</sub>IOS  
Methyl *p*-iodophenyl sulphoxide, Z7.9
- C<sub>7</sub>H<sub>8</sub>  
Spiro[3.3]hepta-1,5-diene, X'3.4
- C<sub>7</sub>H<sub>8</sub>CINOS  
*N*-Methyl-*S*-phenyl-sulphonimidoyl chloride, Z8.11
- C<sub>7</sub>H<sub>8</sub>DN  
[1-<sup>2</sup>H]-Phenylmethylamine, D1.9
- C<sub>7</sub>H<sub>8</sub>O  
Dehydrnorcamphor, A46.2  
Hepta-1,3-diyn-5-ol, A'11.8
- C<sub>7</sub>H<sub>8</sub>OS  
Methyl phenyl sulphoxide, Z8.5
- C<sub>7</sub>H<sub>8</sub>O<sub>2</sub>  
4-Hydroxycyclopenteneacetic acid lactone, A'25.9

## Formulae Index

---

$C_7H_8O_3$	1-Methylcyclohexa-1,3-dien-5,6-diol, <b>A'21.7</b>
2-Methylene-3-oxocyclopentanecarboxylic acid, <b>A36.2</b>	4-Acetoxy-pent-2-yne, <b>A'6.1</b>
$C_7H_8O_4$	$C_7H_{10}O_3$
Epoxydone, <b>Y19.5</b>	3-Oxocyclopentaneacetic acid, <b>A36.10</b>
Terremutin, <b>Y19.6</b>	2-Methyl-3-oxocyclopentanecarboxylic acid, <b>A36.6</b>
2-Acetyl-3,4-dihydroxypent-2-enoic acid lactone, <b>A'12.14</b>	$C_7H_{10}O_4$
3-Carboxy-4-hydroxy-2-methylpent-2-enoic acid lactone, <b>K'8.10</b>	Caronic acid, <b>A35'.7</b>
$C_7H_8O_6$	Terebic acid, <b>A35.1</b>
Homocitric acid lactone, <b>A26.5</b>	4,5-Dihydroxycyclohexane-1-carboxylic acid, <b>A3.2</b>
$C_7H_8O_7$	Cyclopentane-1,2-dicarboxylic acid, <b>A37.2</b>
Daucic acid, <b>A'11.15</b>	2-Hydroxyglutaric acid lactone, ethyl ester, <b>A11.13</b>
$C_7H_9Cl$	Isopilopic acid, <b>A28.18</b>
2-Chlorobicyclo[2.2.1]heptane, <b>A'33.19</b>	$C_7H_{10}O_5$
$C_7H_9ClO_2$	Shikimic acid, <b>A26.7</b>
2-Chloro-2-methylbut-3-ynoic acid ethyl ester, <b>A33.17</b>	2,5-Dioxo-4-methoxyhexanoic acid, <b>T17.6</b>
$C_7H_9N$	2-Hydroxymethyl-4,5,6-trihydroxycyclohex-2-en-one, <b>A'20.20</b>
1-Methylcyclopentene-4-carboxylic acid nitrile, <b>A'25.3</b>	Latifolic acid, <b>K'8.9</b>
$C_7H_9NO$	$C_7H_{10}O_6$
(3-Pyridyl)ethanols, <b>A'14.17</b>	Butane-1,2,4-tricarboxylic acid, <b>A26.10</b>
$C_7H_9NOS$	Dehydroquinic acid, <b>A26.3</b>
<i>N</i> -Methylbenzenesulphinimide, <b>Z8.6</b>	Butane-1,1,2-tricarboxylic acid, <b>A28.14</b>
3-Amino-2-(2-carboxyethyl)2,3-dihydrothiophene lactone, <b>A'9.12</b>	Methyl hydrogen 2-acetoxysuccinate, <b>A1.23</b>
$C_7H_9NO_2S$	$C_7H_{10}O_7$
3-Methoxycarbonyl-4-thia-1-azabicyclo[4.1.0]-hept-2-ene, <b>A'9.5</b>	Homocitric acid, <b>A26.5</b>
$C_7H_9NO_3$	$C_7H_{11}Cl$
6-Amino-5-hydroxycyclohexa-1,3-diene-1-carboxylic acid, <b>Y'14.8</b>	3-Chloro-5-methylcyclohexene, <b>A38.13, A38.20</b>
$C_7H_9N_3O_2$	$C_7H_{11}ClO$
Spinacin, <b>A20.22</b>	2-Chloro-5-methylcyclohexanone, <b>A38.7</b>
$C_7H_9OPS$	$C_7H_{11}NO$
Methylphenylphosphinothioic acid, <b>Z'4.7</b>	4,5-Epoxy-3,3-dimethylpentanoic acid, nitrile, <b>A'3.4</b>
$C_7H_{10}$	Pyrrolizidin-2-one, <b>A'9.6</b>
1,2-Divinylcyclopropane, <b>A'27.16</b>	$C_7H_{11}NO_2$
$C_7H_{10}N_2$	3-Ethylglutaric acid mononitrile, <b>T58.7</b>
1-(4-Pyridyl)ethylamine, <b>A'8.7</b>	2-Ethyl-3-methylsuccinimide, <b>A31.12</b>
$C_7H_{10}O$	2-Hydroxymethylpyrrolidine-1-acetic acid lactone, <b>A17.15</b>
5-Methylcyclohex-2-ene-1-one, <b>A38.9</b>	3-Cyano-3-methylpentanoic acid, <b>A'36.11</b>
<i>Exo</i> -dehydronorborneol, <b>A46.3</b>	2-Ethyl-2-methylsuccinimide, <b>A'36.14</b>
Norcamphor, <b>A36.11</b>	$C_7H_{11}NO_3$
Bicyclo[4.1.0]heptan-2-one, <b>A'24.7</b>	Egoninic acid, <b>A9.12</b>
4-Methylcyclohex-2-en-1-one, <b>A'24.12</b>	$C_7H_{11}NO_4$
Bicyclo[3.2.0]heptan-3-one, <b>A'31.10</b>	$\gamma$ -Ethyleneglutamic acid, <b>A10.13</b>
$C_7H_{10}O_2$	$C_7H_{11}NO_5$
Cyclohex-3-ene-1-carboxylic acid, <b>A26.11</b>	<i>N</i> -Acetylglutamic acid, <b>A9.7</b>
4-Methylcyclohexane-1,2-dione, <b>T58.4</b>	$C_7H_{11}NO_6$
Cyclopent-2-eneacetic acid, <b>A36.9</b>	2-Aminobutane-1,2,4-tricarboxylic acid, <b>A40.1</b>
1-Methylcyclopentene-4-carboxylic acid, <b>A'25.3</b>	$C_7H_{11}NS$
	4-(2-Butyl)thiazole, <b>A'15.11</b>

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_7H_{11}N_3O_2$	
3-Methylhistidine, A20.16	
$C_7H_{12}$	
3-Ethylcyclopentene, A36.12	
4-Methylcyclohexene, A26.13	
3,4-Dimethylpent-1-yne, A'15.10	
1,4-Dimethylcyclopentene, A'25.2	
1,3-Dimethylcyclopentene, A'25.7	
3-Methylcyclohexene, A'24.11	
Hepta-3,4-diene, X'1.4	
$C_7H_{12}Cl_2O_4$	
Methyl-4,6-dichloro-4,6-dideoxyglucopyranoside, C3.3	
$C_7H_{12}N_2S$	
2-Amino-4-(2-butyl)thiazole, A'15.11	
$C_7H_{12}O$	
<i>Endo</i> -norborneol, A46.5	
<i>Exo</i> -norborneol, A46.6	
2-Methylcyclohexanone, A38.12	
3-Methylcyclohexanone, A38.4	
3-Methoxycyclohexene, A18.9	
4-Hydroxymethylcyclohexene, A26.14	
5-Methylcyclohex-2-en-1-ols, A38.14, A38.15	
Hepta-1,2-diene-6-ol, A'3.7	
4,4-Dimethylpent-1-yn-3-ol, A'3.18	
2-Methyl-1-oxaspiro[2.4]heptane, A'12.8	
2-Methylene-3-methylpentanal, A'15.5	
2,2,3-Trimethylcyclobutanone, A'31.15	
$C_7H_{12}O_2$	
4-Hydroxy-4-methylhexanoic acid lactone, T3.9	
5-Hydroxy-3-methylhexanoic acid lactones, Y21.5, Y21.10	
2-Methylcyclopentanecarboxylic acid, A36.5	
2-Methylpent-4-enoic acid, methyl ester, A34.7	
4-Hydroxy-2-propylbutyric acid lactone, A'16.12	
3-Ethyl-3-hydroxypentanoic acid lactone, A'26.8	
4-Hydroxy-3-(2-hydroxyethyl)cyclopentene, A'25.8	
3-Methylhex-4-enoic acid, A'28.5	
5-Hydroxy-3-methylhexanoic acid lactone, A'28.7	
3-Hydroxymethyl-3-methylpentanoic acid lactone, A'36.7	
3-Hydroxymethyl-4-methylpentanoic acid lactone, Y'1.9	
4-Hydroxy-5-methylhexanoic acid lactone, Y'1.10	
4-Hydroxyheptanoic acid lactone, Y'5.9	
$C_7H_{12}O_3$	
3,4-Epoxy-4-methylpentanoic acid, methyl ester, A8.4	
3-Hydroxycyclohexanecarboxylic acid, A38.11	
3-Hydroxycyclopentanone ethylene ketal, D2.20	
3-Methyl-5-oxohexanoic acid, A'28.3	
$C_7H_{12}O_4$	
3-Acetoxy-2-methylbutyric acid, A32.17	
2-Acetoxy-2-methylbutyric acid, A33.8	
2-Ethyl-2-methylsuccinic acid, A55.5	
2-Ethyl-3-methylsuccinic acids, A31.12, A31.20	
Lactic acid, <i>O</i> -acetyl, ethyl ester, A1.9	
2-Propylsuccinic acid, A28.9	
2-Ethylglutaric acid, A32.11	
2,4-Dimethylglutaric acid, A32.13	
2-Isopropylsuccinic acid, A28.5	
2,5-Dimethylglutaric acid, A18.5	
3-Methyladipic acid, A26.15	
2-Methyladipic acid, A38.3	
Methyl hydrogen 3-methylglutarate, A32.5	
$C_7H_{12}O_5$	
2-Thiopropylsuccinic acid, A2.8	
$C_7H_{12}O_6$	
2-Methoxyadipic acid, A18.10	
3-Methoxyadipic acid, A25.20	
Methoxysuccinic acid, dimethyl ester, A2.12	
5-Deoxyquinic acid, A26.4	
3-Hydroxy-3-methylglutaric acid monomethyl ester, A33.14	
3-Acetoxy-2-hydroxy-2-methylpropionic acid methyl ester, A'13.11	
$C_7H_{12}O_6$	
Quinic acid, A26.2	
$C_7H_{12}O_7$	
Hydroxyquinic acid, A26.19	
$C_7H_{13}ClO$	
4-Methylhexanoyl chloride, A'16.3	
$C_7H_{13}ClO_2$	
4-Chloropentanoic acid ethyl ester, A'6.3	
$C_7H_{13}N$	
2-Aminonorbornane, A47.10	
Conidine, A'17.4	
$C_7H_{13}NO$	
2-Methylcyclopentanecarboxylic acid, amide, A36.5	
1,5-Dimethyl-2-piperidone, A26.16	
5-Ethyl-5-methyl-2-pyrrolidone, A40.5	
1,6-Dimethyl-3-piperidone, A'17.6	
3-Quinuclidinol, A'10.4	
$C_7H_{13}NO_2$	
2-Aminocyclohexanecarboxylic acids, A37.11, A35.15	
1-Amino-3-methylcyclopentanecarboxylic acid, A'25.6	
$C_7H_{13}NO_3$	
5-Hydroxymethyl-5-(2-hydroxyethyl)-2-pyrrolidone, A40.2	
4-Acetamido-3-methylbutyric acid, A27.16	
2-Amino-3-hydroxycyclohexanecarboxylic acid, Y'14.7	
$C_7H_{13}NO_4$	
Valienamine, A'31.3	

## Formulae Index

---

$C_7H_{13}NOS_2$		$C_7H_{14}O_3$	
Alyssin, <b>Z8.8</b>		3-Acetoxy-2-methylbutan-2-ol, <b>A12.9</b>	
$C_7H_{14}$		2-Hydroxyheptanoic acid, <b>A'4.8</b>	
4-Methylhex-1-ene, <b>A29.16</b>		2-Hydroxy-2,3,3-trimethylbutyric acid, <b>X1.4</b>	
4-Methylhex-2-ene, <b>A29.10</b>		1-Hydroxymethylcyclohexane-1,2-diol, <b>Y19.11</b>	
1,2-Dimethylcyclopentane, <b>A31.9</b>		3-Hydroxy-3-methylpentanoic acid, methyl ester, <b>A'28.9</b>	
2,3-Dimethylpent-1-ene, <b>A29.7</b>		4-Methylcyclohexane-1,2,3-triol, <b>A'31.2</b>	
3,4-Dimethylpent-1-ene, <b>A'15.9</b>		2-Hydroxy-5-methylhexanoic acid, <b>Y'9.8</b>	
$C_7H_{14}Br_2$		$C_7H_{14}O_3S$	
1,4-Dibromo-2-propylbutane, <b>A29.14</b>		2-Hydroxy-2-methyl-3-thiomethylbutyric acid, methyl ester, <b>A33.9</b>	
$C_7H_{14}ClN$		$C_7H_{14}O_4$	
1-Ethyl-3-chloropiperidine, <b>A'9.7</b>		1-Hydroxymethylcyclohexane-1,2,3-triol, <b>Y19.8</b>	
$C_7H_{14}ClNO_4$		Trachelanthic acid, <b>K24.3</b>	
1-Ethyl-1-azoniabicyclo[3.1.0]hexane perchlorate, <b>A'9.3</b>		Viridifloric acid, <b>K24.5</b>	
$C_7H_{14}N_2$		Oleandrose, <b>Y25.1</b>	
2,6-Diaminospiro[3.3]heptane, <b>X'3.2</b>		2,3-Isopropylidenethreitol, <b>A13.12</b>	
1-Methyl-3,3-pentamethylenediaziridine, <b>Z'2.3</b>		Validatol, <b>A'31.2</b>	
$C_7H_{14}N_2O$		$C_7H_{14}O_6$	
2-Aminocyclohexanecarboxylic acid, amide, <b>A37.11</b>		Pinitol, <b>A16.2</b>	
$C_7H_{14}N_2O_2S$		$C_7H_{15}Br$	
3,4-diamino-2-(2-carboxyethyl)tetrahydrothiophene, <b>A'9.15</b>		1-Bromo-2-methylhexane, <b>A62.7</b>	
$C_7H_{14}N_2O_3$		1-Bromo-3-methylhexane, <b>A62.8</b>	
Theanine, <b>A9.2</b>		1-Bromo-4-methylhexane, <b>A62.9</b>	
$C_7H_{14}N_2O_4S$		1-Bromo-5-methylhexane, <b>A62.10</b>	
$\beta$ -Methylanthionine, <b>A'9.14</b>		1-Bromo-2,3-dimethylpentane, <b>A62.2</b>	
$C_7H_{14}N_2O_5S$		$C_7H_{15}N$	
Djenkolic acid, <b>A4.17</b>		1,3-Dimethylpiperidine, <b>A26.17</b>	
$C_7H_{14}O$		2,6-Dimethylpiperidine, <b>K19.6</b>	
2-Methylcyclohexanols, <b>A38.17, A38.18</b>		2-Isopropylpyrrolidine, <b>A'9.10</b>	
3-Methylcyclohexanol, <b>A38.10</b>		$C_7H_{15}NO$	
Hept-1-en-3-ol, <b>A58.11</b>		2-Methylaminocyclohexanol, <b>A3.15</b>	
4-Methylhexan-3-one, <b>A29.12</b>		3-Methoxycyclohexylamine, <b>A18.8</b>	
2-Ethyl-3-methylbutanal, <b>A29.2</b>		1-Ethyl-3-hydroxypiperidine, <b>A'9.4</b>	
4,4-Dimethylpent-1-en-3-ol, <b>A'3.19</b>		$C_7H_{15}NO_2$	
2-Ethyl-2-methyltetrahydrofuran, <b>A'16.15</b>		2-Aminoheptanoic acid, <b>A'4.10</b>	
4-Methylhexan-2-one, <b>A'26.13</b>		2-Amino-2-methylhexanoic acid, <b>A'36.15</b>	
$C_7H_{14}OS$		$C_7H_{16}$	
Allyl butyl sulphoxide, <b>Z'8.12</b>		3-Methylhexane, <b>A29.13</b>	
$C_7H_{14}O_2$		2,3-Dimethylpentane, <b>A29.6</b>	
2-Methylhexanoic acid, <b>A61.6</b>		$C_7H_{16}NO_3$	
3-Methylhexanoic acid, <b>A'28.4</b>		Carnitine, <b>A2.16</b>	
4-Methylhexanoic acid, <b>A'16.3</b>		3-Carboxy-2,2,5,5-tetramethyl-1-pyrrolidinyloxy, <b>A'18.14</b>	
3,4-Dimethylpentanoic acid, <b>A'15.14</b>		$C_7H_{16}N_2$	
3-Hydroxymethylcyclohexanol, <b>A38.6</b>		2-Aminomethylcyclohexylamines, <b>A37.12, A37.14</b>	
2-Methoxy-4-methylpentan-3-one, <b>A12.1</b>		$C_7H_{16}N_4O_2$	
2-Ethylpentanoic acid, <b>A29.17</b>		Blastidic acid, <b>A9.14</b>	
2,3,3-Trimethylbutyric acid, <b>A'15.15</b>		$C_7H_{16}N_4O_3$	
(1-Hydroxycyclopentyl)ethanol, <b>A'12.9</b>		$\gamma$ -Hydroxyhomoarginine, <b>A10.4</b>	
3-Methylcyclohexane-1,2-diols, <b>A'21.8, A'21.9</b>		$C_7H_{16}O$	
1,2-Bis(hydroxymethyl)-3,3-dimethylcyclopropane, <b>T'14.8</b>		2-Methylhexan-1-ol, <b>A60.5</b>	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

3-Methylhexan-1-ol, <b>A60.6</b>	$C_8H_{10}O$
4-Methylhexan-1-ol, <b>A60.7</b>	Phenyloxiran, <b>A22.9</b>
2-Methylhexan-3-ol, <b>A58.15</b>	$C_8H_8OS$
5-Methylhexan-3-ol, <b>A'2.2</b>	2,3-Dihydrobenzo[b]thiophene-1-oxide, <b>Z'7.13</b>
Heptan-2-ol, <b>A22.12</b>	$C_8H_8O_2S$
Heptan-3-ol, <b>A58.10</b>	2-Mercapto-2-phenylacetic acid, <b>A'19.6</b>
2-Ethylpentan-1-ol, <b>A29.16</b>	$C_8H_8O_3$
2-Ethyl-3-methylbutan-1-ol, <b>A29.1</b>	Mandelic acid, <b>A21.12</b>
2,3-Dimethylpentan-2-ol, <b>A29.8</b>	$C_8H_8O_3S$
3,4-Dimethylpentan-1-ol, <b>A59.13</b>	2-Carboxy-2-phenylmethanesulphonic acid, <b>A'10.8</b>
2,2-Dimethylpentan-3-ol, <b>A'3.13</b>	$\alpha$ -Carboxyphenyl methyl sulphoxide, <b>Z'7.8</b>
3-Methylhexan-3-ol, <b>T'1.2</b>	$C_8H_8O_4S$
$C_7H_{16}O_2$	2-(2-thienyl)-succinic acid, <b>A50.11</b>
2-Propylbutane-1,4-diol, <b>A29.15</b>	$C_8H_8O_6$
2-Ethyl-2-methylbutane-1,4-diol, <b>A55.6</b>	Dilactophoric acid, <b>A'22.9</b>
2-Ethyl-3-methylbutane-1,3-diols, <b>A31.16, A31.21</b>	$C_8H_8S$
3-Hydroxymethylhexan-1-ol, <b>A'16.13</b>	Phenylthiiran, <b>A22.8</b>
4-Methylhexane-1,4-diol, <b>A'16.14</b>	$C_8H_9Br$
$C_7H_{16}O_3$	1-Bromo-1-phenylethane, <b>A22.3</b>
2-Ethyl-3-hydroxymethylbutane-1,4-diols, <b>A28.17</b>	$C_8H_9BrOS$
$C_7H_{17}N$	Methyl $\alpha$ -bromobenzyl sulphoxide, <b>Z'5.2</b>
1-Amino-2-methylhexane, <b>A60.15</b>	Benzyl bromomethyl sulphoxide, <b>Z'5.9</b>
2,3-Dimethyl-2-aminopentane, <b>A'26.16</b>	Bromomethyl <i>p</i> -tolyl sulphoxide, <b>Z'6.15</b>
$C_7H_{17}O_2PS$	$C_8H_9BrO_2S$
<i>O</i> -Propyl- <i>O</i> -isopropyl methylphosphinothionate, <b>Z'3.21</b>	Methyl $\alpha$ -bromobenzyl sulphone, <b>Z'5.3</b>

---

### **C<sub>8</sub>**

$C_8H_4N_2O_8S_2$	$C_8H_9Cl$
2,2'-Dinitro-3,3'-bithienyl-4,4'-dicarboxylic acid, <b>X5.12</b>	1-Chloro-1-phenylethane, <b>A22.3</b>
$C_8H_6ClF_3$	$C_8H_9ClO$
1-Chloro-1-phenyl-2,2,2-trifluoroethane, <b>A'22.13</b>	2-Chloro-1-phenylethanol, <b>A22.5</b>
$C_8H_6DOT$	2-Chloro-2-phenylethanol, <b>D'1.3</b>
[ <sup>2</sup> H <sub>1</sub> , <sup>3</sup> H <sub>1</sub> ]Acetophenone, <b>D2.5</b>	$C_8H_9ClOS$
$C_8H_7BrO_2$	Methyl $\alpha$ -chlorobenzyl sulphoxide, <b>Z'5.4</b>
2-Bromo-2-phenylacetic acid, <b>A23.10</b>	Chloromethyl <i>p</i> -tolyl sulphoxide, <b>Z'6.15</b>
$C_8H_7ClO_2$	Methyl $\alpha$ -chlorobenzyl sulphone, <b>Z'5.3</b>
2-Chloro-2-phenylacetic acid, <b>A23.10</b>	$C_8H_9NOS$
$C_8H_7Cl_3O$	2,3-Dihydrobenzo[b]thiophene 1-imide-1-oxide, <b>Z'7.12</b>
2,2,2-Trichloro-1-phenylethanol, <b>A'13.15</b>	$C_8H_9NO_2$
$C_8H_7F_3O$	Phenylglycine, <b>A19.8</b>
1-Phenyl-2,2,2-trifluoroethanol, <b>A22.18</b>	$C_8H_9NO_4$
$C_8H_8BrNOS$	Trichoviridine, <b>Y'11.11</b>
5-Bromo-2,3-dihydrobenzo[b]thiophen-1-imide-1-oxide, <b>Z'7.12</b>	$C_8H_9NO_5$
$C_8H_8DOT$	Clavulanic acid, <b>Y29</b>
[ <sup>2</sup> H <sub>1</sub> , <sup>3</sup> H <sub>1</sub> ] -1-phenylethanol, <b>D2.8</b>	2-Amino-2-phenylacetic acid, <b>A19.8</b>
$C_8H_8D_2$	$C_8H_{10}ClNOS$
[1- <sup>2</sup> H,2- <sup>2</sup> H]2-( <i>p</i> -Hydroxyphenyl)ethanol, <b>D 2.16</b>	Methyl <i>p</i> -tolyl sulphoxime, <i>N</i> -chloro- <b>Z8.2</b>
$C_8H_8D_2O_2$	$C_8H_{10}O$
[1- <sup>2</sup> H,2- <sup>2</sup> H]2-( <i>p</i> -Hydroxyphenyl)ethanol, <b>D2.18</b>	1-Phenylethanol, <b>A22.6</b>
$C_8H_8D_3N$	Bicyclo-[2.2.2]-oct-5-ene-2-one, <b>A46.14</b>
[1- <sup>2</sup> H, <sup>2</sup> - <sup>2</sup> H]Tyramine, <b>D2.17</b>	$C_8H_{10}OS$
	Methyl <i>p</i> -tolyl sulphoxide, <b>Z7.11</b>
	Ethyl phenyl sulphoxide, <b>Z7.2</b>
	Benzyl methyl sulphoxide, <b>Z'5.6</b>

## Formulae Index

---

$C_8H_{10}O_2$	$C_8H_{12}N_2$
1-Phenylethane-1,2-diol, A22.13	1,2-Diamino-1-phenylethane, A19.7
Norbornenecarboxylic acids, A47.11	Mebanazine, A'8.9
6-Hydroxycyclohex-2-ene-1-acetic acid lactone, Y'8.3	$C_8H_{12}N_2O_6$
$C_8H_{10}O_2S$	Uridine, C3.6
Methyl <i>p</i> -toluenesulphinate, Z'6.16	$C_8H_{12}N_2O_3S$
$C_8H_{10}O_3$	6-Aminopenicillanic acid, Y29.2
4,5-Dihydroxyocta-2,6-dienoic acid 1,5-lactone, Y'3.9	$C_8H_{12}O$
Terrein, Y16.8	2,2-Dimethylhexa-3,4-dienal, X1.10
2-Hydroxy-5-formylcyclopentaneacetic acid lactone, Y'8.2	Bicyclo-[2.2.2]-oct-5-en-2-ol, A46.17
$C_8H_{10}O_4$	Bicyclo-[3.2.1]-octan-2-one, A46.11
Anhydromonocrotalic acid, K23.5	2-(3-Furyl)butane, A'15.4
3-Methylenecyclopropane-1,2-dicarboxylic acid, dimethyl ester, A37.18	2-Vinylcyclohexanone, A'32.2
Cyclohex-4-ene-1,2-dicarboxylic acid, A'23.7	2-Methylbicyclo[2.2.1]heptan-2-ones, A'33.10
$C_8H_{10}O_5$	3,5-Dimethylcyclohex-2-en-1-one, A'24.14
1-(5-Methoxycarbonyl-2-furyl)ethane-1,2-diol, A'11.12	3-Hydroxyoct-5-en-1-yne, Y'8.14
$C_8H_{11}ClO_6$	2-Oxa-twist -brendane, X'10.9
Acetylchloromalic acid, A2.4	2-Oxabrendane, X'10.13
$C_8H_{11}N$	Bicyclo-[3.3.0]-octan-3-one, A37.3
1-Phenylethylamine, A19.14	3-Isopropenylcyclopentanone, T9.1
$C_8H_{11}NO$	1-Methylnorbornan-2-one, T10.4
2-Amino-1-phenylethanol, A23.2	3-Methylcyclopentenyl methyl ketone, A36.7
2-Amino-2-phenylethanol, A19.10	$C_8H_{12}O_2$
1-( <i>o</i> -aminophenyl)-ethanol, A22.6	Norbornane-2-carboxylic acids, A47.10
$C_8H_{11}NOS$	9-Oxabicyclo[3.3.1]nonan-2-one, A'7.5
<i>N,S</i> -Dimethyl- <i>S</i> -phenylsulphoxime, Z8.10	9-Oxabicyclo[3.3.1]non-2-en-6-ol, A'7.9
Methyl- <i>p</i> -tolylsulphoxime, Z8.2	5-Hydroxycyclooctene, A'7.17
$C_8H_{11}NS$	3-Methylcyclohexene-4-carboxylic acid, A'24.4
<i>S</i> -methyl- <i>S</i> -tolylsulphimide, Z7.10	1-Methylcyclopentene-4-carboxylic acid methyl ester, A'25.3
$C_8H_{11}NO_4$	3-Acetoxy-4-methylcyclopentene, A'25.13
<i>trans</i> -Dihydrohaematinimide, Y23.3	2-Hydroxycyclohexaneacetic acid lactone, Y'8.4
2-Cyano-2-methylsuccinic acid dimethyl ester, A'39.2	2-Propyl-3,4-epoxycyclopentanone, Y'8.7
$C_8H_{11}NO_4S$	2,7-Dioxatwistane, X'11.1
2,3-Dihydro-3,6-bis(methoxycarbonyl)1,4-thiazine, A'9.8	$C_8H_{12}O_3$
$C_8H_{11}OP$	2-Methoxycarbonyl-3-methylcyclopentanone, T15.5
<i>tert</i> -Butylmethylphenylphosphine oxide, Z4.14	4-Methyl-3-oxocyclohexanecarboxylic acid, T17.10
$C_8H_{11}OPS$	2,3-Diethylsuccinic anhydride, A45.5
<i>S</i> -Methylmethylphenylphosphinothioate, Z'4.4	2-Oxocyclopentaneacetic acid methyl ester, A'25.4
Ethylphenylphosphinothioic acid, Z'4.5	4-Hydroxycyclopentene-3-acetic acid methyl ester, A'25.5
<i>O</i> -methylphosphinothionate, Z'4.6	$C_8H_{12}O_4$
$C_8H_{12}$	<i>trans</i> -Norcaryophyllenic acid, T'6.1
Cycloocta-1,2-diene, X2.2	Dihydroanhydromonocrotalic acid lactone, K23.3
4-Vinylcyclohexene, A'24.16	Cyclohexane-1,2-dicarboxylic acid, A37.6
1,2-Divinylcyclobutane, A'31.9	3-Methylcyclopropane-1,2-dicarboxylic acid, dimethyl ester, A37.20
2-Methylenebicyclo[2.2.1]heptane, A'33.15	<i>trans</i> -Umbellularic acid, A54.12
2-Methylbicyclo[2.2.1]hept-2-ene, A33.20	<i>cis</i> -Umbellularic acid, A54.13
	<i>cis-trans</i> -Nepetic acid, T14.8

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- cis-cis*-Nepetic acid, T13.8  
*trans-cis*-Nepetic acid, T13.4  
*cis*-Homocaronic acid, A35.8  
*trans*-Homocaronic acid, A35.3  
Cyclohexane-1,3-dicarboxylic acid, A'23.6  
 $\beta$ -Methylterbic acid, A'39.4  
3-Methoxycarbonyl-2-methylpent-3-enoic acid, K'8.8  
 $C_8H_{12}O_5$   
Latifolic acid methyl ester, K'8.9  
 $C_8H_{12}O_6$   
Dihydrohaematinic acid, T22.6  
3-Carboxy-2,2-dimethylglutaric acid, T8.9  
Methyl hydrogen 3-acetoxyglutarate, A6.14  
Ethyl hydrogen 2-acetoxysuccinate, A1.23  
 $C_8H_{12}O_7$   
Dimethyl acetyltartrate, A2.1  
 $C_8H_{12}O_8$   
Phobic acid, A'22.8  
 $C_8H_{12}S$   
2-(3-Thienyl)butane, A'15.4  
 $C_8H_{13}Br$   
4-Methylcyclohexylidenebromomethane, X3.10  
1-Bromo-3,4,4-trimethylpenta-1,2-diene, X'1.2  
 $C_8H_{13}BrO_2$   
1-Acetoxy-2-bromocyclohexane, A18.16  
 $C_8H_{13}Cl$   
1-Chloro-3,4,4-trimethylpenta-1,2-diene, X1.2  
 $C_8H_{13}N$   
Isoheliotridene, K22.4  
2-(3-Pyrrolidyl)butane, A'15.4  
 $C_8H_{13}NO$   
Retronecanone, K22.9  
Supinidine, K22.8  
Tropan-2-one, K28.7  
1-Acetyl-3-methyl-1,2,3,4-tetrahydropyridine, A26.18  
Hexahydro-1-[5H]indolizinone, A'17.13  
 $C_8H_{13}NO_2$   
Trachelanthamidinic acid, K22.13  
Isoretronecanolic acid, K22.10  
Heliotridine, K22.8  
Retronecine, K22.6  
2-Aminonorbornane-2-carboxylic acids, A'33.17, A'33.18  
*N*-Methyl 2-ethyl-2-methylsuccinimide, A'36.14  
 $C_8H_{13}NO_3$   
Otonecine, K24.2  
 $C_8H_{13}NO_4$   
Tropinic acid, A9.16  
 $C_8H_{13}NO_5$   
2-Carbamoyl-2-methylsuccinic acid dimethyl ester, A'39.1  
 $C_8H_{13}N_3O_2S$   
Ergothionine, A20.20
- $C_8H_{13}N_5O_2$   
Viocidic acid, Y22.2  
 $C_8H_{14}$   
Cyclooctene, X2.9  
Methylnorbornene, A47.11  
2,4-Dimethylcyclohexene, A'24.13  
2,2,3-Trimethylmethylenecyclobutane, A'31.16  
2-Methylbicyclo[2.2.1]heptane, A'33.16  
3,4,4-Trimethylpent-1-yne, A'15.12  
4,5-Dimethylcyclohexene, A'23.4  
1,3-Dimethylcyclohexene, A'24.3  
 $C_8H_{14}BrNO_2S$   
4-Amino-3-bromo-2-(2-carbomethoxyethyl)-tetrahydrothiophene, A'9.13  
 $C_8H_{14}N_2O$   
Decahydroquinoxalin-2-one, A'23.11  
Loline, K'8.4  
 $C_8H_{14}O$   
Cyclooct-1-en-3-ol, X2.5  
3-Methylcycloheptanone, A38.8  
4-Methylcycloheptanone, A38.5  
2,4-Dimethylcyclohexanones, A39.8, Y21.8  
2,5-Dimethylcyclohexanone, A39.12  
2,2,3-Trimethylcyclopentanone, A36.17  
3,4,4-Trimethylpent-1-yn-3-ol, X1.3  
3-Isopropenylcyclopentanols, T9.2, T9.3  
Oct-3-yn-2-ol, A12.21  
Hydroxymethylnorbornene, A47.11  
2-Methylnorbornan-2-ol, A46.1  
Bicyclo-[3.2.1]-octan-2-ols, A46.8, A46.12  
Bicyclo-[2.2.2]-octan-2-ol, A46.13  
3,4-Dimethylcyclohexanone, A31.13  
3,5-Dimethylcyclohexanone, A'24.15  
2,6-Dimethylcyclohexanone, A'24.19  
2,2-Dimethyl-3-ethylcyclobutanone, A'31.14  
2-Ethylcyclohexanone, A'32.6  
Oct-1-yn-3-ol, Y'8.16  
 $C_8H_{14}O_2$   
2-Hydroxymethyl-1-methylcyclohex-1-en-4-ol, T40.6  
2,3-Diethyl-4-hydroxybutyric acid lactone, A45.12  
9-Oxabicyclo[4.2.1]-octan-2-ol, A'7.10  
9-Oxabicyclo[3.3.1]non-2-en-6-ol, A'7.9  
4-Hydroxy-2-butylbutyric acid lactone, A'16.12  
4,5-Bis(hydroxymethyl)cyclohexene, A'23.8  
Frontalin, Y'3.6  
3-Methylheptane-2,5-dione, K'8.6  
 $C_8H_{14}O_3$   
4-Methyl-6-oxoheptanoic acid, A39.20  
3,4-Dihydroxyoctanoic acid 1,4-lactone, Y'2.8  
 $C_8H_{14}O_4$   
2,3-Diethylsuccinic acid, A45.5  
2-Butylsuccinic acid, A28.9  
2-Isopropyl-2-methylsuccinic acid, A55.1  
2-Isopropylglutaric acid, A28.6

## Formulae Index

---

3-Methylheptanedioic acid, Y27.4	C <sub>8</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub> S
2,5-Dimethyladipic acid, A32.7	2-Aminoctahydroquinazoline sulphates, A37.16, A37.8
3,4-Dimethyladipic acid, A31.14	C <sub>8</sub> H <sub>15</sub> N <sub>5</sub> O
2,2-Dimethyl-3-acetoxybutyric acid, A12.14	Noformycin, A9.15
Ethyl hydrogen 3-methylglutarate, A32.5	C <sub>8</sub> H <sub>16</sub>
2,3-Diacetoxypentane, A3.7	5-Methylhept-1-ene, A31.2
3-Carboxy-4-methylhexanoic acids, A'15.2	3,4,4-Trimethylpent-1-ene, A'15.16
2-Ethyl-2-methylglutaric acid, A'36.10	1,2-Dimethylcyclohexane, A'23.3
4,5,7-Trihydroxyoctanoic acid 1,4-lactone, Y'5.8	1,1-Dimethyl-2-ethylcyclobutane, A'31.12
C <sub>8</sub> H <sub>14</sub> O <sub>5</sub>	C <sub>8</sub> H <sub>16</sub> ClN
2-Isobutylmalic acid, A'11.1	2-Aminomethylnorbornane hydrochlorides, A46.9, A46.10
C <sub>8</sub> H <sub>14</sub> O <sub>6</sub>	C <sub>8</sub> H <sub>16</sub> N <sub>2</sub>
Dimethoxysuccinic acid, dimethyl ester, A3.8	Decahydroquinazolines, A37.13, A37.17
Monocrotalic acid, K23.7	Decahydroquinoxaline, A'23.16
Isobutyltartaric acids, A'11.6	C <sub>8</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>
2,5-Dimethoxyadipic acid, Y'11.3	Dimethoxysuccinic acid bis-methylamide, A3.8
C <sub>8</sub> H <sub>14</sub> O <sub>2</sub> S <sub>2</sub>	C <sub>8</sub> H <sub>16</sub> O
α-Lipoic acid, A18.13	1-Methyl-1-(1-ethoxyethyl)-cyclopropane, A12.3
C <sub>8</sub> H <sub>14</sub> O <sub>4</sub> S	1-Methoxy-3-methylcyclohexanone, A38.10
2-Thiobutylsuccinic acid, A2.8	1-Cyclohexylethanol, A22.2
3-Mercaptooctanedioic acid, A18.12	Oct-2-en-4-ol, A58.23
Thiodiisobutyric acid, A34.12	2,6-Dimethylcyclohexanol, A'24.20
C <sub>8</sub> H <sub>14</sub> O <sub>4</sub> S <sub>2</sub>	3-(1-Methylpropyl)tetrahydrofurans, A'15.7
Dithiodiisobutyric acid, A34.13	3,3-Dimethylcyclohexanol, A'20.1
C <sub>8</sub> H <sub>14</sub> S	C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>
2-Cyclohexylthiiran, A'22.10	1,2-Bis-hydroxymethylcyclohexane, A37.10
C <sub>8</sub> H <sub>14</sub> S <sub>2</sub>	2-Methylheptanoic acid, A32.4
2,3-Dithiadecalin, A'23.14	Cyclooctane-1,2-diol, A3.16
C <sub>8</sub> H <sub>15</sub> Br	3-Methylheptanoic acid, A61.3
1-Bromo-2-ethoxycyclohexane, A18.15	4-Methylheptanoic acid, A61.4
C <sub>8</sub> H <sub>15</sub> DO	5-Methylheptanoic acid, A61.5
[1- <sup>2</sup> H]-( <i>cis</i> -4-methylcyclohexyl)-methanol, D1.12	2,3,3-Trimethylbutyric acid methyl ester, A'15.15
C <sub>8</sub> H <sub>15</sub> N	3,4,4-Trimethylpentanoic acid, A'15.16
Heliotridane, K22.10	2-Ethyl-2-methylhexanoic acid, A'36.6
Pseudoheliotridane, K22.13	C <sub>8</sub> H <sub>16</sub> O <sub>3</sub>
Indolizidine, A'17.4	2-Hydroxyoctanoic acid, A1.24
C <sub>8</sub> H <sub>15</sub> NO	5-Methoxy-4-methylhexanoic acid, A'16.4
Retronecanol, K22.7	3-Ethyl-5-methoxypentanoic acid, A'26.7
Isoretronecanol, K22.10	C <sub>8</sub> H <sub>16</sub> O <sub>4</sub>
Lindelofidine, K22.10	Heliotrinic acid, K24.3
Trachelanthamidine, K22.13	C <sub>8</sub> H <sub>16</sub> O <sub>5</sub>
Isopelletierine, K19.9	Lasiocarpic acid, K24.9
Hygrine, K19.1	C <sub>8</sub> H <sub>17</sub> Br
Laburnine, K22.13	2-Bromo-octane, A12.15
C <sub>8</sub> H <sub>15</sub> NO <sub>2</sub>	1-Bromo-2-methylheptane, A62.4
Macronecine, K22.12	1-Bromo-3-methylheptane, A62.5
Platynecine, K22.7	1-Bromo-4-methylheptane, A62.6
Dihydroxyheliotridane, K22.14	C <sub>8</sub> H <sub>17</sub> Cl
2-Amino-2-cyclohexylacetic acid, A23.15	2-Chlorooctane, A12.15
C <sub>8</sub> H <sub>15</sub> NO <sub>4</sub>	C <sub>8</sub> H <sub>17</sub> F
N-Carbethoxyethylalanine, A1.18	2-Fluoro-octane, A12.15
C <sub>8</sub> H <sub>15</sub> NO <sub>2</sub> S <sub>2</sub>	
2-Aza-7-thiaspiro-[4.4]-nonane, methanesulpho- nyl derivative, X4.6	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_8H_{17}I$	2-Aminooctane, <b>A'6.8</b>
2-Iodoctane, <b>A12.15</b>	1-Amino-2,2,3-trimethylpentane, <b>A'26.17</b>
$C_8H_{17}N$	$C_8H_{19}O_2PS$
Coniine, <b>K29.7</b>	<i>O</i> -Butyl- <i>O</i> -isopropyl methylphosphinothionate, <b>Z'3.21</b>
1-Cyclohexylethylamine, <b>A19.15</b>	$C_8H_{20}N_2O_2$
$C_8H_{17}NO$	1,4-Di(dimethylamino)butane-2,3-diol, <b>A2.11</b>
Sedridine, <b>K19.8</b>	
Hygroline, <b>K19.2</b>	
Pseudoconhydrine, <b>K19.4</b>	
Pseudohygroline, <b>K19.2</b>	
Allosedridine, <b>K19.7</b>	
Conhydrine, <b>A'17.9</b>	
2-Dimethylaminocyclohexanol, <b>A3.15</b>	
$C_8H_{17}NO_2$	<b>C<sub>9</sub></b>
N, $\gamma$ -Dimethylalloisoleucine, <b>A29.5</b>	$C_9H_7F_3O_3$
2-Amino-2-methylheptanoic acid, <b>A'36.15</b>	MTPA, <b>A'28.10</b>
$C_8H_{17}NO_3$	$C_9H_8Br_2O_4$
Desosamine, <b>Y25.3</b>	Aeroplysinin-2, <b>Y'10.12</b>
4-Amino-3-hydroxy-6-methylheptanoic acid, <b>A'4.3</b>	$C_9H_8CrO_4$
$C_8H_{17}NO_4S$	(Indan-1-one)tricarbonylchromium, <b>A25.19</b>
Ethyl 1-thioglucofuranoside, <b>C3.2</b>	$C_9H_8N_2O_2$
$C_8H_{18}$	5-Phenylhydantoin, <b>A'8.12</b>
3-Methylheptane, <b>A59.8</b>	$C_9H_8O$
2,4-Dimethylhexane, <b>A59.4</b>	Marasin, <b>X1.1</b>
3,4-Dimethylhexane, <b>A'15.1</b>	$C_9H_8O_2$
2,2,3-Trimethylpentane, <b>A'1.13</b>	3-Methylphthalide, <b>Y14.5</b>
$C_8H_{18}INO_2$	$C_9H_8O_3$
2-Methyl-4-(trimethylammoniomethyl)-1,3- dioxolan iodide, <b>A'11.2</b>	Dihydrocoumarilic acid, <b>Y1.12</b>
$C_8H_{18}O$	$\beta$ -Phenylglycidic acids, <b>A19.19, A'8.11</b>
6-Methylheptan-2-ol, <b>A12.8</b>	$C_9H_9BrO_2$
Octan-2-ol, <b>A12.16</b>	2-Bromo-2-phenylpropionic acid, <b>A51.3</b>
Octan-4-ol, <b>A58.2</b>	$C_9H_9BrO_3$
2-Methylheptan-1-ol, <b>A32.3</b>	3-Hydroxy-3-( <i>p</i> -bromophenyl)propionic acid, <b>A'8.16</b>
2-Methylheptan-3-ol, <b>A58.13</b>	$C_9H_9Br_2NO_3$
2-Methylheptan-4-ol, <b>A58.14</b>	Aeroplysinin I, <b>Y19.4</b>
3,3-Dimethyl-2-ethoxybutane, <b>A12.4</b>	$C_9H_9ClO_2$
3-Methylheptan-1-ol, <b>A60.2</b>	2-Chloro-2-phenylpropionic acid, <b>A'13.9</b>
4-Methylheptan-1-ol, <b>A60.3</b>	3-Chloro-2-phenylpropionic acid, <b>A41.11</b>
5-Methylheptan-1-ol, <b>A60.4</b>	$C_9H_9D$
2,2-Dimethylhexan-3-ol, <b>A'3.13</b>	[2- <sup>2</sup> H]-1-Phenylcyclopropanes, <b>D'2.8, D'2.12</b>
2,2,4-Trimethylpentan-3-ol, <b>A'3.13</b>	$C_9H_9DO_3$
Octan-3-ol, <b>Y'8</b>	[2- <sup>2</sup> H]-2-( <i>p</i> -Methoxyphenyl)acetic acid, <b>D2.13</b>
$C_8H_{18}O_2$	$C_9H_9D_3$
2,3-Diethylbutane-2,3-diol, <b>A45.4</b>	[1,1,1- <sup>2</sup> H]-2-Phenylbutane, <b>D'2.6</b>
2-Isopropyl-2-methylbutane-1,4-diol, <b>A'55.4</b>	$C_9H_{11}F_3O_2$
$C_8H_{18}O_4$	2-Phenyl-3,3,3-trifluoropropane-1,2-diol, <b>A'28.14</b>
2-Ethyl-3-methylglutaric acid dimethyl ester, <b>Y'13.5</b>	$C_9H_9I$
3-Ethyl-2-methylglutaric acid dimethyl ester, <b>Y'13.7</b>	1-Iodo-2-phenylcyclopropane, <b>A44.6</b>
$C_8H_{18}S$	$C_9H_9I_2NO_3$
2-Octyl mercaptan, <b>A'6.9</b>	3,5-Diiodotyrosine, <b>A5.7</b>
$C_8H_{19}N$	$C_9H_9NO$
1-Amino-3-methylheptane, <b>A60.4</b>	4-Phenylazetidin-2-one, <b>A19.3</b>
	$C_9H_9NO_2$
	5-Phenyl-2-oxazolidone, <b>A23.6</b>
	$C_9H_9NO_3$
	Adrenochrome, <b>A24.14</b>
	$C_9H_9NO_4$
	2-( <i>p</i> -Nitrophenyl)propionic acid, <b>A41.12</b>
	Cyclodopa, <b>K17.9</b>

## Formulae Index

---

$C_9H_9NO_5$	
5-Phenylloxazolidinethione, A23.4	
$C_9H_{10}N_3O_2$	
2-(2-Benzotriazolyl)propionic acid, A'14.7	
$C_9H_{10}Cl_2O_2$	
Fecht acid diacid chloride, X'3.1	
$C_9H_{10}F_3NO$	
1-Amino-2-phenyl-3,3,3-trifluoropropan-2-ol, A'28.11	
$C_9H_{10}N_2$	
Fecht acid dinitrile, X'3.1	
$C_9H_{10}N_2O_5$	
3-Nitrotyrosine, A5.7	
$C_9H_{10}N_2S$	
2-Mercapto-4-phenylimidazole, Y30.6	
$C_9H_{10}O$	
1-Phenyl-1,2-epoxypropanes, A21.6, A21.7	
Indan-1-ol, A25.18	
2-Phenylpropanal, A48.15	
4-Methylenetricyclo[3.3.0.0 <sup>3,7</sup> ]octan-2-one, X'10.6	
$C_9H_{10}OS$	
2-Methyl-2,3-dihydrobenzothiophene-1-oxides, Z'8.2, Z'8.4	
$C_9H_{10}O_2$	
2-Phenylpropionic acid, A41.12	
1-Phenylpropan-1-ol-2-one, A21.14	
$C_9H_{10}O_2S$	
2-Methyl-2,3-dihydrobenzothiophene-1,1-dioxide, Z'8.5	
2-Thiaadamantane-4,8-dione, A'33.3	
$C_9H_{10}O_3$	
2-Hydroxy-3-phenylpropionic acid, A3.5	
3-Hydroxy-2-phenylpropionic acid, A41.10	
3-Hydroxy-3-phenylpropionic acid, A23.1	
Atrolactic acid, A31.19	
2-Phenoxypropionic acid, A12.7	
$C_9H_{10}O_3S$	
$\alpha$ -Methylsulphinylphenylacetic acid, Z'5.7	
$C_9H_{10}O_4$	
2,3-Dihydroxy-3-phenylpropionic acids, A'8.15, A'8.18	
Carolic acid, A'12.18	
Palasonin, Y'9.7	
$C_9H_{10}O_4S$	
2-Thenylsuccinic acid, A28.15	
$C_9H_{10}O_6$	
Carolinic acid, A'12.17	
$C_9H_{10}S$	
2-Methyl-1-phenylthiirans, A21.4, A21.5	
$C_9H_{11}N$	
1-Aminoindane, A25.17	
2-Methyl-2-phenylaziridine, A40.17	
1-Amino-2-phenylcyclopropane, A'27.15	
$C_9H_{11}NO$	
2-Aminoindan-1-ols, A25.11, A25.12	
5-Hydroxy-5,6,7,8-tetrahydroquinoline, A25.14	
2-Hydroxymethylindoline, A5.20	
$C_9H_{11}NO_2$	
Phenylalanine, A5.12	
N-Phenylalanine, A13.3	
3-Hydroxy-2-phenylpropionic acid, amide, A41.10	
2-Amino-2-phenylpropionic acid, A40.11	
3-Amino-3-phenylpropionic acid, A19.4	
2-( <i>p</i> -aminophenyl)-propionic acid, A41.12	
2-Methylamino-2-phenylacetic acid, A19.8	
$C_9H_{11}NO_3$	
Tyrosine, A5.7	
Phenylserines, A19.17, A21.9	
Phenylisoserines, A19.11, A'8.14	
$\beta$ -Tyrosine, A'10.9	
3-Amino-2-hydroxy-4-phenylbutyric acid, A'22.2	
$C_9H_{11}NO_4$	
DOPA, A5.7	
$C_9H_{11}NO_6$	
Showdomycin, C4.5	
$C_9H_{12}$	
Spiro[4.4]nona-1,6-diene, X'3.5	
$C_9H_{12}NO_4PS$	
S-ethyl O- <i>p</i> -nitrophenyl methylphosphinothioate, Z'3.15	
$C_9H_{12}N_2$	
2-Methyl-1,2,3,4-tetrahydroquinoxaline, A8.8	
$C_9H_{12}N_2O_2$	
Pilosinine, K'10.7	
$C_9H_{12}N_2O_3$	
3-Aminotyrosine, A5.7	
$C_9H_{12}N_2O_6$	
Uridine, C3.6	
$C_9H_{12}O$	
1-Phenylpropan-1-ol, A'19.14	
2-Phenylpropan-1-ol, A41.15	
Bicyclo[3.2.2]non-6-ene-2-one, A46.15	
Bicyclo[2.2.1]hept-2-ene-5-acetic acid, X'10.7	
Tricyclo[4.3.0.0 <sup>3,5</sup> ]nonan-2-one, X'10.10	
9-twist-brendanone, X'10.15	
1-Phenylpropan-2-ol, A21.3	
1-Methoxy-1-phenylethane, A22.6	
Spiro[4.4]nonane-1,6-dione, X'3.9	
Apoverbenone, T'2.7	
$C_9H_{12}OS$	
Ethyl <i>p</i> -tolylsulphoxide, Z7.6	
2-Thiaadamantan-4-one, A'33.4	
Benzyl methyl sulphoxide, Z'5.6	
Phenethyl methyl sulphoxides, Z'5.8, Z'5.11	
$C_9H_{12}O_2$	
1-Phenylpropane-1,2-diols, A21.1, A21.2	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- C<sub>9</sub>H<sub>12</sub>O<sub>2</sub>** continued
- Norbornenecarboxylic acids, methyl esters, A47.11
  - Spiro-[4.4]-nonane-1,6-dione, X'3.9
  - Allethrolone, T17.10
  - Bicyclo[3.3.1]nonane-2,6-dione, A'33.2
  - 2-Phenylpropane-1,2-diol, A'13.10
  - Bicyclo[2.2.2]oct-5-ene-2-carboxylic acid, A'23.12
- C<sub>9</sub>H<sub>12</sub>O<sub>2</sub>S**
- Phenethyl methyl sulphone, A'13.1
- C<sub>9</sub>H<sub>12</sub>O<sub>3</sub>**
- Nona-3,5-diyn-1,2,7-triol, A'11.9
  - 6-Oxobicyclo[2.2.2]octane-2-carboxylic acid, A'23.9
- C<sub>9</sub>H<sub>12</sub>O<sub>4</sub>**
- Genipic acid, T15.9
  - 4-Hydroxy-1-methylcyclohexane-1,2-dicarboxylic acid 1,4-lactone, T40.3
  - Bicyclo[3.2.1]heptane-3,3-dicarboxylic acid, A'31.6
  - 1-Methylcyclohex-4-ene-1,2-dicarboxylic acids, A'38.4, A'38.5
  - Fecht acid, X'3.1
- C<sub>9</sub>H<sub>12</sub>O<sub>5</sub>**
- 4-Oxocyclopentane-1,2-dicarboxylic acid dimethyl ester, Y14.8
- C<sub>9</sub>H<sub>12</sub>O<sub>6</sub>**
- Cyclopropane-1,1,2-tricarboxylic acid trimethyl ester, A'27.5
- C<sub>9</sub>H<sub>12</sub>O<sub>7</sub>**
- Daucic acid dimethyl ester, A'11.15
- C<sub>9</sub>H<sub>12</sub>S**
- Phenethyl methyl sulphide, A'13.1
- C<sub>9</sub>H<sub>13</sub>BrO<sub>2</sub>**
- 2-Bromo-2-(4-methylcyclohexylidene)acetic acid, X3.8
- C<sub>9</sub>H<sub>13</sub>ClO<sub>5</sub>S**
- Ethylphenyloxosulphonium perchlorate, Z7.3
- C<sub>9</sub>H<sub>13</sub>DO<sub>2</sub>**
- 4-Methylcyclohexylideneacetic acid- $\alpha$ -d X3.7
  - [1-<sup>2</sup>H]7,7-Dimethylnorbornane-2,3-dione, D'3.3
- C<sub>9</sub>H<sub>13</sub>N**
- Amphetamine, A5.10
  - 2-Amino-1-phenylpropane, A4.9
  - 1-Amino-1-phenylpropane, A'8.3
  - 2-Pyridylbutanes, A'15.6
- C<sub>9</sub>H<sub>13</sub>NO**
- 1-Amino-2-phenylpropan-2-ol, A51.10
  - 2-Amino-2-phenylpropan-1-ol, A40.16
  - 2-Amino-3-phenylpropan-1-ol, A5.13
  - 2-Amino-1-(*p*-hydroxyphenyl)propane, A5.3
  - N-Methyl-N-ethylaniline oxide, Z3.1
  - 4-Azatricyclo[4.4.0.0<sup>3,8</sup>]decan-5-one, X'10.4
- C<sub>9</sub>H<sub>13</sub>NOS**
- N,N-Dimethyl-*p*-toluenesulphinamide, Z'6.9
- C<sub>9</sub>H<sub>13</sub>NO<sub>2</sub>**
- 3-(1,4-Cyclohexadienyl)-alanine, A5.9
  - Tyrosinol, A5.2
  - Synephrine, A22.14
- C<sub>9</sub>H<sub>13</sub>NO<sub>3</sub>**
- Adrenaline, A22.14
- C<sub>9</sub>H<sub>13</sub>NO<sub>5</sub>**
- 4-Carbethoxy-2-pyrrolidone-4-acetic acid, X4.5
- C<sub>9</sub>H<sub>13</sub>N<sub>3</sub>O<sub>4</sub>**
- 2'-Deoxycytidine, C3.8
- C<sub>9</sub>H<sub>13</sub>N<sub>5</sub>O<sub>5</sub>**
- 1-( $\beta$ -D-Arabinofuranosyl)cytosine, C'1.3
- C<sub>9</sub>H<sub>13</sub>OP**
- Ethylmethylphenylphosphine oxide, Z6.2
  - O-Methyl ethylphenylphosphinate, Z'4.1
- C<sub>9</sub>H<sub>13</sub>OPS**
- O-Methyl ethylphenylphosphinothionate, Z'4.2
  - Ethyl methyl phosphinothiolate, Z'4.5
- C<sub>9</sub>H<sub>13</sub>PS**
- Ethylmethylphenylphosphine sulphide, Z'4.9
- C<sub>9</sub>H<sub>14</sub>**
- Cyclonona-1,2-diene, X2.4
  - Apopinene, T'2.6
  - 2,2-Dimethyl-3-ethylmethylenecyclobutane, A'31.18
  - twist*-Brendane, X'10.16
- C<sub>9</sub>H<sub>14</sub>Br<sub>2</sub>**
- 9,9-Dibromobicyclo-[6.1.0]-nonane, X2.8
- C<sub>9</sub>H<sub>14</sub>N<sub>2</sub>**
- 2-Hydrazino-1-phenylpropane, A5.4
- C<sub>9</sub>H<sub>14</sub>N<sub>2</sub>O**
- 4-Methoxysuberic acid dinitrile, A'7.14
- C<sub>9</sub>H<sub>14</sub>N<sub>2</sub>OS**
- S-Dimethylamino-*N*-methyl-*S*-phenylsulphoxime, Z8.7
- C<sub>9</sub>H<sub>14</sub>N<sub>4</sub>O<sub>3</sub>**
- Carnosine, A20.21
- C<sub>9</sub>H<sub>14</sub>O**
- Camphenilone, T11.14
  - Cryptone, T2.15
  - Sabina ketone, T7.17
  - Bicyclo-[4.3.0]-nonan-3-one, A37.7
  - Bicyclo-[4.3.0]-nonan-8-one, A37.4
  - Lauroenal, T11.15
  - 2-Ethylidene-3,4,4-trimethylcyclobutanones, A'31.7, A'31.8
  - 2-Allylcyclohexanone, A'32.3
  - 4-Ethyl-4-methylcyclohex-2-ene-1-one, A'39.15
  - Nopinone, T'2.8
  - 7,7-Dimethylbicyclo[2.2.1]heptan-2-one, D'3.1
- C<sub>9</sub>H<sub>14</sub>O<sub>2</sub>**
- Boschnialactone, T15.4
  - 3-Acetoxy-5-methylcyclohexene, A38.19
  - 2-Methylocta-2,3-dienoic acid, X1.8
  - 4-Methylcyclohexylideneacetic acid, X3.9

## Formulae Index

---

2-Formyl-3-methylcyclopentylacetaldehyde, <b>T13.2</b>	$C_9H_{15}N_7O_4$ Saxitoxin, <b>Y'12.8</b>
2-Acetoxynorbornane, <b>A47.10</b>	$C_9H_{16}$
Norbornane-2-carboxylic acids, methyl esters, <b>A47.10</b>	Apofenchene, <b>T10.10</b>
Tetrahydroanhydrodeoxyaucubigenin, <b>T15.12</b>	Bicyclo-[6.1.0]nonane, <b>X2.7</b>
2-(5-Hydroxy-2-methylenecyclohexylidene) ethanol, <b>T48.11</b>	1-Methylene-2,2,3-trimethylcyclopentane, <b>A36.18</b>
Bicyclo[2.2.2]octane-2-carboxylic acid, <b>A'23.12</b>	Pulegene, <b>T7.15</b>
5-Methoxycyclooctene, <b>A'7.17</b>	Nona-4,5-diene, <b>X'1.4</b>
[2- <sup>18</sup> O]7,7-Dimethylbicyclo[2.2.1]heptane-2,3- dione, <b>D'3.2</b>	(4-Methylcyclohexylidene)ethane, <b>X'1.10</b>
4,5,5-Trimethylhexa-2,3-dienoic acid, <b>X'1.1</b>	$C_9H_{16}INO_2$
4,5,5-Trimethylhexa-2-ynoic acid, <b>X'1.3</b>	2-Acetoxypropyltrimethylammonium iodide, <b>A'22.6</b>
$C_9H_{14}O_3$	$C_9H_{16}O$
Tetrahydroanhydroaucubigenin, <b>T15.12</b>	1-(1-Cyclohexenyl)-1-methoxyethane, <b>A22.1</b>
Nepetonic acids, <b>T14.6, T14.8</b>	2,3,6-Trimethylcyclohexanone, <b>A39.7</b>
Pinononic acid, <b>T8.15</b>	3,4-Diethylcyclopentanone, <b>A45.2</b>
Bicyclo[2.2.2]oct-5-ene-2-carboxylic acid, <b>A'23.12</b>	1,5,5-Trimethylbicyclohexan-6-ols, <b>T12.7</b>
4-Oxo-2,3-dimethylcyclohexanecarboxylic acids, <b>A'25.20</b>	3-Methoxycyclooctene, <b>X2.5</b>
7,7-Dimethoxybicyclo[2.2.1]heptan-2- one, <b>A'33.10</b>	3-Ethoxy-5-methylcyclohex-1-enes, <b>A38.14, A38.15</b>
2-Methyl-2-propylglutaric anhydride, <b>A'39.13</b>	Bicyclo[3.2.2]nonan-2-ol, <b>A46.14</b>
Anhydride from ligantrol, <b>T'1.3</b>	3,3,5-Trimethylcyclohexanone, <b>A'24.17</b>
$C_9H_{14}O_4$	2-Ethyl-3,4,4-trimethylcyclobutanone, <b>A'31.11</b>
<i>trans</i> -Caryophyllenic acid, <b>T'6.3</b>	2-Propylcyclohexanone, <b>A'32.1</b>
Boschnialinic acids, <b>T15.6, T15.8</b>	2-Isopropylcyclohexanone, <b>A'32.7</b>
Cyclopentane-1,2-diacetic acid, <b>A36.15</b>	$C_9H_{16}O_2$
3-Hydroxy-2-methoxymethylcyclopent-4-ene-1- acetic acid, <b>Y'8.5</b>	3,4-Diethyl-5-hydroxypentanoic acid lactone, <b>A45.3</b>
$C_9H_{14}O_6$	Spiro-[4.4]-nonane-1,6-diol, <b>X'3.8</b>
Camphoronic acid, <b>T12.1</b>	Camphonanic acid, <b>T12.6</b>
$C_9H_{14}O_8$	3-(1-Hydroxycyclopentyl)butan-2-one, <b>A'12.3</b>
Phorbic acid momomethyl ester, <b>A'22.8</b>	3-Butyl-5-hydroxypentanoic acid lactone, <b>A'26.8</b>
$C_9H_{15}DO_2$	5-Oxo-2-isopropylhexanal, <b>T'10.8</b>
2-[ <sup>2</sup> H]-2-( <i>cis</i> -4-methylcyclohexyl)-acetic acid, <b>D1.21</b>	<i>exo</i> -Brevicomin, <b>Y'3.4</b>
$C_9H_{15}NO$	$C_9H_{16}O_3$
Bicyclo-[4.3.0]-nonan-8-one, oxime, <b>A37.4</b>	4,5-Dimethoxycycloheptanone, <b>A3.13</b>
1-Oxoquinolizidine, <b>A15.8</b>	4-Hydroxy-1,2,2-trimethylcyclopentane-1- carboxylic acid, <b>T55.3</b>
2-Oxoquinolizidine, <b>A15.9</b>	Cinenic acid, <b>T3.10</b>
3-Oxoquinolizidine, <b>A15.10</b>	2-Isopropyl-5-oxohexanoic acid, <b>A28.2</b>
$C_9H_{15}NO_2$	4-Hydroxy-2,3-dimethylcyclohexanecarboxylic acid, <b>A'25.19</b>
6-Methoxytropinone, <b>K28.5</b>	3-Methoxycyclohexanecarboxylic acid methyl ester, <b>A38.16</b>
Meroquinene, <b>A'32.17</b>	$C_9H_{16}O_4$
2,N-diethyl-2-methylsuccinimide, <b>A'36.14</b>	3-Isopropyladipic acid, <b>A28.1</b>
3-Acetoxyquinuclidine, <b>A'10.4</b>	2,2,3-Trimethyladipic acid, <b>A36.16</b>
5-Aminobicyclo[2.2.2]octane-2-carboxylic acid, <b>X'10.3</b>	3-Ethyl-3-methyladipic acid, <b>A55.7</b>
$C_9H_{15}NO_6$	2,6-Dimethylheptanedioic acid, <b>A32.8</b>
<i>N</i> -Carbethoxyethylaspartic acid, <b>A4.6</b>	3-Methyloctanedioic acid, <b>A32.9</b>
	2,3-Diethylsuccinic acid monomethyl ester, <b>A45.10</b>
	2,3-diethylglutaric acid, <b>A45.11</b>
	2-Pentylsuccinic acid, <b>A28.9</b>

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- C<sub>9</sub>H<sub>16</sub>O<sub>4</sub> continued  
 2-Isopropyl-2-methylglutaric acid, A55.2  
 Eucommiol, A'25.18  
 2-Methylsuberic acid, A'31.1  
 2-Methyl-2-propylglutaric acid, A'39.13
- C<sub>9</sub>H<sub>16</sub>O<sub>4</sub>S  
 2-Thiopentylsuccinic acid, A2.8
- C<sub>9</sub>H<sub>16</sub>O<sub>5</sub>  
 3-Methoxyadipic acid, dimethyl ester, A25.20  
 4-Methoxysuberic acid, A'7.14
- C<sub>9</sub>H<sub>16</sub>O<sub>6</sub>  
 2,3-Dihydroxy-2-isopentylsuccinic acid, A'29.14
- C<sub>9</sub>H<sub>16</sub>S  
 2-Cyclohexyl-2-methylthiiran, A'22.11  
 3-Methyl-2-thiahhydrindans, A'23.10  
 1-Methyl-2-thiahhydrindans, A'23.13
- C<sub>9</sub>H<sub>16</sub>S<sub>2</sub>  
 9-Methyl-2,3-dithiadecalins, A'38.6
- C<sub>9</sub>H<sub>17</sub>N  
 Pinidine, K19.12
- C<sub>9</sub>H<sub>17</sub>NO  
 N-Methylisopelletierine, K19.9
- C<sub>9</sub>H<sub>17</sub>NO<sub>2</sub>  
 Hexahydrophenylalanine, A5.8  
 2-Aminocyclohexanecarboxylic acid ethyl ester, A37.11  
 2-Amino-2-cyclohexylpropionic acid, A40.14
- C<sub>9</sub>H<sub>17</sub>NO<sub>3</sub>  
 1-Acetamido-2-acetoxypentane, A6.10  
 Hexahydrotyrosine, A5.1
- C<sub>9</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub>  
 Dopastin, A'4.11
- C<sub>9</sub>H<sub>18</sub>  
 1,2-Dipropylcyclopropane, A'27.20
- C<sub>9</sub>H<sub>18</sub>Br<sub>2</sub>  
 1,5-Dibromo-2,3-diethylpentane, A34.18
- C<sub>9</sub>H<sub>18</sub>N<sub>2</sub>O  
 1-Methyl-4-propylprolinamides, Y21.2, Y21.3
- C<sub>9</sub>H<sub>18</sub>O  
 1-Cyclohexylethanol, A22.2  
 7-Methoxyoct-1-ene, A12.17  
 1-Cyclohexylpropan-1-ol, A58.6  
 3,3,5-Trimethylcyclohexanol, A'24.18
- C<sub>9</sub>H<sub>18</sub>O<sub>2</sub>  
 2-Methyloctanoic acid, A61.10  
 3-Methyloctanoic acid, A'26.6  
 4-Methyloctanoic acid, A61.11  
 5-Methyloctanoic acid, A61.12  
 6-Methyloctanoic acid, A27.17  
 2,6-Dimethylheptanoic acid, T1.7
- C<sub>9</sub>H<sub>18</sub>O<sub>3</sub>  
 3-Hydroxynonanoic acid, A7.6  
 1,2-Bis(hydroxymethyl)-3-(3-hydroxypropyl)cyclopropane, T'14.9
- C<sub>9</sub>H<sub>19</sub>Br  
 1-Bromo-3-methyloctane, A62.13
- 1-Bromo-4-methyloctane, A62.14  
 1-Bromo-5-methyloctane, A62.15  
 1-Bromo-6-methyloctane, A62.16
- C<sub>9</sub>H<sub>19</sub>N  
 3,4-Diethylpiperidine, A34.19  
 1,2,2,3-Tetramethylcyclopentylamine, A36.19
- C<sub>9</sub>H<sub>19</sub>NO  
 2-Ethylpentanoic acid dimethylamide, A45.6
- C<sub>9</sub>H<sub>19</sub>NO<sub>5</sub>  
 Methyl thiolinicosaminide, Y21.7
- C<sub>9</sub>H<sub>20</sub>  
 3-Methyloctane, A27.13  
 4-Methyloctane, A59.10  
 3-Ethyl-4-methylhexane, A34.17  
 2,5-Dimethylheptane, A59.5
- C<sub>9</sub>H<sub>20</sub>CINO<sub>2</sub>  
 Muscarine, Y20.8
- C<sub>9</sub>H<sub>20</sub>O  
 Nonan-2-ol, K19.5  
 Nonan-3-ol, A58.20  
 Nonan-4-ol, A58.21  
 2-Methyloctan-3-ol, A58.17  
 2-Methyloctan-4-ol, A58.18  
 3-Methyloctan-1-ol, A60.10  
 4-Methyloctan-1-ol, A60.11  
 5-Methyloctan-1-ol, A60.12  
 6-Methyloctan-1-ol, A27.13  
 2-Methoxy-6-methylheptane, A12.8  
 2,2-Dimethylheptan-3-ol, A'3.13  
 2,2,5-Trimethylhexan-3-ol, A'3.13
- C<sub>9</sub>H<sub>20</sub>O<sub>3</sub>  
 6-Methyloctane-1,2,8-triol, Y'12.1
- C<sub>9</sub>H<sub>21</sub>N  
 1-Amino-4-methyloctane, A60.17  
 2-(Dimethylamino)heptane, K19.3
- C<sub>10</sub>**
- C<sub>10</sub>H<sub>4</sub>N<sub>2</sub>O<sub>8</sub>S<sub>2</sub>  
 2,2'-Dinitro-3,3'-bithienyl-4,4'-dicarboxylic acid, X5.7  
 4,4'-Dinitro-3,3'-bithienyl-2,2'-dicarboxylic acid, X5.6
- C<sub>10</sub>H<sub>4</sub>N<sub>2</sub>O<sub>8</sub>Se<sub>2</sub>  
 2,2'-Dinitro-3,3'-biselenienyl-4,4'-dicarboxylic acid, X5.10
- C<sub>10</sub>H<sub>7</sub>BrO<sub>2</sub>  
 3-Bromo-4-phenylcrotonolactone, X3.4
- C<sub>10</sub>H<sub>7</sub>MnO<sub>5</sub>  
 Tricarbonylmanganese-2-methylcyclopentadienylcarboxylic acid, X9.17  
 Tricarbonylmanganese-3-methylcyclopentadienylcarboxylic acid, X9.14
- C<sub>10</sub>H<sub>8</sub>O  
 Naphthalene-1,2-epoxide, A25.15
- C<sub>10</sub>H<sub>8</sub>O<sub>2</sub>  
 4-Phenylbuta-2,3-dienoic acid, X3.3

## Formulae Index

---

$C_{10}H_8O_4$	
3-Methylphthalide-3-carboxylic acid, A51.7	
$C_{10}H_9DO$	
[2- <sup>2</sup> H]1-Benzoylcyclopropane, D'2.10	
$C_{10}H_9D_3OS$	
2-Methyl-2-(trideuteriomethyl)-2,3-dihydrobenzothiophene-1-oxides, Z'8.1	
$C_{10}H_9D_3O_2S$	
2-Methyl-2,3-dihydrothiophene-2-carboxylic acid 1,1-dioxide, Z'8.3	
$C_{10}H_9F_3O_3$	
MPTA, A'28.10	
3-Hydroxy-3-phenyl-4,4,4-trifluorobutyric acid, A'28.12	
$C_{10}H_9NO_2$	
2-Cyano-2-phenylpropionic acid, A55.12	
$C_{10}H_{10}$	
2-Phenylmethylenecyclopropane, A44.18	
$C_{10}H_{10}Cl_2O_4$	
2-trans-Allyl-3,5-dichloro-1-hydroxy-4-oxocyclopentane-1-carboxylic acid, methyl ester, - Y'10.11	
$C_{10}H_{10}F_3NO$	
3-Hydroxy-3-phenyl-4,4,4-trifluorobutyric acid amide, A'28.12	
$C_{10}H_{10}N_2O_2$	
2-(2-Indazolyl)propionic acid, A'14.7	
$C_{10}H_{10}O$	
1,2-Epoxytetralin, A25.10	
3-Methylindan-1-one, A49.3	
2-Methylindan-1-one, A25.14	
2,3-Dihydrotriquinacen-2-one, A'34.12	
$C_{10}H_{10}O_2$	
3,4-Dihydro-4-methylcoumarin, A49.5	
Indane-1-carboxylic acid, A25.21	
1,2-Dihydro-1,2-dihydroxynaphthalene, A25.5	
2-Phenylcyclopropanecarboxylic acids, A44.6, A44.9	
1-(3-Hydroxy-2-tetrahydrofurylidene)-hexa-2,4-diyne, Y15.7	
$C_{10}H_{10}O_3$	
Mellein, Y2.9	
2,3-Epoxy-3-phenylbutyric acid, A51.20	
8-Hydroxydec-2-en-4,6-dynoic acid, A'11.11	
Adamantane-2,4,6-trione, A'33.5	
$C_{10}H_{10}O_4$	
2-Phenylsuccinic acid, A50.12	
Glutinic acid cyclopentadiene adduct, X3.2	
4-Hydroxymellein, Y2.10	
$C_{10}H_{10}O_6$	
Chorismic acid, A3.1	
$C_{10}H_{11}BrO_3$	
9-Bromo-2-oxahomoadamantan-3,7-dione, A'33.8	
$C_{10}H_{11}ClO_3$	
9-Chloro-2-oxahomoadamantan-3,7-dione, A'33.8	
$C_{10}H_{11}ClO_5$	
2-trans-Allyl-3-chloro-1,5-dihydroxy-4-oxocyclopent-2-ene-1-carboxylic acid methyl ester, Y'10.10	
$C_{10}H_{11}DO$	
[4- <sup>2</sup> H]-4-Phenylbutan-2-one, D'1.7	
$C_{10}H_{11}DO_3$	
[3- <sup>2</sup> H]- <i>p</i> -Methoxyphenylpropionic acid, D2.11	
$C_{10}H_{11}D_3O$	
[1- <sup>2</sup> H]-2-Benzylxypropane, D'2.2	
$C_{10}H_{11}FeN$	
2-Methylazaferrocene, X9.1	
$C_{10}H_{11}IO_3$	
9-Iodo-2-oxahomoadamantane-3,7-dione, A'33.8	
$C_{10}H_{11}NO$	
Abikoviromycin, Y30.9	
Boschniakine, T15.7	
5-Phenyl-2-pyrrolidone, A'30.5	
4-Methyl-4-phenyl-2-azetidinone, A'13.4	
$C_{10}H_{11}NO_2$	
4-Methyl-4-phenyl-2-oxazolidinone, A'13.3	
$C_{10}H_{11}NO_2S$	
4-Carboxy-2-phenylthiazolidine, A'9.11	
$C_{10}H_{11}NO_4$	
3-Carboxy-6,7-dihydro-1,2,3,4-tetrahydroquinoline, A5.15	
$C_{10}H_{12}$	
1-Methylindane, A50.14	
1-Methyl-2-phenylcyclopropane, A44.19	
3-Phenylbut-1-ene, A49.12	
$C_{10}H_{12}D_2O_2$	
[1- <sup>2</sup> H]-2-Benzylxypropan-1-ol, D'2.3	
$C_{10}H_{12}F_3NO$	
4-Amino-2-phenyl-1,1,1-trifluorobutan-2-ol, A'28.15	
$C_{10}H_{12}N_2$	
Anatabine, K18.9	
3-Methylcyclohexylidenemalononitrile, A'24.1	
$C_{10}H_{12}N_3O$	
Cotinine, K20.7	
$C_{10}H_{12}N_2O_2$	
Hydroxycotinine, K20.7	
$C_{10}H_{12}N_2O_3$	
Kynurenone, A20.18	
$C_{10}H_{12}N_2O_5$	
Dinoceb, A49.15	
$C_{10}H_{12}N_2O_5S$	
7-Aminocephalosporanic acid, Y29	
$C_{10}H_{12}N_4O_3$	
Adrenochrome semicarbazone, A24.14	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{10}H_{12}O$
- 1-Hydroxymethylindane, **A50.15**
  - 1,2,3,4-Tetrahydro-2-naphthol, **A25.16**
  - 1-Hydroxymethyl-2-phenylcyclopropane, **A44.14**
  - 3-Phenylbutan-2-one, **A41.1**
  - 1-Methylindan-1-ol, **A25.23**
  - 1,2,3,4-Tetrahydro-1-naphthol, **A25.8**
  - Tetracyclo[3.2.1.O<sup>2,7</sup>.2<sup>3,8</sup>]decan-6-one, **X'10.11**
- $C_{10}H_{12}OS$
- Cyclopropyl *p*-tolyl sulphoxide, **Z'6.1**
  - Benzyl-(2,3-epithiopropyl)ether, **A14.14**
- $C_{10}H_{12}O_2$
- 2-Phenylbutyric acid, **A41.13**
  - 3-Phenylbutyric acid, **A49.7**
  - 1,2-Dihydroxytetralin, **A25.11**
  - 3-Hydroxy-3-phenylbutan-2-one, **A51.2**
  - Tetralin-1,2-diol, **A'7.12**
  - 1-Methoxy-1-phenylpropanone, **A'19.9**
  - 2-Methyl-3-phenylpropionic acid, **A31.22**
- $C_{10}H_{12}O_3$
- 2-Methoxy-2-phenylacetic acid, methyl ester, **A21.12**
  - $\alpha$ -Methyltropic acid, **A55.11**
  - 3-Methoxy-3-phenylpropionic acid, **A21.15**
  - 2-Hydroxy-2-phenylbutyric acid, **A51.14**
  - 3-Hydroxy-3-phenylbutyric acid, **A51.11**
  - 2-(*p*-Methoxyphenyl)-propionic acid, **Y5.7**
  - 2-Hydroxy-2-methyl-3-phenylpropionic acid, **A'11.4**
  - 9-Oxobicyclo[3.3.1]non-2-ene-7-carboxylic acid, **A'33.7**
- $C_{10}H_{12}O_4$
- Hygrophyllinecic acid dilactone, **K23.2**
  - Curvulol, **T2.6**
  - Bicyclo[2.2.2]oct-5-ene-2,3-dicarboxylic acid, **A'23.2**
  - Cantharic acid, **Y'9.9**
- $C_{10}H_{12}O_5$
- 4,5-Dihydroxy-3,5-dimethyl-4-hydroxymethyl-2-methyleneadipic acid dilactone, **K'8.2**
- $C_{10}H_{13}As$
- Allylmethylphenylarsine, **Z3.11**
- $C_{10}H_{13}Br$
- 1-Bromo-3-phenylbutane, **A49.10**
- $C_{10}H_{13}Cl$
- 1-Chloro-2-methyl-3-phenylpropane, **A43.21**
  - 1-Chloro-2-phenylbutane, **A'20.2**
- $C_{10}H_{13}ClO_4$
- Scleratinic acid, **K'8.3**
- $C_{10}H_{13}D$
- [1-<sup>2</sup>H]-1-Phenylbutane, **D'1.6**
- $C_{10}H_{13}N$
- 2-Aminotetralin, **A20.13**
  - Actinidine, **T13.17**
  - 1,2,3,4-Tetrahydronaphthylamine, **A25.10**
- $C_{10}H_{13}NO$
- 2-Phenylpyrrolidine, **A'30.7**
  - 3-Hydroxymethyl-1,2,3,4-tetrahydroisoquinoline, **A5.16**
  - 3-Amino-3-phenylbutan-2-one, **A40.12**
  - 2-Amino-1-tetralols, **A20.1, A20.10**
- $C_{10}H_{13}NO_2$
- 2-Amino-2-methyl-2-phenylpropionic acid, **A40.3**
  - 2-Amino-2-phenylbutyric acid, **A40.6**
  - 4-Amino-4-phenylbutyric acid, **A'30.6**
- $C_{10}H_{13}NO_4$
- $\alpha$ -Methyl-DOPA, **A40.3**
- $C_{10}H_{13}NO_5$
- 3-(3-Methoxy-4-hydroxyphenyl)serine, **A'10.11**
  - Oryzoxymycin, **Y'14.9**
- $C_{10}H_{13}N_5O_4$
- Formycin, **C3.7**
- $C_{10}H_{13}P$
- Allylmethylphenylphosphine, **Z5.12**
- $C_{10}H_{13}PS$
- Allylmethylphenylphosphine sulphide, **Z5.1**
- $C_{10}H_{14}$
- 2-Phenylbutane, **A42.16**
  - Twistene, **X'10.1**
  - 1,2-Divinylcyclohexane, **A'23.19**
  - Bicyclo[7.1.0]deca-4,5-diene, **X'1.5**
- $C_{10}H_{14}BrCl$
- 1-Bromo-2-(*trans*-2-chlorovinyl)-4,5-dichloro-1,5-dimethylcyclohexane, **Y'7.11**
- $C_{10}H_{14}Br_2O$
- 3,4,4-Trimethyl-1,7-dibromonorbornan-2-one, **T11.10**
- $C_{10}H_{14}N_2$
- 3-Amino-1-phenylpyrrolidine, **A20.6**
  - Nicotine, **K20.4**
  - Anabasine, **K18.9**
  - Cyclohexane-1,2-diacetic acid dinitrile, **A37.9**
- $C_{10}H_{14}N_2O$
- 1-Phenylazoxyethane, **A'8.10**
- $C_{10}H_{14}O$
- Carvone, **T5.8**
  - Pinocarvone, **T9.11**
  - 3-Phenylbutan-2-ols, **A49.14, A49.19**
  - 2-(2-Hydroxyphenyl)-butane, **A49.15**
  - Menthofuran, **T1.3**
  - 1-Ethoxy-1-phenylethane, **A22.6**
  - Chrysanthenone, **T8.14**
  - Perillaldehyde, **T8.12**
  - Verbenone, **T8.11**
  - 1-Phenylbutan-1-ol, **A'19.8**
  - 2-Phenylbutan-1-ol, **A41.7**
  - 3-Phenylbutan-1-ol, **A49.6**
  - 2-Phenylbutan-2-ol, **A51.16**
  - 2-Methyl-1-phenylpropan-1-ol, **A'19.13**
  - 2-Methyl-3-phenylpropan-1-ol, **A43.21**

## Formulae Index

---

Carquejol, T16.9	Seneciphylllic acid, K23.8
Myrtenal, T9.7	C <sub>10</sub> H <sub>14</sub> OS
Umbellulone, T7.2	Propyl <i>p</i> -tolyl sulphoxides, Z7.6
Filifolone, T10.1	Mesityl methyl sulphoxide, Z8.5
Tricyclo[5.2.1.0 <sup>4,10</sup> ]decan-2- on e , A'34.13	C <sub>10</sub> H <sub>15</sub> As
6-Methylenespiro[4.4]nonan-1-one, X'3.7	Methylphenylpropylarsine, Z3.6
Twistan-4-one, X'10.8	C <sub>10</sub> H <sub>15</sub> AsS
Tricyclo[4.3.1.0 <sup>4,9</sup> ]decan-3-one, X'10.14	Methylphenylpropylarsine sulphide, Z'2.10
C <sub>10</sub> H <sub>14</sub> OS	C <sub>10</sub> H <sub>15</sub> BrO
Benzyl isopropyl sulphoxide, Z'5.6	2-Bromo-1-decalones,A39.3, A39.4, A39.9, A39.11
C <sub>10</sub> H <sub>14</sub> O <sub>2</sub>	9-Bromo-1-decalones, A39.6, A39.10
Camphorquinone, T12.8	<i>endo</i> -3-Bromocamphor, T11.4
3-Acetoxyoctocyclyne, X2.6	8-Bromocamphor, T11.6
Nepetalactone, T14.9	9-Bromocamphor, T28.15
Isonepetalactone, T14.10	C <sub>10</sub> H <sub>15</sub> Br <sub>3</sub> O
Cinerolone, T17.4	<i>cis</i> -Carvone tribromide, T5.6
2-Ethoxy-2-phenylethanol, A22.10	C <sub>10</sub> H <sub>15</sub> BrO <sub>4</sub> S
Piperitenone oxide, T4.3	3-Bromocamphor-9-sulphonic acid, T11.2
Neonepetalactone, T14.7	C <sub>10</sub> H <sub>15</sub> IO
2-Phenylbutane-1,2-diol, A51.15	8-Iodocamphor, T28.10
8-Methylperhydroindane-2,5-dione, A53.15	C <sub>10</sub> H <sub>15</sub> N
3-Phenylbutane-1,3-diol, A51.12	2-Amino-3-phenylbutanes, A49.16, A49.18
Chaminic acid, T6.3	1-Amino-2-phenylbutane, A41.5
Isochamic acid, T6.3	2-Methylamino-1-phenylpropane, A4.9
Chamic acid, T6.16	2-Amino-2-phenylbutane, A40.8
Dispiro[4.0.4.1]-11-oxaundecan-1-one, X'3.12	3-Amino-1-phenylbutane, A'14.16
Spiro[4.5]decan-1,6-dione, X'3.13	C <sub>10</sub> H <sub>15</sub> NO
Decalin-1,4-dione, A'34.4	Ephedrine, A21.10
Decalin-1,5-dione, A'34.7	$\psi$ -Ephedrine, A21.11
$\Delta^5$ -Hydroxy-1-octalone, A'34.14	1-Amino-2-phenylbutan-2-ol, A51.13
$\Delta^{4(9)}$ -1-Hydroxy-8-methylperhydroindan-5-one, A'38.15	2-Methylamino-1-phenylpropan-1-ol, A21.11
Filifolide A, T'2.5	2-Amino-2-phenylbutan-1-ol, A40.7
Filifolide B, T'2.1	2-(2-Cyanoethyl)-4-methylcyclohexanones, A'32.8
C <sub>10</sub> H <sub>14</sub> O <sub>3</sub>	C <sub>10</sub> H <sub>15</sub> NO <sub>2</sub>
3-O-Benzylglycerol, A14.10	2-Amino-1-(3,4-dihydroxyphenyl)-propane, A4.9
Piperinic acid, T1.6	C <sub>10</sub> H <sub>15</sub> OP
5-Isopropyl-5-methyl-3-oxocyclopentenecarboxylic acid, T7.3	Methylphenylpropylphosphine oxide, Z4.12
Mephenesin, A'11.7	Isopropylmethylphenylphosphine oxide, Z4.7
Diplodialide A, Y'5.1	C <sub>10</sub> H <sub>15</sub> OPS <sub>2</sub>
C <sub>10</sub> H <sub>14</sub> O <sub>4</sub>	O-Isopropyl S-phenyl methylphosphonodithionate, Z'3.22
<i>trans</i> -Chrysanthemic acid, A35.11	C <sub>10</sub> H <sub>15</sub> O <sub>2</sub> PS
2-Methoxymethyl-3-oxocyclopentene-1-acetic acid, Y'8	O-Isopropyl S-phenyl methylphosphonothiate, Z'3.19
Bicyclo[2.2.2]octane-2,3-dicarboxylic acid, A'23.5	C <sub>10</sub> H <sub>15</sub> P
Isolinecic acid dilactone, K'8.5	Methylphenylpropylphosphine, Z5.12
3-Methylcyclohex-4-ene-1,2-dicarboxylic acid methyl ester, Y'8	C <sub>10</sub> H <sub>15</sub> PS
Bicyclo[2.2.2]octane-2,5-dicarboxylic acid, X'10.2	Methylphenylpropylphosphine sulphide, Z5.6
C <sub>10</sub> H <sub>14</sub> O <sub>5</sub>	C <sub>10</sub> H <sub>15</sub> PSe
Hygrophyllinecic acid monolactone, K23.2	Methylphenylpropylphosphine selenoxide, Z5.16
	C <sub>10</sub> H <sub>16</sub>
	Achillene, T1.11
	Sylvestrene, T6.9

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{10}H_{16}$  continued
- Twistane, X'10.5
  - Isosylvestrene, T6.8
  - Sabinene, T7.13
  - m*-Mentha-1(7),8-diene, T6.7
  - $\alpha$ -Fenchene, T10.12
  - $\alpha$ -Phellandrene, T2.12
  - $\beta$ -Phellandrene, T2.13
  - Limonene, T2.7
  - 1,8-Iridadiene, T3.1
  - $\alpha$ -Hymentherene, T1.5
  - $\beta$ -Hymentherene, T1.8
  - $\alpha$ -Pinene, T8.4
  - $\beta$ -Pinene, T8.5
  - Bicyclo-[7.1.0]-decane, X2.3
  - Camphe, T11.9
  - Car-2-ene, T6.1
  - Car-3-ene, A35.4
  - Cis*-Car-4-ene, T6.13
  - trans*-Car-4-ene, T6.14
  - 3-Methyl-4-*trans*-propenylcyclohexenes, A'24.5
  - 1,2-Dipropenylcyclobutanes, A'31.13
  - 3-Vinylcyclooctene, A'32.14
- $C_{10}H_{16}BF_4NOS$
- (Dimethylamino)methyl *p*-tolyl oxosulphonium fluoroborate, Z'6.14
- $C_{10}H_{16}BrNO_2$
- 2-Bromo-2-nitrofenchane, T10.2
- $C_{10}H_{16}KNO_2S$
- Sinigrin, C3.10
- $C_{10}H_{16}NOPS$
- O*-Ethyl ethylphosphinothioanilidate, Z'3.6
- $C_{10}H_{16}NO_2S$
- O*-Ethyl ethylphosphonoanilidate, Z'3.1
- $C_{10}H_{16}N_2$
- 3,4-Diethyladipic acid dinitrile, A45.1
- $C_{10}H_{16}N_2O_2$
- Lepistine, K'7.12
- $C_{10}H_{16}N_2O_3S$
- Biotin, Y30.1
- $C_{10}H_{16}N_5O_4$
- Formycin, C3.7
- $C_{10}H_{16}O$
- trans*-Carveol, T5.4
  - trans*-Pinocarveol, T9.6
  - Dihydrocarvone, T5.4
  - Thujone, T7.7
  - Thujan-2-one, T7.1
  - Isothujone, T7.5
  - trans*-Caran-2-one, T6.6
  - trans*-Car-4-ene-3-ol, T6.15
  - Sabinol, T7.9
  - Camphor, T11.7
  - Pinocamphone, T9.13
  - Isopinocamphone, T9.9
  - Epicamphor, T12.11
- Myrtenol, T9.7
- Pulegone, A38.1
- 2-Methyl-4-isopropenylcyclohexanone, T9.4
- Fenchone, T10.6
- Isofenchone, T10.11
- Piperitone, T2.14
- Carvotanacetone, T2.8
- 8-Methyl-perhydroindan-1-ones, A53.3, A'38.16
- 8-Methyl-perhydroindan-2-one, A53.7
- 8-Methyl-perhydroindan-5-ones, A53.12, A38'14
- 1-Decalones, A39.2, A39.5
- $\alpha$ -Cyclocitral, T54.5
- Verbenols, T8.8, T8.10
- Perillyl alcohol, T8.12
- Matatabiether, T14.3
- 2-Decalone, A54.4
- cis*-Verbanone, T8.13
- Ipsdienol, A'11.13
- 2-Acetyl bicyclo[2.2.2]octane, A'23.17
- Nojigiku alcohol, A'33.13
- 5,6,6-Trimethylbicyclo[2.2.1]heptan-2-one, A'33.14
- 6-Methyl-6-propylbicyclo[3.1.0]hexan-2-ones, A'37.14, A'37.15
- 4-Isopropyl-4-methylcyclohex-2-en-1-one, A'39.9
- 4-Methyl-4-propylcyclohex-2-en-1-one, A'39.14
- trans*-Verbanone, T2.3
- 2-Formyl-3-isopropyl-1-methylcyclopentene, T'5.1
- cis*-Carveol, T'5.7
- 6-Methylspiro[4.4]nonan-1-ones, X'3.6
- $C_{10}H_{16}O_2$
- Pyrocin, A35.5
  - 3-Acetoxyoctocetene, X2.5
  - $\alpha$ -Fencholenic acid, T10.5
  - Iridomyrmecine, T13.12
  - Isoiridomyrmecine, T13.15
  - 2-Methylnona-2,3-dienoic acid, X1.9
  - Iridodial, T13.13
  - trans*-Pulegenic acid, A38.2
  - Piperitone oxide, T4.2
  - cis*-Chrysanthemic acid, A35.10
  - trans*-Chrysanthemic acid, A35.6
  - 2,6,6-Trimethyl-2-vinyltetrahydropyran-5-one, T3.11
  - 1,5,5-Trimethylbicyclo-[2.1.1]-hexane-6-carboxylic acids, T12.4
  - Dihydronepetalactone, T14.5
  - Isodihydronepetalactone, T14.4
  - 10-Hydroxy-2-decalones, A54.3, A54.5
  - Dispiro[4.0.4.1]11-oxaundecan-1-ol, X'3.11
  - 6-Hydroxyspiro[4.5]decan-1-one, X'3.4
  - 4-Hydroxy-1-decalone, A'34.5
  - 5-Hydroxy-1-decalones, A'34.9, A'34.10
  - 5-Hydroxy-8-methylhexahydroindan-1-one, A'38.11

1-Hydroxy-8-methylperhydroindan-5-one, <b>A'38.12</b>	$C_{10}H_{18}$
3-Hydroxy- $\beta$ -cyclocitral, <b>T'18.3</b>	Pinanes, <b>T8.2, T8.6</b>
$C_{10}H_{16}O_3$	Thujanes, <b>T7.14, T7.19</b>
$\alpha$ -Nepetalic acid, <b>T14.12</b>	<i>Cis</i> -Carane, <b>T6.4</b>
$\delta$ -Nepetalic acid, <b>T14.14</b>	<i>trans</i> -Carane, <b>T6.5</b>
Homoterpenyl methyl ketone, <b>T2.2</b>	Fenchane, <b>T10.9</b>
2-Acetoxy-2-cyclohexylacetic acid, <b>A'19.10</b>	Dimethylocta-2,7diene, <b>T1.2</b>
2,2,3-Trimethyl-4-oxocyclohexanecarboxylic acids, <b>A'21.15</b>	1,3-Dimethyl-3-isopropylcyclopentene, <b>T7.16</b>
2-Oxocyclohexaneacetic acid ethyl ester, <b>A'32.4</b>	<i>p</i> -Menth-3-ene, <b>T4.11</b>
2-Oxocyclohexanepropionic acid methyl ester, <b>A'32.3</b>	<i>p</i> -Menth-2-ene, <b>T4.7</b>
$C_{10}H_{16}O_4$	Bicyclo-[7.1.0]-decane, <b>X2.3</b>
Homothujadicarboxylic acid, <b>T7.4</b>	3,3-Dimethyl-1-vinylcyclohexane, <b>A'20.10</b>
Dihydrosenecic acid lactone, <b>K23.4</b>	1-Isopropyl-3-methylcyclohexene, <b>A'24.2</b>
Tetrahydroseneciphyllic acid lactone, <b>K23.6</b>	2-Isopropyl-4-methylcyclohexene, <b>A'24.9</b>
$\alpha$ -Nepetalinic acid, <b>T13.16</b>	3-Ethylcyclooctene, <b>A'32.15</b>
$\beta$ -Nepetalinic acid, <b>T14.13</b>	$C_{10}H_{18}N_2O_2$
$\gamma$ -Nepetalinic acid, <b>T14.11</b>	Slaframine, <b>K'5.11</b>
$\delta$ -Nepetalinic acid, <b>T13.14</b>	$C_{10}H_{18}N_2O_3$
<i>cis</i> -Camphoric acid, <b>T12.3</b>	Desthiobiotin, <b>Y30.2</b>
2-Methoxymethylcyclopent-4-ene-3-ol-1-acetic acid, <b>Y16.11</b>	Antibiotic LL-BH-872a, <b>Y30.5</b>
2-Carboxy-2-methylcyclohexaneacetic acids, <b>A53.11, A53.14</b>	$C_{10}H_{18}O$
Cyclohexane-1,2-diacetic acid, <b>A37.9</b>	Dihydrocarveol, <b>T5.11</b>
<i>trans,trans</i> -Nepetalinic acids, <b>T'4.2, T'4.4</b>	Linalool, <b>T3.8</b>
3-Acetyl-6-oxoheptanoic acid methyl ester, <b>T'10.2</b>	Pinocampheol, <b>T9.14</b>
$C_{10}H_{16}O_4S$	Isopinocampheol, <b>T9.5</b>
Camphor-8-sulphonic acid, <b>T11.1</b>	Neopinocampheol, <b>T9.12</b>
Camphor-10-sulphonic acid, <b>T12.2</b>	Neoisopinocampheol, <b>T9.10</b>
$C_{10}H_{16}O_5$	<i>cis</i> -Myrtanol, <b>T9.8</b>
Senecic acid, <b>K23.1</b>	<i>p</i> -Menth-1-en-9-ol, <b>T2.3</b>
Intergerrinecic acid, <b>K23.1</b>	$\alpha$ -Fenchyl alcohol, <b>T10.3</b>
Peroxycamphoric acid, <b>K'10.1</b>	$\beta$ -Fenchyl alcohol, <b>T10.8</b>
$C_{10}H_{16}O_6$	$\beta$ -Isofenchyl alcohol, <b>T10.13</b>
Hydrophyllenic acid, <b>K23.2</b>	$\alpha$ -Isofenchyl alcohol, <b>T10.14</b>
Jaconecic acid, <b>K22.1</b>	<i>cis</i> -Carvotanacetol, <b>T2.5</b>
$C_{10}H_{17}Cl$	Lavandulol, <b>T2.11</b>
Bornyl chloride, <b>T11.12</b>	Cyclolavandulol, <b>T2.10</b>
$C_{10}H_{17}N$	$\alpha$ -Terpineol, <b>T2.4</b>
(1,2,2-Trimethylpropyl)pyrrole, <b>A'4.14</b>	Menthone, <b>T1.1</b>
$C_{10}H_{17}NO$	Isomenthone, <b>T4.8</b>
Hexahydro(2H)quinazolin-1(6H)-one, <b>A'17.15</b>	Carvomenthone, <b>T5.9</b>
2-Dimethylamino-3-phenylpropan-1-ol, <b>A5.13</b>	Isocarvomenthone, <b>T5.10</b>
$C_{10}H_{17}NO_3$	<i>cis</i> -Piperitol, <b>T4.1</b>
Ecgonine methyl ester, <b>K28.6</b>	<i>trans</i> -Piperitol, <b>T4.5</b>
Pseudoecgonine methyl ester, <b>K28.9</b>	Epiborneol, <b>T12.15</b>
3-Acetoxy-6-hydroxytroppane, <b>K28.3</b>	Epi-isoborneol, <b>T12.15</b>
$C_{10}H_{17}NO_4$	Pinan-2-ols, <b>T8.1, T8.7</b>
6-Methoxycarbonylpiperidine-2-acetic acid methyl ester, <b>K20.12</b>	Myrtanol, <b>T8.3</b>
	Citronellal, <b>T1.4</b>
	Cyclogeraniol, <b>T54.5</b>
	Thujyl alcohol, <b>T7.11</b>
	Neothujyl alcohol, <b>T7.12</b>
	Isothujyl alcohol, <b>T7.8</b>
	Neoisothujyl alcohol, <b>T7.6</b>
	1-Hydroxydecalin, <b>A39.1</b>

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- 2-*tert*-Butylcyclohexanone, A39.18**
- 2,5-Dimethyl-5-ethylcyclohexanone, A55.9**
- Neodihydrocarveol, T5.2**
- Borneol, T11.8**
- Isoborneol, T11.3**
- Carquejanone, T16.12**
- Plinols, T3.2, T3.3, T3.4, T3.7**
- Ipsenol, A'4.9**
- Manicone, A'16.6**
- 3-(2-Hydroxyethyl)cyclooctene, A'32.13**
- 1-Decalol, A'34.6**
- 2-Ethyl-2,5-dimethylcyclohexanone, A'38.1**
- 8-Methylhexahydroindan-1-ols, A'38.13**
- Rose oxide, T'1.8**
- Neoverbanol, T'2.2**
- Grandisol, T'2.11**
- Sabina hydrate, T7.18**
- 4-Isopropyl-4-methyl-2-methylenecyclopentanol, T7.10**
- C<sub>10</sub>H<sub>18</sub>O<sub>2</sub>**
- Neomatabiol, T14.1
- Isomatabiol, T14.1
- Fencholic acid, T10.7
- 1,2,2,3-Tetramethylcyclopentanecarboxylic acid, A36.20
- 6-Oxo-3-isopropylheptanal, T48.1
- Decalin-2,10-diols, A54.1, A54.2
- 3,3-Dimethyl-1-acetoxy cyclohexane, A'20.1
- Cyclooct-1-ene-3-acetic acid, A'32.10
- Decalin-1,4-diol, A'34.3
- Decalin-1,5-diol, A'34.8
- Lilac alcohols, T'1.6
- 2,3-Dimethylisobenzofuran-4-ol, Y'9.6
- C<sub>10</sub>H<sub>18</sub>O<sub>3</sub>**
- Cinenic acid methyl ester, T3.10
- trans-trans*-Puleganolic acid, T15.1
- 3-Ethyl-3-methyl-6-oxoheptanoic acid, A55.10
- 2-Isopropyl-2-methyl-5-oxohexanoic acid, A55.3
- C<sub>10</sub>H<sub>18</sub>O<sub>4</sub>**
- 3,4-Diethyladipic acid, A45.1
- 3,6-Dimethyloctane-1,8-dioic acid, A32.6
- 2-Hexylsuccinic acid, A28.9
- 2-Ethyl-2-methylglutaric acid dimethyl ester, A'36.10
- C<sub>10</sub>H<sub>18</sub>O<sub>6</sub>**
- Trichodesmic acid, K23.9
- Isolinecic acid, K'8.5
- C<sub>10</sub>H<sub>19</sub>Cl**
- Menthyl chloride, T4.13
- C<sub>10</sub>H<sub>19</sub>N**
- Dendroprimine, K'5.8
- C<sub>10</sub>H<sub>19</sub>NO**
- Lupinine, K21.1
- C<sub>10</sub>H<sub>19</sub>NO<sub>3</sub>**
- 2,3-Diethylsuccinic acid monodimethylamide, A45.9
- C<sub>10</sub>H<sub>19</sub>NOS<sub>2</sub>**
- Hirsutin, Z8.8
- C<sub>10</sub>H<sub>20</sub>**
- cis-m*-Menthane, T6.10
- trans-m*-Menthane, T6.11
- 2-Cyclohexylbutane, A59.1
- C<sub>10</sub>H<sub>20</sub>N<sub>2</sub>**
- 1-(Aminomethyl)-quinolizidine, K21.2
- 2',3-Dipiperidyl, K18.6
- C<sub>10</sub>H<sub>20</sub>N<sub>2</sub>O**
- 1-Cyclohexylazoxyethane, A'8.6
- C<sub>10</sub>H<sub>20</sub>O**
- 1-Cyclohexylbutan-1-ol, A58.1
- m*-Menthyl-1-ol, T6.12
- Menthol, A26.12
- Neomenthol, T4.4
- Isomenthol, T4.6
- Neoisomenthol, T4.12
- Carvomenthol, T5.13
- Isocarvomenthol, T5.7
- Neocarvomenthol, T5.1
- Neoisocarvomenthol, T5.14
- 5-Ethyl-6-methylheptan-2-one, T48.3
- 2-*tert*-Butylcyclohexanols, A39.17, A39.14
- Santolina alcohol, T17.9
- 1-(3,3-Dimethylcyclohexyl)ethanol, A'20.6
- 2,6,6-Trimethylcycloheptanols, A'20.13, A'20.14
- 3-Ethylcyclooctanol, A'32.16
- 2-Ethylcyclooctanol, A'32.12
- Isopulegol, T'1.7
- Neoisopulegol, T'1.11
- C<sub>10</sub>H<sub>20</sub>O<sub>2</sub>**
- 2-Methylnonanoic acid, A61.7
- 2-Ethyloctanoic acid, A61.1
- 4-Methylnonanoic acid, A61.8
- 5-Methylnonanoic acid, A61.9
- 6-Oxo-3-isopropylheptanal, T48.2
- 3-Ethyloctanoic acid, A'26.6
- C<sub>10</sub>H<sub>20</sub>O<sub>3</sub>**
- 2-Hydroxydecanoic acid, A1.24
- 2-Hydroxy-2-ethyl-6-methylheptanoic acid, T3.6
- 3-Butyl-3-methoxypentanoic acid, A'26.7
- C<sub>10</sub>H<sub>20</sub>O<sub>5</sub>**
- Nogalose, C3.12
- C<sub>10</sub>H<sub>21</sub>Br**
- 1-Bromo-4-methylnonane, A62.11
- 1-Bromo-5-methylnonane, A62.12
- C<sub>10</sub>H<sub>21</sub>N**
- Menthylamine, T4.10
- Isomenthylamine, T4.9
- Neomenthylamine, T4.14
- Neoisomenthylamine, T4.15
- C<sub>10</sub>H<sub>21</sub>OP**
- Cyclohexylmethylpropylphosphine oxide, Z5.19
- C<sub>10</sub>H<sub>22</sub>**
- 3-Methylnonane, A27.12

## Formulae Index

---

$C_{10}H_{22}O$	4-Methylnonane, <b>A59.9</b>	$C_{11}H_{11}F_3O_3$	3-Hydroxy-3-phenyl-4,4,4-trifluorobutyric acid methyl ester, <b>A'28.12</b>
	4-Methylnonan-1-ol, <b>A60.8</b>	$C_{11}H_{11}NO$	3-Benzamidobut-1-yne, <b>A'14.3</b>
	5-Methylnonan-1-ol, <b>A60.9</b>	$C_{11}H_{11}NO_2$	2-(3-Indolyl)-propionic acid, <b>A48.4</b>
	2-Methylnonan-5-ol, <b>A58.16</b>		2-Cyano-2-methyl-3-phenylpropionic acid, <b>A'36.3</b>
	Decan-3-ol, <b>A58.7</b>		2-Cyano-2-phenylbutyric acid, <b>A'39.17</b>
	Decan-4-ol, <b>A58.8</b>		3-Cyano-3-phenylbutyric acid, <b>A'39.18</b>
	Decan-5-ol, <b>A58.9</b>		2-Methyl-2-phenylsuccinimide, <b>A'39.19</b>
	Tetrahydrolinalool, <b>T3.5</b>	$C_{11}H_{11}NO_3$	5-Methyl-2-phenyl-2-oxazoline-4-carboxylic acids, <b>A24.3, A24.5</b>
	Tetrahydrosantolina alcohol, <b>T17.7</b>	$C_{11}H_{11}NO_3$	<i>N</i> -Benzoylaspartic acid, <b>A4.6</b>
	2-Isopropyl-5-methylhexanol, <b>T'18.11</b>	$C_{11}H_{12}$	Phenylspiro-[2.2]pentane, <b>A44.17</b>
$C_{10}H_{22}S$	Bis(2-methylbutyl)sulphide, <b>A'16.1</b>		3-Phenylcyclopentene, <b>A'30.4</b>
$C_{10}H_{23}N$	1-Amino-5-methylnonane, <b>A60.17</b>	$C_{11}H_{12}Cl_2N_2O_5$	Chloramphenicol, <b>A21.8</b>
		$C_{11}H_{12}N_2O_2$	Tryptophan, <b>A20.12</b>
		$C_{11}H_{12}N_2O_3$	2-Hydroxytryptophan, <b>A20.8</b>
			5-Hydroxytryptophan, <b>A20.13</b>
		$C_{11}H_{12}N_2S$	Tetramisole, <b>Y30.7</b>
		$C_{11}H_{12}O$	3-Methyl-1-tetralone, <b>A43.23</b>
			2-Methyl-1-tetralone, <b>A25.4, A43.14</b>
			4-Methyl-1-tetralone, <b>A49.13</b>
			1-Acetylindane, <b>A50.16</b>
			3-Ethylindan-1-one, <b>A42.4</b>
			2-Phenylcyclopentanone, <b>A'30.2</b>
			3,7-Dimethylindan-1-one, <b>T'7.12</b>
		$C_{11}H_{12}O_2$	Tetralin-1-carboxylic acid, <b>A25.12</b>
			2-Phenylpent-4-enoic acid, <b>A50.8</b>
			3-Phenyl-5-hydroxypentanoic acid lactone, <b>A'26.8</b>
			3-Ethyl-3,4-dihydrocoumarin, <b>A'26.14</b>
		$C_{11}H_{12}O_3$	5-Methylmellein, <b>Y2.2</b>
			Benzylsuccinic acid, <b>A28.19</b>
			3-p-Carboxyphenylbutyric acid, <b>A49.7</b>
			2-Phenylglutaric acid, <b>A50.10</b>
			Adamantane-4,8-dione-2-carboxylic acid, <b>A'33.6</b>
			2-Methyl-2-phenylsuccinic acid, <b>A'40.12</b>
		$C_{11}H_{12}O_4$	<i>p</i> -Methoxyphenylsuccinic acid, <b>Y6.8</b>

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- $C_{11}H_{12}O_6$   
Eucomic acid, A'29.13
- $C_{11}H_{12}O_7$   
Piscidic acid, A30.11
- $C_{11}H_{12}O_8$   
Fukiic acid, A30.11
- $C_{11}H_{13}BrO_2$   
5-Bromo-2-phenylpentanoic acid, A50.9
- $C_{11}H_{13}D$   
[1-<sup>2</sup>H]-2,2-Dimethyl-1-phenylpropane, D'1.1  
[4-<sup>2</sup>H]2-Methyl-4-phenylbut-2-ene, D'1.2
- $C_{11}H_{13}N$   
2-Methyl-2-phenylbutyronitrile, A56.7
- $C_{11}H_{13}NO$   
2-(3-Indolyl)-propan-1-ol, A48.1  
1-Acetamidoindane, A25.1  
3-Methyl-3-phenyl-2-pyrrolidone, A'39.8
- $C_{11}H_{13}NO_2$   
2-Aminotetralin-2-carboxylic acid, A'22.1
- $C_{11}H_{13}NO_4$   
Evoninic acid, A31.3  
2-Hydroxy-2-(2-acetylaminophenyl)-propionic acid, A51.6
- $C_{11}H_{14}$   
1-Methyltetralin, A49.17  
2-Methyltetralin, A43.18  
2-Ethyl-3-phenylbut-1-ene, A'19.2
- $C_{11}H_{14}N_2O$   
Cytisine, K21.4
- $C_{11}H_{14}N_4O_4$   
Tubercidin, C'1.10
- $C_{11}H_{14}O$   
2-Methyl-2-phenylbutanal, A56.1  
10-Methyl- $\Delta^3,6$ -2-hexalone, A53.9  
2-Benzoylbutane, A29.12  
2-Methyl-1-tetralol, A43.17  
1-Methyl-1-tetralol, A25.2  
4-Phenylpentan-2-one, A41.19  
2-Phenylcyclopentanols, A'30.1, A'30.3
- $C_{11}H_{14}O_2$   
2-Methyl-2-phenylbutyric acid, A56.7  
2-Methyl-4-phenylbutyric acid, A32.15  
3-Methyl-4-phenylbutyric acid, A43.22  
3-Methyl-2-phenylbutyric acid, A41.7  
3-p-Tolybutyric acid, A49.7  
2-Phenylpentanoic acid, A41.14  
3-Phenylpentanoic acid, A42.10  
4-Phenylpentanoic acid, A49.9  
Pyrethrone, T17.4  
Isopyrethrone, T17.2  
2-Hydroxy-2-phenylpentan-3-one, A51.5  
9-Methyl- $\Delta^{5(10)}$ -octalin-1,6-dione, A'38.10
- $C_{11}H_{14}O_3$   
2-Hydroxy-3-methyl-2-phenylbutyric acid, A51.1  
Adamantan-4-one-2-carboxylic acids, A'33.1, A'33.9
- 2-(*p*-Methoxyphenyl)-butyric acid, Y4.7  
3-Hydroxy-3-phenylpentanoic acid, A51.17  
4-Methoxy-4-phenylbutyric acid, A21.18  
2-Hydroxy-2-methyl-3-phenylpropionic acid, methyl ester, A'11.4
- $C_{11}H_{14}O_4$   
Panepoxydon, Y19.3  
Genipin, T13.3
- $C_{11}H_{14}O_6$   
Elenolic acid, T'1.10
- $C_{11}H_{15}N$   
1-Dimethylaminoindane, A25.17  
3-Methyl-3-phenylpyrrolidine, A'39.3  
1-Methyl-2-phenylpyrrolidine, A'9.9  
2-Phenylpiperidine, A'10.13
- $C_{11}H_{15}NO$   
2-Methyl-2-phenylbutyramide, A56.7  
1-Benzoyl-1-dimethylaminoethane, A4.10  
Ketone from albene, T11.14  
6-Amino-6,7,8,9-tetrahydro[5H]benzocyclohepten-5-ols, A'10.5
- $C_{11}H_{15}NO_2$   
2-Dimethylamino-2-phenylpropionic acid, A40.10
- $C_{11}H_{15}N_3O_6$   
Erythropentulose *o*-nitrophenylhydrazone, C2.6
- $C_{11}H_{15}N_5O_3$   
Aristeromycin, Y21.4
- $C_{11}H_{16}$   
2-Phenylpentane, A50.5  
2-Methyl-1-phenylbutane, A27.9  
2-Methyl-3-phenylbutane, A41.6  
Dictyopterene B, Y'7.7  
Dictyopterene D', Y'7.8
- $C_{11}H_{16}N_2$   
3'-Methylnicotine, K20.2
- $C_{11}H_{16}N_2O_2$   
Pilocarpine, K'10.6  
Isopilocarpine, K'10.8
- $C_{11}H_{16}N_4O_5$   
Coformycin, Y'14.5
- $C_{11}H_{16}O$   
2-Methyl-2-phenylbutan-1-ol, A56.3  
1-Phenylpentan-1-ol, A'19.8  
2-Phenylpentan-1-ol, A50.4  
3-Phenylpentan-1-ol, A62.22  
4-Phenylpentan-1-ol, A62.23  
3-Phenylpentan-2-ols, A48.9, A48.13  
1-Phenylpentan-3-ol, A58.25  
2-Phenylpentan-3-ols, A48.6, A48.14  
9-Methyl- $\Delta^2$ -1-octalone, A53.4  
9-Methyl- $\Delta^4$ -3-octalone, A54.7  
10-Methyl- $\Delta^3$ -2-octalone, A54.6  
10-Methyl- $\Delta^8$ -1-octalone, A54.9  
10-Methyl- $\Delta^6$ -2-octalone, A53.13  
2,2-Dimethyl-1-phenylpropan-1-ol, A'19.19

## Formulae Index

---

$C_{11}H_{16}$	2-Methyl-1-phenylbutan-2-ol, <b>A'28.6</b>	$C_{11}H_{17}P$	<i>tert</i> -Butylmethylphenylphosphine, <b>Z4.4</b>
	2-Phenylpentan-2-ol, <b>A'30.12</b>	$C_{11}H_{18}$	Dictyopterene A, <b>A44.3</b>
	Spiro(cyclobutan-2-one)1,7'-(2'-exomethylnorbornane), <b>A'33.12</b>		Dictyopterene C, <b>Y'7.9</b>
	4-Butylcycloheptadienone, <b>Y'7.10</b>		Methyl isopulegene, <b>A39.16</b>
	1-Phenyl-3-methylbutan-1-ol, <b>A'19.8</b>	$C_{11}H_{18}N_2O_3S$	
$C_{11}H_{16}OS$			Cephalothin precursor, <b>Y29.5</b>
	Butyl <i>p</i> -tolyl sulphoxides, <b>Z7.6</b>	$C_{11}H_{18}O$	
	Benzyl butyl sulphoxide, <b>Z'5.6</b>		Homocamphor, <b>T27.6</b>
	Benzyl <i>tert</i> -butyl sulphoxide, <b>Z'5.6</b>		9-Methyl-1-decalone, <b>A53.16</b>
$C_{11}H_{16}OS_2$			10-Methyl-1-decalones, <b>A54.10, A54.11</b>
	<i>tert</i> -Butyl thiosulphinate, <b>Z'6.12</b>		10-Methyl-2-decalones, <b>A53.10, A54.8</b>
$C_{11}H_{16}O_2$			6-Isopropyl-3,6-dimethylcyclohex-2-en-1-one, <b>A'38.3</b>
	9-Methyldecalin-1,2-dione, <b>A53.1</b>		Myodesertin, <b>T'4.3</b>
	3-Phenylhexanoic acid, <b>A'26.2</b>	$C_{11}H_{18}OSi$	
	5-Hydroxy-10-methyl- $\Delta^{1(9)}$ -2-octalones, <b>A'38.8</b>		Isopropylmethoxymethylphenylsilane, <b>Z'1.18</b>
	Dihydroactinidiolide, <b>T'18.7</b>	$C_{11}H_{18}O_2$	
	3-Phenylpentane-1,3-diol, <b>A51.18</b>		<i>cis</i> -Homochrysanthemic acid, <b>A35.9</b>
	2-Phenylpentane-1,5-diol <b>A50.6</b>		<i>trans</i> -Homochrysanthemic acid, <b>A35.2</b>
$C_{11}H_{16}O_3$			Tetrahydroactinidiolide, <b>T54.2</b>
	3-(3,5-Dihydroxy-2-methylphenyl)-butan-2-ol, <b>Y13.9</b>		Nordavanone, <b>T'1.5</b>
	Loliolide, <b>T'18.5</b>		Methyl santolinate, <b>T'3.4</b>
	Isololiolide, <b>T'18.5</b>	$C_{11}H_{18}O_3$	
$C_{11}H_{16}O_4$			2-Acetoxy-2-cyclohexylacetic acid methyl ester, <b>A'19.10</b>
	Pyrethic acid, <b>A35.11</b>	$C_{11}H_{18}O_4$	
	3-Methylcyclohex-3-ene-1,2-diacetic acid, <b>Y'8.12</b>		1-Methylcyclohexane-1,2-diacetic acid, <b>A53.6</b>
$C_{11}H_{16}O_5$			2-Carboxy-2-methylcyclohexanepropionic acids, <b>A53.2, A53.17</b>
	1-Methyl-4-oxocyclohexane-1,2-diacetic acid, <b>Y'9.14</b>		2-Cyclohexyl-2-methylsuccinic acid, <b>A'40.11</b>
$C_{11}H_{16}O_7$			LL-P880 $\alpha$ , <b>Y'2.7</b>
	Dihydrioptosidin, <b>Y'2.4</b>	$C_{11}H_{18}O_5$	
$C_{11}H_{16}O_8$			LL-P880 $\beta$ , <b>Y'4.4</b>
	Ranunculin, <b>A'12.7</b>		3-Carboxy-3-hydroxy-4-cyclohexylbutyric acid, <b>A'11.5</b>
$C_{11}H_{16}S$		$C_{11}H_{19}NO_2$	
	Methyl(2-phenylbutyl)sulphide, <b>A'20.3</b>		8-Amino-3-methoxy-2,4-dimethylocta-4,6-dienal, <b>A'18.9</b>
$C_{11}H_{17}DO$		$C_{11}H_{20}$	
	[1- <sup>2</sup> H]-1-(1-Adamantyl)ethanol, <b>D1.3</b>		1-Isopropylidene-2,4-dimethylcyclohexanone, <b>A39.13</b>
$C_{11}H_{17}N$			2,2,6,6-Tetramethylhepta-3,4-diene, <b>X'1.9</b>
	2-Amino-2-methyl-3-phenylbutane, <b>A'19.1</b>	$C_{11}H_{20}N_2O_4$	
	1-Amino-2,2-dimethyl-1-phenylpropane, <b>A'8.5</b>		1-Hydroxy-2-(valylamido)cyclobutaneacetic acid, <b>A'31.4</b>
$C_{11}H_{17}NO$		$C_{11}H_{20}O$	
	Tecomamine, <b>K31.9</b>		<i>sec</i> -Butyl cyclohexyl ketone, <b>A29.12</b>
	2-Dimethylamino-1-phenylpropan-1-ol, <b>A21.10</b>		2- <i>tert</i> -Butyl-5-methylcyclohexanone, <b>A39.19</b>
	Prenylamine, <b>A'17.3</b>		2,2,6,6-Tetramethylhept-4-yn-3-ol, <b>A'5.15</b>
$C_{11}H_{17}NO_2$			4- <i>tert</i> -Butyl-2-methylcyclohexanones, <b>A'21.2, A'21.3</b>
	2-Amino-1-(3,4-dimethoxyphenyl)-propane, <b>A5.6</b>		Dihydromethylisopulegone, <b>A'38.2</b>
$C_{11}H_{17}NOS$			
	<i>N</i> -Methyl- <i>N</i> -(3-methylsulphinyl)-propylaniline, <b>Z8.4</b>		
	<i>N,N</i> -Diethyl <i>p</i> -toluenesulphinamide, <b>Z'6.9</b>		
$C_{11}H_{17}OP$			
	<i>tert</i> -Butylmethylphenylphosphine oxide, <b>Z4.3</b>		

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- C<sub>11</sub>H<sub>20</sub>O<sub>2</sub>**  
*p*-Menthane-3-carboxylic acid, **T5.16**  
 2-Cyclohexyl-2-methylbutyric acid, **A56.8**  
 3-Cyclohexylpentanoic acid, **A42.11**  
 2-Methyl-5-isopropylcyclopentanecarboxylic acid, methyl ester, **T15.2**  
 4,8-Dimethyl-4-hydroxy nonanoic acid lactone, **Y9.6**  
 2,2,6-Trimethyloctane-2,5-dione, **A'26.9**  
 3,7-Dimethylnonane-4,6-dione, **A'26.10**  
 9-Methyldecalin-1,10-diols, **A'38.9**
- C<sub>11</sub>H<sub>20</sub>O<sub>3</sub>**  
 3,4-Bis-(hydroxymethyl)-4-methylcyclohexanone, **T40.2**
- C<sub>11</sub>H<sub>20</sub>O<sub>5</sub>**  
 4-Methoxysuberic acid dimethyl ester, **A'7.14**
- C<sub>11</sub>H<sub>21</sub>BrO<sub>2</sub>**  
 5-Bromo-3,4-diethylpentanoic acid, ethyl ester, **A45.7**
- C<sub>11</sub>H<sub>21</sub>IN**  
 Dendroprimine methiodide, **K'5.8**
- C<sub>11</sub>H<sub>21</sub>N**  
 Skyanthines, **T14.15, T14.16, T14.17, T14.18**
- C<sub>11</sub>H<sub>21</sub>NO**  
 Alkaloid C, **K31.10**
- C<sub>11</sub>H<sub>21</sub>NOS<sub>2</sub>**  
 Arabin, **Z8.8**
- C<sub>11</sub>H<sub>21</sub>NO<sub>3</sub>**  
 Methyl dihydropalustramine, **K'6.10**
- C<sub>11</sub>H<sub>22</sub>**  
 4-Methyldec-1-ene, **A27.8**  
 1-Cyclohexyl-2-methylbutane, **A59.2**
- C<sub>11</sub>H<sub>22</sub>O**  
 1-Cyclohexylpentan-1-ol, **A58.4**  
 1-Cyclohexylpentan-3-ol, **A58.5**  
 4,8-Dimethylnonanal, **T46.1**  
 4-*tert*-Butyl-2-methylcyclohexanols, **A'21.1, A'21.4**
- C<sub>11</sub>H<sub>22</sub>O<sub>2</sub>**  
 2-Methyldecanoic acid, **A34.6**  
 5-Methyldecanoic acid, **A61.2**  
 2-Ethyl-2,6-dimethylheptanoic acid, **A'36.12**
- C<sub>11</sub>H<sub>22</sub>O<sub>2</sub>S**  
 Menthyl methanesulphonate, **Z7.10**
- C<sub>11</sub>H<sub>23</sub>Br**  
 1-Bromo-5-methyldecane, **A62.3**
- C<sub>11</sub>H<sub>23</sub>N**  
 2-Dimethylaminononane, **K19.10**  
 1-Methyl-2-(2-methylpentyl)pyrrolidine, **K'5.5**
- C<sub>11</sub>H<sub>23</sub>NO<sub>2</sub>**  
 1-(2-Hydroxy-2-methylpropyl)-2-(1-hydroxy-1-methylethyl)pyrrolidine, **K22.2**
- C<sub>11</sub>H<sub>23</sub>O<sub>2</sub>P**  
 Menthyl methylphosphinate, **Z6.4**
- C<sub>11</sub>H<sub>24</sub>**  
 3-Methyldecane, **A59.6**
- C<sub>11</sub>H<sub>24</sub>O**  
 5-Methyldecane, **A59.7**  
 Undecan-3-ol, **A58.26**
- C<sub>11</sub>H<sub>25</sub>N**  
 1-Amino-6-methyldecane, **A60.13**
- C<sub>11</sub>H<sub>25</sub>O<sub>2</sub>P**  
 Isopropyl heptylmethylphosphinate, **Z'3.9**
- C<sub>12</sub>**
- C<sub>12</sub>H<sub>8</sub>MnO<sub>4</sub>**  
 Tricarbonylmanganese cyclopentadienyl deriv., **X9.13**
- C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O**  
 1,2-di(4-pyridyl)oxiran, **A23.8**
- C<sub>12</sub>H<sub>10</sub>O**  
 7,8-Benzobicyclo[2.2.2]-oct-2-ene-6-one, **A47.9**
- C<sub>12</sub>H<sub>10</sub>O<sub>2</sub>**  
 Benznorcaradiene-7-carboxylic acid, **A'35.8**  
 1,6-Methano[10]annulene-2-carboxylic acid, **X'9.6**
- C<sub>12</sub>H<sub>10</sub>O<sub>3</sub>**  
 3,4-Dihydro-6-hydroxy-3-methylisocoumarin-7,8-dicarboxylic acid, **Y2.5**
- C<sub>12</sub>H<sub>11</sub>BrO<sub>2</sub>**  
 3-Bromo-4-ethyl-4-phenylcrotonolactone, **X3.4**
- C<sub>12</sub>H<sub>11</sub>MnO<sub>4</sub>**  
 Tricarbonylmanganese cyclopentadienyl deriv., **X9.16**
- C<sub>12</sub>H<sub>11</sub>NO<sub>2</sub>**  
 1-Cyano-2-phenylcyclopropanecarboxylic acid methyl ester, **A'27.8**
- C<sub>12</sub>H<sub>12</sub>**  
 2-Methylenebenznorbornene, **A46.7**
- C<sub>12</sub>H<sub>12</sub>FeO<sub>2</sub>**  
 3-Methylferrocene-1-carboxylic acid, **X9.10**  
 2-Methylferrocene-1-carboxylic acid, **X9.8**
- C<sub>12</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>**  
 1,2,3,4-Tetrahydro- $\beta$ -carboline-3-carboxylic acid, **A'10.10**
- C<sub>12</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>**  
 N-Methyleudan, **A55.13**
- C<sub>12</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>**  
 1-*p*-Nitrobenzoyl-4-methyl-2-pyrrolidone, **K35.8**
- C<sub>12</sub>H<sub>12</sub>O**  
 5,6-Benzobicyclo-[2.2.2]-octan-2-one, **A47.8**  
 1-(1-Naphthyl)ethanol, **A'13.16**
- C<sub>12</sub>H<sub>12</sub>O<sub>2</sub>**  
 4-Phenylhexa-2,3-dienoic acid, **X3.3**  
 4-Hydroxy-4-phenylhex-2-enoic acid lactone, **A'22.14**
- C<sub>12</sub>H<sub>12</sub>O<sub>3</sub>**  
 2-Methyl-2-phenylglutaric anhydride, **A'39.16**
- C<sub>12</sub>H<sub>12</sub>O<sub>5</sub>**  
 Austdiol, **Y11.8**
- C<sub>12</sub>H<sub>13</sub>BrO**  
 2-(*o*-Bromophenyl)cyclohexanone, **A'21.13**

## Formulae Index

---

$C_{12}H_{13}N$	$C_{12}H_{15}NO$
1-(1-Naphthyl)ethylamine, A'8.4	2-Acetamidotetralin, A20.5
1-Phenyl-1-(1-pyrrolidyl)ethane, A'8.8	1,3-Dimethyl-3-ethyloxindole, A56.18
$C_{12}H_{13}NO_2$	2-Oxo-4-ethyl-4-methyl-1,2,3,4-tetrahydroquinoline, A56.15
3-( <i>N</i> -Methylindolyl)-propionic acid, A48.4	1-Acetyl-2-phenylpyrrolidine, A'30.7
1-Acetyl-5-phenyl-2-pyrrolidone, A'30.5	$C_{12}H_{15}NO_3$
3-Cyano-3-phenylpentanoic acid, A'39.12	<i>N</i> -Benzoylvaline, A10.15
2-Ethyl-2-phenylsuccinimide, A'39.19	Anhalonine, K'2.9
$C_{12}H_{13}NO_3$	$C_{12}H_{15}NO_2S_2$
Allylhippuric acid, A10.16	<i>N</i> -Tosyl-2-thia-5-azabicyclo-[2.2.1]-heptane, A17.13
Indolmycenic acid, Y27.8	$C_{12}H_{15}NO_4$
$C_{12}H_{14}$	2-Amino-2-benzylglutaric acid, A32.16
3-Phenylcyclohex-1-ene, A52.13	$C_{12}H_{16}$
$C_{12}H_{14}BrNO_2$	4-Phenylhex-1-ene, A42.14
2-( <i>o</i> -Bromophenyl)-1-nitrocyclohexanes, A'21.18	$C_{12}H_{16}BrN$
$C_{12}H_{14}FeO$	2-( <i>o</i> -Bromophenyl)cyclohexylamines, A'21.17, A'21.19
1-Ferrocenylethanol, A'14.15	$C_{12}H_{16}F_3N$
$C_{12}H_{14}N_2$	Fenfluramine, A5.5
1,2,3,4-Tetrahydroharman, K16.5	$C_{12}H_{16}O$
$C_{12}H_{14}N_2O_2$	2-Phenylcyclohexanols, A52.7, A52.10
Abrine, A20.12	3-Methyl-1-phenylpentan-2-one, A29.12
$C_{12}H_{14}O$	3-Methyl-3-phenylpentan-2-one, A56.11
3-Ethyl-3-methylindan-1-one, A56.10	4-Phenylhexan-2-one, A42.18
2,2,3-Trimethylindan-1-one, A42.5	1,2-Dimethyl-1-tetralol, A25.6
2-Phenylcyclohexanone, A52.6	4,5-Dimethyl-5,6,7,8-tetrahydronaphthal, T'7.9
1,2-Epoxy-1-phenylcyclohexane, A52.3	$C_{12}H_{16}O_2$
1-Acetyltetralin, A50.18	3-Methyl-3-phenylpentanoic acid, A56.6
3-Phenylcyclohexanone, A'21.10	1-Phenylcyclohexane-1,2-diols, A52.8, A52.9
2-Methyl-2-phenylcyclopentanone, A'40.16	2,2-Dimethyl-3-phenylbutyric acid, A42.6
$C_{12}H_{14}OS$	3,3-Dimethyl-2-phenylbutyric acid, A41.8
(2-Penta-2,3-dienyl) <i>p</i> -tolyl sulphoxide, X'1.6	2-Phenylhexanoic acid, A50.1
$C_{12}H_{14}O_2$	4-Phenylhexanoic acid, A42.15
3-Butylphthalide, Y14.6	5-Phenylhexanoic acid, A'20.12
2-Acetoxy-1,2,3,4-tetrahydronaphthalene, A25.16	3-Methyl-5-phenylpentanoic acid, A61.15
$C_{12}H_{14}O_3S$	4-( <i>p</i> -Tolyl)-pentanoic acid, T16.7
(2-Penta-2,3-dienyl) <i>p</i> -tolyl sulphone, X'1.7	2-Acetoxy-2-phenylbutane, A51.16
$C_{12}H_{14}O_3$	3-Methoxy-9-methyl- $\Delta^{2,6}$ -1-hexalone, A53.8
2-Formyl-2-phenylpropionic acid ethyl ester, A55.13	3-Phenylhexane-1,2-diol, A52.15
$C_{12}H_{14}O_4$	2,3-Dimethyl-2-phenylbutyric acid, A'37.1
Lactic acid, O-benzoyl, ethyl ester, A1.9	2-Methyl-2-phenylpentanoic acid, A'30.9
2-Phenyladipic acid, A52.12	$C_{12}H_{16}O_3$
Dihydrotubaic acid, Y1.7	4-Methoxy-4-phenylbutyric acid, methyl ester, A21.18
2-Methyl-2-phenylglutaric acid, A'39.16	3,3-Dimethyl-2-hydroxy-2-phenylbutyric acid, A51.19
$C_{12}H_{14}O_5$	3-Phenyl-5-methoxypentanoic acid, A'26.7
Hydroxydihydrotubaic acid, Y1.7	3-( <i>o</i> -Methoxyphenyl)pentanoic acid, A'26.11
$C_{12}H_{15}BrO$	Oudenone, Y'5.10
2-( <i>o</i> -Bromophenyl)cyclohexanols, A'21.14	$C_{12}H_{16}O_4$
$C_{12}H_{15}ClO_3$	3-(3,4-Dimethoxyphenyl)-2-methylpropionic acid, A31.22
3-(3,4-Dimethoxyphenyl)-2-methylpropionyl chloride, A31.22	
$C_{12}H_{15}FeN$	
1-Ferrocenylethylamine, A'14.10	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- C<sub>12</sub>H<sub>16</sub>O<sub>4</sub>** continued
- 3-Acetoxy-2-methyl-3-phenylpropionic acid methyl esters **A'29.15, A'29.16**
  - 2-Phenylcyclohexylamines **A52.5, A52.11**
  - 1,3-Dimethyl-3-phenylpyrrolidine, **A'39.3**
- C<sub>12</sub>H<sub>17</sub>NO**
- 2-Acetamido-2-phenylbutane, **A40.8**
  - Phenyl (2-piperidyl) carbinols, **A'17.1**
  - 1-Dimethylamino-2-benzoylpropane, **A'18.6**
- C<sub>12</sub>H<sub>17</sub>NO<sub>2</sub>**
- 2,9-Diacetyl-9-azabicyclo[4.2.1]non-2-ene, **K'7.13**
  - Salsolidine, **K2.3**
- C<sub>12</sub>H<sub>17</sub>NO<sub>3</sub>**
- Lophophorine **K2.1**
  - Calycotomine **K2.3**
- C<sub>12</sub>H<sub>17</sub>N<sub>3</sub>O<sub>9</sub>S<sub>2</sub>**
- Ethylmethylpropylsulphonium trinitrobenzenesulphonate, **Z'8.9**
- C<sub>12</sub>H<sub>18</sub>**
- 3-Phenylhexane, **A42.19**
  - 3-Methyl-1-phenylpentane, **A59.11**
  - 2,2-Dimethyl-3-phenylbutane, **A41.3**
  - Albene, **T11.11**
- C<sub>12</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>**
- Pilocarpine, **K30.2**
  - Isopilocarpine, **K30.3**
- C<sub>12</sub>H<sub>18</sub>O**
- 4-Phenylhexan-1-ol, **A62.20**
  - 5-Phenylhexan-1-ol, **A62.21**
  - 6-Phenylhexan-3-ol, **A58.24**
  - 2-Methyl-3-phenylpentan-2-ol, **A42.13**
  - 3,3-Dimethyl-2-phenylbutan-1-ol, **A41.4**
  - 8,10-Dimethyl- $\Delta^{(10)}$ -2-decalone, **T19.17**
  - Geijerone, **T20.11**
  - 8,9-Dimethyl- $\Delta^{(10)}$ -2-octalone, **T'7.3**
- C<sub>12</sub>H<sub>18</sub>O<sub>2</sub>**
- Cnidilide, **Y14.1**
  - 1,9-Dimethyldecalin-2,6-dione, **T23.15**
  - 5-Methylspiro[5.5]undecan-1,8-dione, **A'24.6**
  - 1-(1-Cyclopentenyl)-2-oxocyclopentaneacetic acid, **A'37.10**
  - 2-Acetoxy- $\beta$ -cyclocitral, **T'17.11**
- C<sub>12</sub>H<sub>18</sub>O<sub>3</sub>**
- Jasmonic acid, **A36.14**
- C<sub>12</sub>H<sub>18</sub>O<sub>5</sub>**
- Bicyclo[2.2.2]octan-5-ol-2,3-dicarboxylic acid dimethyl ester, **A'23.1**
- C<sub>12</sub>H<sub>18</sub>S**
- Ethyl 2-phenylbutyl sulphide, **A'20.3**
- C<sub>12</sub>H<sub>19</sub>N**
- 1-Dimethylamino-3-phenylbutane, **A49.11**
- C<sub>12</sub>H<sub>19</sub>NO<sub>2</sub>**
- Dioscorine, **K29.6**
- C<sub>12</sub>H<sub>19</sub>N<sub>3</sub>O**
- Alchornein, **K'10.11**
  - Isoalchornein **K'10.10**
- C<sub>12</sub>H<sub>20</sub>Cl<sub>6</sub>PSSb**
- Ethylmercaptomethylphenylpropylphosphonium hexachloroantimonate, **Z5.11**
- C<sub>12</sub>H<sub>20</sub>O**
- 7,10-Dimethyl-2-decalone, **T19.12**
- C<sub>12</sub>H<sub>20</sub>O<sub>2</sub>**
- 9-Hydroxy-5,5-dimethyl-2-decalone, **T42.2**
  - 2-Hydroxy-2,6,6-trimethylcyclohexanepropionic acid lactone, **T36.4**
  - $\beta$ -Dihydrosedanolide, **T14.2**
  - 5,9-Dimethyl-10-hydroxy-2-decalone, **T'7.11**
  - Norsolanadione, **T'10.9**
- C<sub>12</sub>H<sub>20</sub>O<sub>3</sub>**
- Butyl 2-carboxycyclohexyl ketones, **Y14.3, Y14.4**
  - 1-Cyclopentyl-2-oxocyclopentaneacetic acid, **A'37.10**
- C<sub>12</sub>H<sub>20</sub>O<sub>4</sub>**
- Drimic acid, **T32.7**
  - 3-Ethyl-4-methylcyclopentane-1,2-dicarboxylic acid dimethyl ester, **Y'13.6**
- C<sub>12</sub>H<sub>20</sub>O<sub>8</sub>**
- Osmundalin, **Y'5.7**
- C<sub>12</sub>H<sub>21</sub>NO**
- 4-Oxo-2,2,8a-trimethyldecahydroquinolin-1-oxyls, **A'29.5, A'29.7**
- C<sub>12</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>S**
- Cephalothin precursor, **Y29.6**
- C<sub>12</sub>H<sub>22</sub>O**
- 4-Cyclohexylhexan-2-one, **A42.3**
  - Geosmin, **T'7.10**
- C<sub>12</sub>H<sub>22</sub>O<sub>2</sub>**
- Cybulol, **T'7.10**
  - 4-*tert*-Butyl-2-methylcyclohexanecarboxylic acid, **A'21.5**
- C<sub>12</sub>H<sub>22</sub>O<sub>4</sub>**
- 2,5-Diethyl-2,5-dimethyladipic acid, **A'36.8**
  - 3-Isopropyl-5-methoxy-6-oxoheptanoic acid methyl ester, **T'5.8**
  - 3-Isopropyl-2-methoxy-6-oxoheptanoic acid methyl ester, **T'10.3**
- C<sub>12</sub>H<sub>22</sub>O<sub>5</sub>**
- 2-Methoxy-4-isopropyladipic acid dimethyl ester, **T'5.10**
- C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>**
- Cellobiose, **C3.9**
  - Trehalose, **C'1.4**
  - Lactose, **C'1.5**
- C<sub>12</sub>H<sub>22</sub>O<sub>12</sub>**
- Lactobionic acid, **C'1.6**
- C<sub>12</sub>H<sub>23</sub>NO**
- 2,2,8a-Trimethyldecahydroquinolin-4-ol, **A'29.1**
- C<sub>12</sub>H<sub>23</sub>NO<sub>2</sub>**
- 4-Hydroxy-2,2,8a-trimethyldecahydroquinolin-1-oxyls, **A'29.5, A'29.7**

$C_{12}H_{23}NO_3$	
2,3-Diethylsuccinic acid monodiethylamide, A45.5	
$C_{12}H_{23}NOS_2$	
Canellinin, Z8.8	
$C_{12}H_{24}$	
1-Cyclohexyl-3-methylpentane, A59.3	
2,2-Dimethyl-3-cyclohexylbutane, A41.2	
$C_{12}H_{24}O$	
6-Cyclohexylhexan-3-ol, A58.3	
$C_{12}H_{24}O_2$	
3-Methylundecanoic acid, A32.2	
$C_{12}H_{24}O_3$	
3-Hydroxydodecanoic acid, A7.5	
<b>C<sub>13</sub></b>	
$C_{13}H_{10}CrO_4$	
(1-Tetralone)-tricarbonylchromium, A25.7	
(5-Methylindan-1-one)tricarbonylchromium, X'2.14	
$C_{13}H_{10}CrO_5$	
(5-Methoxyindan-1-one)tricarbonylchromium, X'2.14	
$C_{13}H_{10}N_2O_4$	
Thalidomide, A9.9	
$C_{13}H_{10}O_2$	
Acenaphthenecarboxylic acid, A'35.4	
$C_{13}H_{11}MnO_4$	
Tricarbonylmanganese cyclopentadienyl derivatives, X9.18, X9.22	
$C_{13}H_{12}Fe$	
1-Ethynyl-2-methylferrocene, X9.2	
$C_{13}H_{12}OS$	
<i>p</i> -Biphenylmethylsulphoxide, Z8.5	
Phenyl <i>p</i> -tolyl sulphoxide, Z7.6	
$C_{13}H_{12}O_2$	
2-(1-naphthyl)-propionic acid, A48.5	
2-(2-Naphthyl)-propionic acid, A48.7	
1,2-Benzocyclohepta-1,3,5-trien-7-acetic acid, A'30.8	
Goniothalamin, Y'3.7	
$C_{13}H_{12}O_3S$	
3-Phenyl-2-(2-thienyl)-propionic acid, A43.10	
2-Phenyl-3-(2-thienyl)-propionic acid, A50.3	
$C_{13}H_{12}O_7$	
3,4-Dihydro-8-methoxy-3-methylisocoumarin-6,7-dicarboxylic acid, Y2.4	
$C_{13}H_{13}BrO_2$	
3-Bromo-4-isopropyl-4-phenylcrotono-lactone, X3.4	
$C_{13}H_{13}BrO_4S$	
2-( <i>p</i> -Bromophenylthiomethyl)-4,5,6-trihydroxycyclohex-2-ene-1-one, A'20.21	
$C_{13}H_{13}ClO_5$	
2-Benzoyloxy-2-methylmalonic acid monocid chloride, ethyl ester, A33.15	
$C_{13}H_{13}NOS$	
<i>N</i> -Phenyl <i>p</i> -toluenesulphinate, Z'6.7	
$C_{13}H_{13}NO_2S$	
<i>N</i> -Methyl- <i>S</i> -phenyl- <i>S</i> -phenoxy-sulphoxime, Z8.16	
$C_{13}H_{14}$	
2-Phenylnorborn-2-ene, A47.1	
2-Methylene-5,6-benzobicyclo-[3.3.2]-octane, A47.7	
2-Phenylcyclobutylidenecyclopropane, A44.16	
$C_{13}H_{14}FeO$	
11-Hydroxy[3]ferrocenophane, X'9.5	
$C_{13}H_{14}FeO_2$	
1,1-Dimethylferrocene-3-carboxylic acid, X9.4	
$C_{13}H_{14}N_2O_8$	
2,2-Dimethyl-3-hydroxybutyric acid 3,5,-dinitrobenzoate, A12.14	
$C_{13}H_{14}NOP$	
<i>N</i> -Phenyl methylphenylphosphinic amide, Z6.7	
$C_{13}H_{14}N_2O_4S_2$	
Gliotoxin, Y24.7	
$C_{13}H_{14}O$	
3-Phenylnorbornan-2-ones, A47.2, A47.5	
4-Methyl-4-phenylcyclohex-2-ene-1-one, A'39.11	
6-Methyl-6-phenylbicyclo[3.1.0]hexan-2-one, A'40.9	
$C_{13}H_{14}OS$	
3-Phenyl-2-(2-thienyl)-propan-1-ol, A43.15	
$C_{13}H_{14}O_2$	
5-Methyl-4-phenylhexa-2,3-dienoic acid, X3.3	
Tremetone, Y1.8	
Myochromanone, Y'2.12	
$C_{13}H_{14}O_3$	
Hydroxytremetone, Y1.8	
Toxol, Y1.5	
$C_{13}H_{14}O_4$	
LL-D253 $\gamma$ , Y1.1	
$C_{13}H_{14}O_5$	
Citrinin, Y13.7	
$C_{13}H_{14}S$	
3-Phenyl-2-(2-thienyl)-propane, A43.15	
$C_{13}H_{15}BrN_2O_4S$	
1-( <i>p</i> -Bromophenyl)-4,5-(1,2- <i>cis</i> -glucofuranoidimidazoline-2-thione, C'1.8	
$C_{13}H_{15}ClO$	
2-Phenylcyclohexanecarboxylic acid chloride, A'23.15	
$C_{13}H_{15}N$	
4a-Methyl-1,2,3,4-tetrahydro-4a <i>H</i> -carbazole, A'37.5	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- $C_{13}H_{15}NO$   
2,3,11,11a-Tetrahydro-1H-benzo-[b]-quinolizin-2(6H)-one, **A5.19**
- $C_{13}H_{15}NO$   
3,4,11,11a-Tetrahydro-2H-benzo-[b]quinolizin-1(6H)-one, **A5.17**
- Tetrahydrobenzoquinolizinone, **K18.1**
- $C_{13}H_{15}NO_2$   
Securinine, **K18.2**
- $C_{13}H_{15}NO_2$   
Allosecurinine, **K18.4**
- 3-Cyano-3-phenylbutyric acid ethyl ester, **A'39.18**
- $C_{13}H_{15}NO_3$   
*N*-Benzoylpipecolic acid, **A10.7**
- Phyllantidine, **K18.13**
- 2-Acetamidotetralin-2-carboxylic acid, **A'22.1**
- $C_{13}H_{16}$   
1-(2-Methylpropenyl)-2-phenylcyclopropane, **A44.7**
- 2-Methyl-2-phenyl-1-methylenecyclopentane, **A'40.20**
- $C_{13}H_{16}ClNO$   
3-Benzoyl-3-chloro-1-methylpiperidine, **A'18.13**
- $C_{13}H_{16}FeO$   
1-Ferrocenyl-1-methoxyethane, **A'14.15**
- $C_{13}H_{16}N_2O$   
1,2,3,4-Tetrahydroharmine, **K16.5**
- $C_{13}H_{16}N_2O_3S$   
2-(Ethylthio)tryptophan sulphoxide, **Z'8.6**
- $C_{13}H_{16}O$   
3-*tert*-Butylindan-1-one, **A49.4**
- 2,2-Dimethyl-3-ethylindan-1-one, **A42.8**
- 3-Phenylnorbornan-2-ol, **A47.6**
- 2-Benzylcyclohexanone, **A'32.11**
- 2-(*o*-Tolyl)cyclohexanone, **A'21.12**
- $C_{13}H_{16}O_2$   
2-Phenylnorbornane-1,2-diol, **A47.3**
- 3-(2-Ethylbenzoyl)-tetrahydrofuran, **A30.4**
- 1,2-Benzocycloheptane-7-acetic acid, **A'30.8**
- 3-Butyl-3,4-dihydrocoumarin, **A'26.14**
- 4-Methyl-1-phenylhexane-1,3-dione, **A'26.18**
- Tetralin-2-acetic acid methyl ester, **A'35.7**
- 3-Hydroxy-4-methyl-4-phenylcyclohexanone, **A'39.7**
- 2-Methyl-1-phenylcyclopentanecarboxylic acid, **A'40.18**
- 2-Phenylcyclohexanecarboxylic acid, **A'23.15**
- Myochromanol, **Y'2.11**
- $C_{13}H_{16}O_3$   
Pterosin C, **Y'7.5**
- $C_{13}H_{16}O_4$   
2-Acetoxy-2-methyl-3-phenylpropionic acid methyl ester, **A'11.4**
- Adamantan-4-one-2-carboxylic acid, **A'33.9**
- 3-Benzylglutamic acid momomethyl ester, **A'35.6**
- $C_{13}H_{16}O_9$   
Julimycin deriv., **Y18.5**
- $C_{13}H_{17}BrO_7$   
6β-Bromo-7β,7αβ-epoxy-4α,6α-dihydroxy-7α-methoxycarbonyl-3β,4β-dimethyl-3αβ,7αβ-octahydrobenzo[c]-furan-1-one, **Y18.7**
- $C_{13}H_{17}N$   
2-Amino-3-phenylnorbornane, **A47.4**
- $C_{13}H_{17}NO$   
1,3,4,6,11,11a-Hexahydro-[2H]-benzo-quinolizine, **A5.18**
- 1,2-Benzooquinolizidine, **K18.3**
- $C_{13}H_{17}NO$   
2-Oxo-1,4-dimethyl-1,2,3,4-tetrahydroquinoline, **A56.15**
- 1-Methyl-3-benzoylpiperidine, **A'18.8**
- $C_{13}H_{17}NO_2$   
2-Phenyl-2-(2-pyrrolidyl)acetic acid, **A'17.11**
- 3-Benzoyl-1-methyl-3-piperidinol, **A'18.12**
- $C_{13}H_{17}NO_3$   
Lophophorine, **K'2.9**
- $C_{13}H_{18}$   
1-(2-Methylpropyl)-2-phenylcyclopropane, **A44.2**
- 4,4-Dimethyl-3-phenylpent-1-ene, **A'19.15**
- 1,2-Dimethyl-1-phenylcyclopentanes, **A'40.19**
- $C_{13}H_{18}N_2O$   
2-Phenyl-2-(2-pyrrolidyl)acetamide, **A'17.11**
- $C_{13}H_{18}O$   
2-Methyl-1-phenylhexan-3-one, **A43.20**
- 4-Methyl-4-phenylhexan-3-one, **A56.13**
- 3,3-Dimethyl-4-phenylpentan-2-one, **A42.1**
- 1,1,2-Trimethyl-1-tetralol, **A25.1**
- 1-Benzoyl-3-methylpentane, **A'16.7**
- 3-Methyl-3-phenylhexan-2-one, **A'30.9**
- 1,2-Dimethyl-2-phenylcyclopentanols, **A'40.15**
- Cyclohexylphenylmethanol, **A'19.17**
- 2-(*o*-Tolyl)cyclohexanols, **A'21.11, A'21.16**
- 1-Hydroxymethyl-2-phenylcyclohexane, **A'23.20**
- $C_{13}H_{18}OP$   
Cyclohexylmethylphenylphosphine oxide, **Z4.2**
- $C_{13}H_{18}O_2$   
2-Phenylheptanoic acid, **A50.2**
- 5-Phenylheptanoic acid, **A63.1**
- 4-Methyl-6-phenylhexanoic acid, **A61.14**
- 4,4-Dimethyl-3-phenylpentanoic acid, **A49.8**
- 2,2-Dimethyl-3-phenylpentanoic acid, **A42.9**
- 2-Benzylhexanoic acid, **A43.5**
- 2-(Buta-1,2-dienyl)-3-hydroxy-4-(penta-1,3-dienyl)-tetrahydrofuran, **Y15.6**
- 3-Phenylheptanoic acid, **A'26.4**
- 2-Isopropyl-2-methyl-3-phenylpropionic acid, **A'36.4**
- $C_{13}H_{18}O_3$   
Dehydrovomifoliol, **T'17.5**
- $C_{13}H_{19}N$   
Cyclohexylphenylmethylamine, **A23.20**

## Formulae Index

---

$C_{13}H_{19}NO$	$C_{13}H_{22}O_3$
$\alpha$ -Prodinol, A'18.1	Methyl dihydrojasmonate, A36.13
$\beta$ -Prodinol, A'18.1	Blumenol B, T'17.4
$C_{13}H_{19}NO_3$	$C_{13}H_{22}O_4$
$O$ -Methylanhalonidine, K'2.10	Ester from pinene, T'2.10
$C_{13}H_{19}N_3O_5S_2$	$C_{13}H_{22}O_6$
Sparsomycin, Y20.5	3,5-Epoxyhexahydro-2-dimethoxymethyl-6-methoxy-5,7-dimethyl-2H-furo[3,2-b]pyran, Y12.11
$C_{13}H_{20}$	$C_{13}H_{23}N$
2-Methyl-1-phenylhexane, A43.19	1-Amino-3-ethyl-5-methyladamantane, A'37.12
$C_{13}H_{20}N_2O_6$	$C_{13}H_{23}NO$
Actinobolin, Y30.4	Valeroidine, K28.4
$C_{13}H_{20}N_2OS_2$	Convergine, K'7.9
Iberin thiourea deriv., Z8.12	Adaline, K'7.14
$C_{13}H_{20}O$	$C_{13}H_{24}N_2O$
$\alpha$ -Ionone, T54.8	Anaferine, K19.11
$\gamma$ -Ionone, T54.6	$C_{13}H_{24}O$
5-Phenylheptan-1-ol, A62.19	5-Cyclohexylheptan-3-one, A42.3
8,8,10-Trimethyl- $\Delta^{(9)}$ -2-octalone, T'4.10	$C_{13}H_{24}O_3$
8-Methylene-5-methylspiro[5.5]undecan-1-one, T29.13	$\alpha$ -Gurjunene derivative, T'8.10
$\alpha$ -Damascone, T54.5	$C_{13}H_{24}O_4$
$C_{13}H_{20}O_2$	Nonylsuccinic acid, Y'2.1
2-(3,5-Dimethoxy-2-methylphenyl)-butane, Y13.10	$C_{13}H_{25}N$
Theaspirone, T'17.1	Pumiliotoxin C, K'6.13
3-Oxo- $\alpha$ -ionol, T'17.7	$C_{13}H_{26}O$
$C_{13}H_{20}O_3$	8-Methyl-5-isopropylnonan-2-one, T58.3
3-(3,5-Dimethoxy-2-methylphenyl)-butan-2-ol, Y13.18	$C_{13}H_{26}O_2$
Grasshopper ketone, T55.2	2-Methyldodecanoic acid, A34.2
Vomifoliol, T'17.4	$C_{13}H_{27}NO$
$C_{13}H_{20}S$	N-Methyl-N-(2,2-dimethylpropyl)-4-methylcyclohexylamines, Z3.3, Z3.4
Isopropyl 2-phenylbutyl sulphide, A'20.3	$C_{13}H_{27}O_2P$
$C_{13}H_{21}NO$	Menthyl ethylmethylphosphinate, Z6.3
Luciduline, K26.3	
$C_{13}H_{21}NO_2$	
Anodendrine, K22.11	<b>C<sub>14</sub></b>
Alloanodendrine, K22.11	
$C_{13}H_{22}$	$C_{14}H_{11}BrO_5$
Cyclotrideca-1,2-diene, X'1.8	6-Bromobenzobicyclo[2.2.2]octan-2-one-7,8-dicarboxylic acid, X'5.8
$C_{13}H_{22}Cl_6OPSB$	$C_{14}H_{11}NO_2$
Ethoxy- <i>tert</i> -butylmethylphenylphosphonium hexachloroantimonate, Z4.9	2-Hydroxy-2-(3-phenoxyphenyl)acetonitrile, A'35.11
$C_{13}H_{22}N_2O_2$	$C_{14}H_{12}ClNS$
Polyzonimine, K'8.7	8-Chloro-10-amino-10,11-dihydrodibenzothiepin, A'7.2
$C_{13}H_{22}O$	$C_{14}H_{12}O$
5,8,10-Trimethyl-2-decalone, T27.3	1,2-Diphenyl-1,2-epoxyethane, A23.12
Solanone, T58.2	Tricyclo[7.3.2.0 <sup>5,13</sup> ]tetradeca-3,5,7,9,11,1(13)-hexaen-2-ol, X'9.7
Tetramethylperhydroindanone, T'4.1	
2-Allyl-4- <i>tert</i> -butylcyclohexanone, A'32.9	$C_{14}H_{12}O_2$
$C_{13}H_{22}O_2$	Benzoin, A23.9
7-Hydroxy-8,8,10-trimethyl-2-decalone, T'5.4	9,10-Dihydro-9,10-dihydroxyphenanthrene, A24.7
3-Hydroxy- $\beta$ -ionone, T'18.2	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{14}H_{12}O_2$  continued
- 1,2-Dihydroanthracene-1,2-diols, **A'7.16**
  - 3-Phenyl-3,4-dihydrocoumarin, **A'26.15**
  - $C_{14}H_{12}O_2S$   
2-Phenylmercapto-2-phenylacetic acid, **A'19.4**
  - $C_{14}H_{12}O_4$   
5,6-Benzobicyclo[2.2.2]oct-2-ene-7,8-dicarboxylic acid, **X'5.5**
  - $C_{14}H_{12}O_5$   
5,6-Benzobicyclo[2.2.2]octan-2-one-7,8-dicarboxylic acid, **X'5.8**
  - $C_{14}H_{12}S$   
1,2-Diphenylthiiran, **A23.5**
  - $C_{14}H_{13}ClO$   
2-Chloro-1,2-diphenylethanol, **A23.17**
  - $C_{14}H_{13}N$   
2,3-Diphenylaziridine, **A23.19**
  - $C_{14}H_{13}NO$   
Desylamine, **A23.18**
  - $C_{14}H_{13}NO_4$   
3-Benzamido-3-(2-furyl)-propionic acid, **K'10.12**
  - $C_{14}H_{13}NO_7$   
Narciclasine **K'1.6**
  - $C_{14}H_{14}$   
2,2'-Dimethylbiphenyl, **X5.5**  
3-(1-Naphthyl)but-1-ene, **A'35.1**
  - $C_{14}H_{14}D_2OS$   
[1,1- $H_2$ ]-Dibenzyl sulphoxide, **D'3.12**
  - $C_{14}H_{14}FeO$   
1,2-( $\alpha$ -Oxotetramethylene)-ferrocene, **X9.7**
  - $C_{14}H_{14}N_2O_3$   
Pyridindolol, **A'10.7**
  - $C_{14}H_{14}O$   
1,2-Diphenylethanol, **A23.16**  
1,2,3,4-Tetrahydroanthracen-2-ol, **A'7.15**  
*p*-Tolyl phenyl carbinol, **A'19.11**  
Farfugin A, **T'7.8**
  - $C_{14}H_{14}OS$   
Tolyl *p*-tolylsulphoxides, **Z7.6**  
[ $\alpha$ - $^{13}C$ ] Dibenzyl sulphoxide, **D'3.11**
  - $C_{14}H_{14}O_2$   
Ichthyothereol, **Y15.2**  
2-(1-Naphthyl)butyric acid, **A'35.3**  
3-(1-Naphthyl)butyric acid, **A'35.5**  
1,2-Diphenylethane-1,2-diol, **A23.11**
  - $C_{14}H_{14}O_2S$   
Benzyl *p*-tolyl-[ $^{16}O$ / $^{18}O$ ]-sulphone, **D'3.4**  
Phenethyl phenyl sulphone, **A'13.7**  
(2-Hydroxymethylphenyl) *p*-tolyl sulphoxide, **Z'6.5**
  - $C_{14}H_{14}O_3$   
Kawain, **Y'4.2**  
Naproxen, **A'13.6**
  - $C_{14}H_{14}O_4$   
Lomatin, **Y1.3**  
Decursinol, **Y1.9**
  - 6,6'-Dimethyl-2,2'-diphenic acid, **X5.12**
  - Dihydrooroselol, **Y1.10**
  - Marmesin, **Y1.11**
  - $C_{14}H_{14}O_5$   
Khellactones, **Y1.1, Y1.2**  
Austdiol deriv. **Y11.9**
  - $C_{14}H_{14}O_6$   
Decevinic acid, **K35.4**
  - $C_{14}H_{14}S$   
Phenethyl phenyl sulphide, **A'13.5**
  - $C_{14}H_{15}As$   
Benzylmethylphenylarsine, **Z3.8**
  - $C_{14}H_{15}BrO_2$   
3-Bromo-4-*tert*-butyl-4-phenylcrotonolactone, **X3.4**
  - $C_{14}H_{15}N$   
1,2-Diphenylethylamine, **A20.15**
  - $C_{14}H_{15}NO$   
2-Amino-1,2-diphenylethanols, **A20.14**  
1-Formyl-4*a*-methyl-2,3,4,4*a*-tetrahydrocarbazole, **A'37.6**
  - $C_{14}H_{15}NOS$   
*N*-Methyl-*N*-phenyl-*p*-toluenesulphinate, **Z'6.7**
  - $C_{14}H_{15}NO_4$   
5-Methylcyclohex-2-en-1-ol, *p*-nitrobenzoate, **A38.15**
  - $C_{14}H_{15}N_3O_2$   
Tryptophan deriv., **K30.8**
  - $C_{14}H_{15}N_3O_2$   
Indolmycin, **Y27.5**
  - $C_{14}H_{15}OP$   
Benzylmethylphenylphosphine oxide, **Z6.7**
  - $C_{14}H_{15}O_2P$   
Methyl *p*-methoxyphenylphosphine oxide, **Z4.16**
  - $C_{14}H_{15}P$   
Benzylmethylphenylphosphine, **Z5.14**
  - $C_{14}H_{16}$   
2-(2-Naphthyl)butane, **A'15.3**  
2-(1-Naphthyl)butane, **A'35.2**
  - $C_{14}H_{16}ClFO_3$   
2(Chlorofluoroacetoxy)-1-phenylcyclohexanol, **A'1.1**
  - $C_{14}H_{16}Fe$   
2-Methyl-[3]-ferrocenophane, **X9.9**  
3-Methyl-[3]-ferrocenophane, **X9.5**
  - $C_{14}H_{16}FeO$   
*α*-*endo*-Hydroxytetramethyleneferrocene, **X9.12**
  - $C_{14}H_{16}FeO_2$   
1-Acetoxy-1-ferrocenylethane, **A'14.15**
  - $C_{14}H_{16}N_2$   
1,2-Diamino-1,2-diphenylethane, **A20.19**  
2,2'-Diamino-6,6'-dimethylbiphenyl, **X5.4**
  - $C_{14}H_{16}N_2O_3S_2$   
Hyalodendrin, **Y'11.2**

## Formulae Index

---

$C_{14}H_{16}N_2O_6$	1,3-Dimethyl-3-benzoylpiperidine, A'37.16
Indicaxanthin, K17.10	
$C_{14}H_{16}O$	
2-Benzylidene-5-methylcyclohexanone, X4.1	
6-Methyl-7-phenylbicyclo[4.1.0]heptan-2-one, A'37.13	3-Benzoyl-1-methyl-3-methoxypiperidine, A'18.12
4-Ethyl-4-phenylcyclohex-2-ene-1-one, A'39.14	
$C_{14}H_{16}O_2$	
5,5-Dimethyl-4-phenylhexa-2,3-dienoic acid, X3.3	$C_{14}H_{19}NO_4$
	Anisomycin, Y27.3
$C_{14}H_{16}O_3$	
Fraxinellone, Y19.14	$C_{14}H_{19}N_2O_7P$
Desmethyldesmotroposantoin, T22.12	1 $\alpha$ -Ribofuranosyl-5,6-dimethylbenzimidazole phosphate, Y24.3
$C_{14}H_{16}O_4$	
1,2-Diacetoxytetralin, A25.11	$C_{14}H_{20}$
Dihydrokawain-5-ol, Y'4.1	1-Cyclohexyl-1-phenylethane, A'40.4
$C_{14}H_{17}NO$	
Epoxyethano-1,2,3,4-tetrahydrocarbazole, A'37.7	$C_{14}H_{20}N_2O_4S$
$C_{14}H_{17}NO_2$	Penicillin F, Y29.4
9-Formyl-9a-hydroxy-4a-methyl-1,2,3,4,4a,9a-hexahydrocarbazoles, A'37.4	
$C_{14}H_{18}$	$C_{14}H_{20}O$
1- <i>tert</i> -Butyl-3-methylindene, A49.2	3,3-Dimethyl-4-phenylhexan-2-one, A42.12
3- <i>tert</i> -Butyl-1-methylindene, A49.1	Chamaecynenol, T20.15
1-Benzylidene-4-methylcyclohexane, X4.2	1-Cyclohexyl-1-phenylethanol, A'40.3
$C_{14}H_{18}Fe$	2,4,6-Trimethyl-5-(2-hydroxyethyl)indane, Y'7.6
1,2-Tetramethylene-3-methylferrocene, X9.3	
$C_{14}H_{18}N_2$	$C_{14}H_{20}O_2$
Echiboline, A'37.9	5-Methyl-7-phenylheptanoic acid, A61.13
$C_{14}H_{18}N_2O$	2-Cyclohexyl-2-phenylpropionic acid, A'40.8
Leontidine, K'6.5	3-Phenoctanoic acid, A'26.6
$C_{14}H_{18}N_2O_3$	
Physovenine, K30.10	$C_{14}H_{20}O_3$
$C_{14}H_{18}O$	13-Nor-3-dehydroisoiresin, T32.5
Chamaecynone, T20.7	
1-Benzylidene-4-hydroxymethylcyclohexane, X'1.12	$C_{14}H_{20}O_6$
	Colletodiol, Y'5.6
$C_{14}H_{18}O_2$	
Pterosin B, Y'7.3	$C_{14}H_{21}NO$
$C_{14}H_{18}O_3$	2-Dimethylamino-1-phenylcyclohexanol, A52.4
Pterosin G, Y'7.3	2-Dimethylamino-2-phenylcyclohexanol, A52.2
3-( <i>o</i> -Methoxyphenyl)heptanoic acid, A'26.11	Sedamine, K18.8
$C_{14}H_{18}O_5$	Allosedamine, K18.7
4,6- <i>O</i> -Benzylidene-3-deoxy- $\alpha$ -D-ribopyranoside, Y30.3	1,3-Dimethyl-5-ethoxy-3-ethyl-2,3-dihydroindole, A55.8
$C_{14}H_{18}O_8$	1,2,5-Trimethyl-4-phenyl-4-piperidinol, A'18.5
Acid from vertisporin, T'6.15	
$C_{14}H_{19}FeN$	$C_{14}H_{22}$
<i>N,N</i> -Dimethyl-1-ferrocenylethylamine, A'14.10	Bicyclo[8.4.0]tetradeca-2,8-diene, A'23.18
$C_{14}H_{19}N$	
9-Phenyl-9-azabicyclo-[6.1.0]-nonane, X2.10	$C_{14}H_{22}N_2$
$C_{14}H_{19}NO$	2-Piperidinoethylamine, A13.2
2-Dimethylamino-2-phenylcyclohexanone, A52.1	
	$C_{14}H_{22}N_2O_2$
	Lamprolobine, K21.3
	$C_{14}H_{22}N_2O_3$
	Practolol, A'11.10
	$C_{14}H_{22}O$
	Norcedranone, T29.6
	Apoaromadendrone, T26.3
	$\alpha$ -Apoaromadendrone, T26.5
	<i>cis</i> - $\alpha$ -Irene, T54.7
	<i>trans</i> - $\alpha$ -Irene, T54.4
	$\beta$ -Irene, T54.1
	<i>cis</i> - $\gamma$ -Irene, T54.3
	Norseychellanone, T27.1
	Khusimol deriv., T27.12
	3,4-Dimethyl-4-phenyl-hexan-3-ols, A56.12, A56.16

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{14}H_{22}O$  continued
- Ketone from prezizaene, **T29.12**
  - Perhydroanthracen-2-one, **A'34.2**
  - Ketone from thujopsene, **T'4.5**
  - Ketone from pompene, **T'8.5**
- $C_{14}H_{22}O_2$
- Rishitin, **T22.16**
  - 2,5,5,9-Tetramethyldecalin-1,6-dione, **T42.12**
  - 3-Ethyl-5-methyladamantane-1-carboxylic acid, **A'37.11**
- $C_{14}H_{22}O_3$
- Indanone deriv. from kolavic acid, **T37.11**
- $C_{14}H_{23}ClO_2$
- "Caryophylline chlorohydrin", **T'6.13**
- $C_{14}H_{24}N_2$
- Angustifoline, **K21.7**
- $C_{14}H_{24}N_2O_7$
- Spectinomycin, **Y'12.4**
- $C_{14}H_{24}O$
- Hexahydrochamaecynone, **T20.3**
- $C_{14}H_{24}O_2$
- 3-Methoxy- $\beta$ -ionone, **T'18.2**
- $C_{14}H_{24}O_3$
- 4-Hydroxy-2,2,6-trimethylcyclohexanone tetrahydropyranyl ether, **T'18.1**
- $C_{14}H_{25}N_3O_9$
- Kasugamycin, **C4.11**
- $C_{14}H_{26}O_2$
- 2-Octylcyclopentanecarboxylic acid, **A'25.14**
- $C_{14}H_{26}O_3$
- Lesquerolic acid, **A7.16**
- $C_{14}H_{28}O$
- 2,6,10-Trimethylundecanal, **T56.6**
- $C_{14}H_{28}O_2$
- 2-Ethyl-2-methyleicosanoic acid, **A'36.5**
- $C_{14}H_{28}O_5$
- Menthyl butanesulphinate, **Z'8.11**
- $C_{14}H_{28}O_3$
- 8-Hydroxytetradecanoic acid, **A7.15**
- $C_{14}H_{30}O$
- Tetradecan-3-ol, **A13.11**
- C<sub>15</sub>**
- $C_{15}H_9N_5O_{11}$
- TAPA, **A'11.16**
- $C_{15}H_{10}N_2O_5$
- 4',1''-Dinitrodibenz-1,3-cycloheptadiene-6-one, **X6.1**
- $C_{15}H_{11}ClN_2O_2$
- Oxazepam, **A'1.3**
- $C_{15}H_{11}DN_2O$
- [<sup>3-2</sup>H]Demethyldiazepam, **D'1.17**
- $C_{15}H_{11}I_4NO_4$
- Thyroxine, **A5.14**
- $C_{15}H_{12}$
- 1,3-Diphenylallene, **X1.11**
- $C_{15}H_{12}I_3NO_4$
- Triiodothyronine, **A5.14**
- $C_{15}H_{12}N_2O_3$
- 5-(*p*-Hydroxyphenyl)-5-phenylhydantoin, **A'18.16**
- $C_{15}H_{12}O_2$
- Flavan-4-one, **A'9.18**
- $C_{15}H_{12}O_3$
- 7-Hydroxyflavan-4-one, **Y6.3**
- $C_{15}H_{12}O_4$
- Liquiritigenin, **Y6.2**
  - 4',7-Dihydroxyisoflavanone, **Y'1.4**
- $C_{15}H_{12}O_5$
- Naringenin, **Y6.6**
- $C_{15}H_{12}O_6$
- Fustin, **Y4.3**
  - Hesperetin, **Y6.5**
  - Taxifolin, **Y4.8**
- $C_{15}H_{13}Cl$
- 1-Chloro-2,2-diphenylcyclopropane, **A'27.3**
- $C_{15}H_{13}F$
- 1-Fluoro-2,2-diphenylcyclopropane, **A'27.1**
- $C_{15}H_{13}N$
- 3-Amino-1-phenylbut-1-ene, **A'14.12**
- $C_{15}H_{14}$
- 1,2-Diphenylcyclopropane, **A44.10**
- $C_{15}H_{14}BrNO$
- 2-Phenethyl-3-(*p*-bromophenyl)oxaziridine, **Z'2.5**
- $C_{15}H_{14}Br_2OS$
- (1,2-Dibromo-2-phenylethyl) *p*-tolyl sulphoxide, **Z'7.4**
- $C_{15}H_{14}O$
- 1-Benzoyl-1-phenylethane, **A48.11**
  - 1-Phenylindan-1-ol, **A25.22**
- $C_{15}H_{14}O_2$
- Flavan-7-ol, **Y6.4**
  - Methylbenzoin, **A51.9**
  - 2,3-Diphenylpropionic acid, **A43.11**
  - 4-Hydroxyflavan, **A'9.17**
- $C_{15}H_{14}O_3S$
- 2-Benzylmercapto-2-phenylacetic acid, **A'19.3**
  - Phenacyl *p*-tolyl sulphoxide, **Z'7.7**
- $C_{15}H_{14}O_3$
- 2-Hydroxy-2,3-diphenylpropionic acid, **A'18.4**
- $C_{15}H_{14}O_4$
- Stenocarpoquinone, **Y'2.10**
- $C_{15}H_{14}O_4S$
- 2-Benzenesulphonyl-2-phenylpropionic acid, **A'13.8**
- $C_{15}H_{14}O_5$
- Fisetinidol, **Y4.6**
  - Methylsticin, **Y'3.8**
- $C_{15}H_{14}O_6$
- Catechin, **Y3.1**
  - Epicatechin, **Y3.3**
  - Mollisacacidin, **Y4.4**

## Formulae Index

---

$C_{15}H_{14}O_7$		$C_{15}H_{16}O_5$	
Canescins, Y6.9		Pentalenolactone, T30.14	
$C_{15}H_{15}Br$	1-Bromo-1,2-diphenylpropane, A'30.15	"Quinone A", Y10.5	
$C_{15}H_{15}BrO_2S$	(1-Bromo-2-hydroxy-2-phenylethyl) <i>p</i> -tolyl sulphoxide, Z'7.6	Visamminol, Y1.15	
$C_{15}H_{15}Cl$	1-Chloro-1,2-diphenylpropane, A'30.15	$C_{15}H_{16}O_6$	
$C_{15}H_{15}NO$	4-Aminoflavan, A'9.16	Elephantol, T24.4	
$C_{15}H_{15}NO_2$	2-Anilino-2-phenylpropionic acid, A40.18	Plumericin, T16.3	
	3-Amino-2,3-diphenylpropionic acids, A43.6, A43.12	Picrotoxinin, T31.9	
$C_{15}H_{15}NO_2S_2$	<i>N</i> -Tosyl-2,3-dihydrobenzo[b]thiophene-1-imide, Z'7.9	Isoplumericin, T16.3	
$C_{15}H_{15}NO_3S_2$	2,3-Dihydrobenzo[b]thiophene-1-imide-1-oxide, <i>N</i> -tosyl-, Z'7.12	$C_{15}H_{16}O_8$	
	1,2,3,4-Tetrahydro-4,6-dihydroxy-1-phenylisoquinolines, K1.2, K1.5	Leucodrin, Y6.7	
$C_{15}H_{15}NO_4$	Thyronine, A5.11	$C_{15}H_{16}S$	
$C_{15}H_{16}$	1,2-Diphenylpropane, A48.12	Phenethyl <i>p</i> -tolyl sulphide, A'13.5	
$C_{15}H_{16}FeO$	5-Methyl-1,2-( $\alpha$ -oxotetramethylene)-ferrocene, X9.6	$C_{15}H_{17}BrO_3$	
	2,3-Ferroceno-5- <i>exo</i> -methylcyclohex-2-en-1-one, X'9.8	2-Bromo- $\beta$ -desmotroposantonin, T21.14	
$C_{15}H_{16}N_2O_5S$	Penicillin X, Y29.4	$C_{15}H_{17}BrO_6$	
$C_{15}H_{16}O$	1,2-Diphenylpropan-1-ols, A48.10, A48.16	$\alpha$ -Bromoisotutin, T31.7	
	2,3-Diphenylpropan-1-ol, A43.8	$C_{15}H_{17}N$	
	1,1-Diphenylpropan-2-ol, A'30.14	1-Amino-1,2-diphenylpropanes, A43.1, A43.9	
	1-Methoxy-1,2,3,4-tetrahydroanthracene, A'7.15	$C_{15}H_{17}NO$	
	4a-Methyl-4,4a,9,10-tetrahydro-2(3H)phenanthrene, A'39.6	3-Amino-2,3-diphenylpropan-1-ol, A43.2	
$C_{15}H_{16}O_2$	1,2-Diphenylpropane-1,2-diol, A51.8	1-Amino-1,2-diphenylpropan-2-ol, A'8.17	
$C_{15}H_{16}O_2S$	Phenethyl <i>p</i> -tolyl sulphone, A'13.7	<i>S</i> -Methyl- <i>N</i> -tosyl- <i>S</i> -tolylsulphimide, Z8.1	
$C_{15}H_{16}O_2S_2$	Bis( <i>p</i> -tolylsulphinyl)methane, Z'6.8	$C_{15}H_{17}NO_2S_2$	
$C_{15}H_{16}O_3$	Linderalactone, T20.12	Methyl- <i>p</i> -tolyl- <i>N</i> -tosylsulphimine, Z8.1	
	Isolinderalactone, T20.13	<i>N</i> -Tosyl- <i>S</i> -methyl- <i>p</i> -toluenesulphimamide, Z'6.11	
$C_{15}H_{16}O_4$	Calodendrolide, T'16.9	$C_{15}H_{17}NO_5$	
	Scabequinone, Y'1.8	Methyl-4,6- <i>O</i> -benzylidene-3-cyano-3-deoxyaltropyranoside, C3.13	
		$C_{15}H_{18}$	
		1,3-Diphenylbutane, A'20.8	
		$C_{15}H_{18}BrClO_2$	
		Chondriol, Y'4.8	
		$C_{15}H_{18}FeO$	
		$\alpha$ - <i>endo</i> -Hydroxytetramethylene-5-methylferrocene, X9.11	
		$C_{15}H_{18}N_2$	
		1,2,3,4,6,7,12,12b-Octahydroindolo-[2,3-a]-quinolizine, K16.4	
		$C_{15}H_{18}N_2S$	
		<i>N</i> -Tosyl <i>S</i> -methyl <i>p</i> -tolylsulphodiimide, Z'7.1	
		$C_{15}H_{18}O$	
		Lindestrene, T21.16	
		Lindenene, T21.9	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- $C_{15}H_{18}O$  continued
- Pallescenin G, **T'3.12**
  - $C_{15}H_{18}OSi$ 
    - Benzylmethoxymethylphenylsilane, **Z'1.12**
  - $C_{15}H_{18}O_2$ 
    - Cacalol, **Y17.4**
    - Ligularenolide, **T23.3**
    - Furanoligularenone, **T23.4**
    - Warburgiadione, **T23.18**
    - Lindenanol, **T21.9**
    - Catalponol, **Y17.1**
    - 2,3-Dimethyl-1-phenylcyclohexene-4-carboxylic acid, **A'25.16**
    - 4,5-Dimethyl-1-phenylcyclohex-1-ene-4-carboxylic acid, **A'25.21**
    - 10a-Methyl-1,7-dioxo-1,2,3,4,5,6,7,9,10a-decahydrophenanthrene, **A'37.3**
  - $C_{15}H_{18}O_3$ 
    - $\alpha$ -Santonin, **T21.15**
    - $\beta$ -Santonin, **T22.13**
    - Achillin, **T22.15**
    - Ambrosin, **T24.5**
    - Perezinone, **T1.10**
    - 2-Oxo-1-phenylcyclohexanecarboxylic acid ethyl ester, **A'40.14**
  - $C_{15}H_{18}O_4$ 
    - Marasmic acid, **T30.13**
    - Artemisin, **T21.7**
    - Helenalin, **T24.7**
    - Parthenin, **T24.8**
    - 1,2-Bis(acetoxymethyl)-1-phenylcyclopropanes, **A'27.14**
  - $C_{15}H_{18}O_5$ 
    - Pulvilloric acid, **Y13.4**
  - $C_{15}H_{18}O_6$ 
    - Tutin, **T31.8**
  - $C_{15}H_{18}O_7$ 
    - Dihydroketopicrotoxinic acid, **K'9.1**
  - $C_{15}H_{19}Br$ 
    - Laurenisol, **T12.13**
  - $C_{15}H_{19}BrO$ 
    - Aplysin, **T12.16**
    - Laurinterol, **T12.12**
  - $C_{15}H_{19}BrO_2$ 
    - Aplysinol, **T12.16**
  - $C_{15}H_{19}Br_2ClO$ 
    - Dactylyne, **Y'4.9**
  - $C_{15}H_{19}ClO_5$ 
    - Chlorochrymorin, **T'9.7**
  - $C_{15}H_{19}FeN$ 
    - 11-Dimethylamino[3]ferrocenophane, **X'9.4**
  - $C_{15}H_{19}NO$ 
    - 1-Benzoyl-2-dimethylamino-2-phenylbutane, **A'20.4**
  - $C_{15}H_{20}$ 
    - Laurene, **T12.13**
    - $\alpha$ -Calcorene, **T16.10**
- $C_{15}H_{20}Br_2O_2$
- Laureatin, **Y'4.6**
  - Isolaureatin, **Y'4.5**
- $C_{15}H_{20}N_2O$
- Anagyrine, **K21.5**
  - Thermopsine, **K21.11**
- $C_{15}H_{20}N_2O_2$
- Baptifoline, **K21.5**
- $C_{15}H_{20}O$
- $\alpha$ -Cuparenone, **T12.9**
  - Nardostachone, **T23.9**
  - Isofuranogermacrene, **T20.14**
  - ar*-Turmerone, **T16.6**
  - Anhydro- $\beta$ -rotunol, **T'7.6**
- $C_{15}H_{20}O_2$
- Bilobanone, **T17.9**
  - Costunolide, **T22.1**
  - Cuparenic acid, **T12.10**
  - Isomyodesmone, **T'1.13**
  - Myodesmone, **T'3.11**
  - Pinguisone, **T'7.14**
  - [8]Paracyclophane-10-carboxylic acid, **X'8.4**
- $C_{15}H_{20}O_3$
- Asperilin, **T21.5**
  - Balchanolide, **T21.8**
  - $\alpha$ -Pipitzol, **T1.13**
  - $\beta$ -Pipitzol, **T1.12**
  - Douglanine, **T22.2**
  - Perezone, **T1.9**
  - Pseudoivalin, **T'9.5**
  - Arteannuin B, **T'7.16**
  - Xanthoxin, **T'17.6**
  - Pterosin A, **Y'7.2**
- $C_{15}H_{20}O_3S$
- 2-Hydroxymethylnorbornane *p*-toluenesulphonate, **A47.10**
- $C_{15}H_{20}O_4$
- Helicobasidin, **T12.5**
  - $\psi$ -Santonin, **T21.11**
  - Geigerin, **T21.2**
  - 6-(3-Formylbutyl)-2-methoxy-3-methylbenzoic acid, methyl ester, **Y11.4**
  - Isophotosantonic lactone, **T22.14**
  - Vulgarin, **T22.3**
  - Illudin S, **T30.9**
  - Laccijalaric acid, **T29.3**
  - Hirsutic acid, **T31.12**
  - Pulchellin C, **T'9.1**
  - Ambrosic acid, **T'9.3**
  - Plenolin, **T'9.6**
  - Florenilanin, **T'9.10**
  - Abscisic acid, **T'17.8**
- $C_{15}H_{20}O_5$
- Solsitalin, **T24.3**
  - Phaseic acid, **T'17.3**
  - Coriolin, **T'9.9**

## Formulae Index

---

$C_{15}H_{21}Br_2ClO_2$	
Pacifenol, <b>T30.15</b>	
$C_{15}H_{21}N$	
Patchoulipyridine, <b>T27.4</b>	
Epiguaiipyridine, <b>T25.4</b>	
$C_{15}H_{21}NO$	
1-Benzoyl-2-piperidinopropane, <b>A'30.16</b>	
5-(3-Hydroxyphenyl)-2-methylmorphan, <b>A'40.10</b>	
$C_{15}H_{21}NO_2$	
1,5-Dimethyl-3-benzamido hex-5-en-2-ol, <b>A20.7</b>	
$C_{15}H_{21}N_3O_2$	
Phytostigmine, <b>K30.7</b>	
$C_{15}H_{21}N_3O_3$	
Geneserine, <b>K30.9</b>	
$C_{15}H_{21}N_3O_3S$	
Cephalosporin C, <b>Y29.8</b>	
$C_{15}H_{22}$	
Cuparene, <b>T12.10</b>	
$\alpha$ -Curcumene, <b>T16.5</b>	
$\gamma$ -Curcumene, <b>T16.8</b>	
<i>trans</i> -Calamenene, <b>T16.11</b>	
$C_{15}H_{22}BrClO$	
Elatol, <b>T'3.5</b>	
$C_{15}H_{22}N_2$	
Verruculotoxin, <b>K'6.8</b>	
$C_{15}H_{22}N_2O$	
Monspessaulanine, <b>K21.14</b>	
$C_{15}H_{22}O$	
Eremophilone, <b>T23.6</b>	
Nootkatone, <b>T23.13</b>	
Isonootkatone, <b>T23.13</b>	
Ishwarone, <b>T23.16</b>	
Isoishwarone, <b>T23.12</b>	
$\alpha$ -Santalal, <b>T28.11</b>	
$\alpha$ -Cyperone, <b>T20.1</b>	
$\beta$ -Cyperone, <b>T20.1</b>	
Aristolone, <b>T26.14</b>	
Cyclocolorenone, <b>T22.17</b>	
Occidol, <b>T21.17</b>	
Cuparenol, <b>T12.10</b>	
$\beta$ -Vetivone, <b>T'2.4</b>	
Rotundone, <b>T25.1</b>	
Cyperotundone, <b>T27.10</b>	
<i>epi</i> - $\alpha$ -Cyperone, <b>T19.3</b>	
Chiloscyphone, <b>T18.12</b>	
Mustakone, <b>T18.1</b>	
Cryptomerion, <b>T5.16</b>	
2-Hydroxycuparene, <b>T12.18</b>	
Maalione, <b>T'8.9</b>	
Zierone, <b>T'8.11</b>	
10-Epizierone, <b>T'8.12</b>	
Isogymnomitrone, <b>T'8.6</b>	
$\alpha$ -Atlantone, <b>T'10.1</b>	
$C_{15}H_{22}OS$	
2-Octyl <i>p</i> -tolysulphoxides, <b>Z7.8, Z7.2</b>	
$C_{15}H_{22}O_2$	
Helminthosporal, <b>T30.8</b>	
$\psi$ -Longifolic acid, <b>T28.1</b>	
Petasalbine, <b>T23.5</b>	
Zizanoic acid, <b>T27.8</b>	
$\beta$ -Rotunol, <b>T'7.5</b>	
Furopelargone A, <b>T14.2</b>	
Hinokiic acid, <b>T'4.6</b>	
Confertifolin, <b>T32.6</b>	
Drimenin, <b>T32.2</b>	
3-Cyclohexyl-3-phenylbutyric acid, <b>A'40.7</b>	
Tetradymol, <b>T'7.1</b>	
Ketone from pompene, <b>T'8.1</b>	
2,4,6-Trimethyl-2-hydroxymethyl-5-(2-hydroxyethyl)indane, <b>Y'7.1</b>	
$C_{15}H_{22}O_3$	
Ngaione, <b>T'4.12</b>	
Nardosinone, <b>T26.6</b>	
Lemnacarnol, <b>T'3.6</b>	
Myoporone, <b>T'3.14</b>	
Phomenone, <b>T'7.2</b>	
Furanoeremophilane-6 $\beta$ ,10 $\beta$ -diol, <b>T'7.7</b>	
2-Acetoxy- $\beta$ -ionone, <b>T'17.14</b>	
Avenaciolide, <b>Y'2.2</b>	
Pterosin L, <b>Y'7.4</b>	
$C_{15}H_{22}O_4$	
Verrucarol, <b>T31.2</b>	
Fukinolidiol, <b>T23.1</b>	
Iresin, <b>T32.1</b>	
Humulinic acids, <b>Y'9.2</b>	
Parthemollin, <b>T'3.13</b>	
$C_{15}H_{22}O_5$	
Metabolite C, <b>T'17.9</b>	
$C_{15}H_{22}O_6$	
Pseudoanisatin, <b>T30.16</b>	
$C_{15}H_{22}O_7S$	
Breynolide, <b>T'3.10</b>	
$C_{15}H_{22}O_9$	
Aucubin, <b>T15.11</b>	
$C_{15}H_{23}BrO$	
Cyperene deriv. <b>T27.9</b>	
Ketone from longifolene, <b>T'8.8</b>	
$C_{15}H_{23}BrOS$	
2-Bromo-2-octyl <i>p</i> -tolyl sulphoxides, <b>Z'7.10, Z'7.15</b>	
$C_{15}H_{23}BrO_2S$	
2-Bromo-2-octyl <i>p</i> -tolyl sulphone <b>Z'7.11</b>	
$C_{15}H_{23}ClN_2O$	
11 $\beta$ -Chloromatrine, <b>K24.4</b>	
$C_{15}H_{23}N$	
Porantherine, <b>K29.7</b>	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{15}H_{23}NO$   
Deoxynupharidine, K24.11
- $C_{15}H_{23}NO_2$   
1,5-Dimethyl-3-benzamidohexan -2-ol, A20.2  
Nupharidine, K24.11  
Castoramine, K'7.6
- $C_{15}H_{23}NO_4$   
Actidione, Y21.9
- $C_{15}H_{23}P$   
Cyclohexylphenylpropylphosphine, Z5.21
- $C_{15}H_{24}$   
Seychellene, T27.2  
Alloaromadendrene, T26.8  
Longifolene, T28.2  
Longicyclene, T28.1  
Sativene, T28.5  
Cyclosativene, T28.6  
Caryophyllene, T'6.7  
Neoclovene, T'6.8  
Pseudoclovene A, T'6.5  
Bicycloelemene, T19.1  
 $\beta$ -Selinene, T19.10  
 $\alpha$ -Selinene, T19.10  
 $\delta$ -Selinene, T19.8  
Bicyclogermacrene, T19.2  
 $\alpha$ -Ferulene, T26.13  
Aristolene, T26.13  
Thujopsene, T'4.6  
Himachalenes, T12.14  
 $\beta$ -Gorgonene, T31.10  
Cyperene, T27.10  
 $\beta$ -Gurjunene, T26.10  
 $\gamma$ -Gurjunene, T25.7  
iso- $\alpha$ -Gurjunene, T25.9  
 $\beta$ -Cadinene, T18.9  
 $\gamma$ -Cadinene, T18.10  
Copaene, T18.1  
 $\epsilon$ -Murolene, T18.3  
Germacrenes, T18.13  
Cyclocopacamphe, T28.7  
 $\epsilon$ -Bulgarene, T18.15  
 $\alpha$ -Bourbonene, T18.14  
 $\beta$ -Bourbonene, T18.14  
Aromadendrene, T26.2  
 $\alpha$ -Santalene, T28.11  
 $\beta$ -Santalene, T28.12  
 $\alpha$ -Cedrene, T29.4  
 $\beta$ -Bisabolene, T2.6  
Zingiberene, T2.9  
Sesquiphellandrene, T2.9  
 $\alpha$ -Chamigrene, T'4.7  
Sesquicarene, T6.2  
Zonarene, T22.4  
Acoradienes, T'5.3, T29.10, T29.11, T29.15  
 $\alpha$ -Alaskene, T29.11  
Prezizaene, T29.16
- Epi- $\beta$ -Santalene, T28.13  
2,5-Diepi- $\beta$ -cedrene, T29.8  
 $\alpha$ -Pseudowiddrene, T'4.8  
Pseudoclove B, T'6.9  
2,2,4,8-Tetramethyltricyclo[5.3.1.0<sup>4,11</sup>]-undec-8-ene, T'6.12  
Daucene, T'5.5  
1,4,4,8-Tetramethyltricyclo[5.4.0.0<sup>2,5</sup>]-undec-8-ene, T'6.10  
Pompenes, T'8.2, T'8.3  
 $\alpha$ -Gurjunene, T'8.13  
Isocaryophyllene, T'6.11  
10-Methyl[8]paracyclophe, X'8.8
- $C_{15}H_{24}BrO_3P$   
Rearranged cyperene bromophosphonate deriv. T27.11
- $C_{15}H_{24}N_2O$   
Matrine, K24.6  
Leontine, K24.7  
Lupanine, K21.6  
Isolupanine, K21.10  
Allomatrine, K24.7
- $C_{15}H_{24}O$   
 $\alpha$ -Biotol, T29.7  
Khusinol, T27.8  
Copacamphor, T28.9  
Calcone, T16.4  
 $\alpha$ -Betulenol, T'6.2  
 $\beta$ -Betulenol, T'6.4  
Humulenol I, T30.3  
Humelenol II, T30.6  
Humulene epoxide II, T30.5  
Humulene epoxide I, T30.2  
Epishyobunone, T22.9  
Preisocalamendi, T22.11  
Occidentalol, T22.5  
Oxocalarane, T26.11  
Shyobunone, T22.10  
 $\alpha$ -Agarofuran, T19.7  
 $\beta$ -Agarofuran, T19.7  
Fukinone, T23.7  
Lanceol, T2.6  
Sirenen, T6.2  
 $\alpha$ -Santalol, T28.11  
Vetiselinol, T19.5  
Ylangocamphor, T28.9  
Acoragermacrone, T22.11  
Camphenone, T28.8  
Epicamphenone, T28.14  
Agerol, T'5.11  
 $\beta$ -Elemen-9 $\beta$ -ol, T'5.13  
Gymnomitrol, T'8.7
- $C_{15}H_{24}O_2$   
Cyperolone, T19.13  
Occidenol, T20.8  
Santanolide C, T22.6

## Formulae Index

---

- Tetrahydroalantolactone, **T21.6**  
 Humulene dioxide, **T30.1**  
 2-Cyclohexyl-2-phenylpropionic acid, **A56.17**  
 Hydroxydihydroeremophilone, **T23.11**  
 Davanone, **T3.13**  
 Prehelminthosporol, **K'9.4**  
 $C_{15}H_{24}O_2S$   
 2-Octyl *p*-tolyl sulphone, **A12.19**  
 $C_{15}H_{24}O_3$   
 Todomatuic acid, **T2.16**  
 1-(3,5-dimethoxyphenyl)-heptan-2-ol, **Y13.5**  
 Illudol, **T30.11**  
 Cryptomerone, **T16.13**  
 Ageratriol, **T'5.9**  
 Cuauhtemone, **T'7.13**  
 $\Delta^{9(12)}\text{Capnellane-3}\beta,\beta,8\beta,10\alpha\text{-triol}$ , **T'8.4**  
 $C_{15}H_{24}O_4$   
 Shiromodiol acetate, **T20.17**  
 Pulchellin A, **T24.9**  
 $C_{15}H_{24}S$   
 2-Octyl *p*-tolyl sulphide, **A12.20**  
 $C_{15}H_{25}BrO$   
 Oppositol, **T'7.15**  
 $C_{15}H_{25}N$   
 1-Dimethylamino-4,4-dimethyl-3-phenylpentane,  
**A'19.16**  
 $C_{15}H_{25}NO$   
 4-Piperidino-2-phenylpentan-2-ol, **A'30.13**  
 $C_{15}H_{25}NO_2$   
 Nupharamine, **K24.8**  
 $C_{15}H_{26}$   
 Seychellene, **T27.2**  
 Tetrahydro-*epi*- $\alpha$ -cyperone, **T20.6**  
 Calarane, **T26.12**  
 Isopatchoulane, **T27.7**  
 $C_{15}H_{26}Br_2$   
 Bulgarene dihydrobromide, **T18.16**  
 Cadinene dihydrobromide, **T18.4**  
 $C_{15}H_{26}Cl_2$   
 Cadinene dihydrochloride, **T18.4**  
 $C_{15}H_{26}N_2$   
 Sparteine, **K21.8**  
 Isosparteines, **K21.12, K21.13**  
 $C_{15}H_{26}N_2O$   
 Retamine, **K21.8**  
 Leontiformine, **K21.9**  
 $C_{15}H_{26}O$   
 Bulnesol, **T25.11**  
 Cubeb camphor, **T18.2**  
 Widdrol, **T'4.9**  
 Viridiflorol, **T26.9**  
 Cedrol, **T29.5**  
 Ledol, **T26.4**  
 Cubenol, **T18.11**
- epi-Cubenol, **T18.8**  
 Torreyol, **T18.5**  
 Carotol, **T'5.6**  
 Guaiol, **T25.5**  
 Liguloxide, **T25.3**  
 Guiaoxide, **T25.6**  
 10-*epi*-Liguloxide, **T25.10**  
 Hinesol, **T'2.9**  
 Allohimachalol, **T12.17**  
 Octahydrodehydroxylinderene, **T21.13**  
 Maaliol, **T19.4**  
 Intermedeol, **T19.15**  
 Neointermedeol, **T19.16**  
 $\alpha$ -Eudesmol, **T19.9**  
 $\beta$ -Eudesmol, **T19.9**  
 $\gamma$ -Eudesmol, **T19.9**  
 Valeranone, **T19.6**  
 Hedycarol, **T20.9**  
 Elemol, **T20.5**  
 5,10-Dimethyl-3-isopropyl-2-decalone, **T23.8**  
 Juniperol, **T28.3**  
 Patchouli alcohol, **T27.5**  
 Acorenols, **T29.9, T29.14**  
 Globulol, **T26.1**  
 Nerolidol, **T3.12**  
 Cycloeudesmol, **T19.14**  
 2,6,6,8-Tetramethyltricyclo[6.2.1.0.<sup>1,5</sup>]undecane, **T29.1**  
 Cyperene deriv., **T29.2**  
 Valerianol, **T'7.4**  
 Hexahydrocoriolin, **T'9.8**  
 $C_{15}H_{26}O_2$   
 Culmorin, **T28.4**  
 Tetrahydrosaussurea lactone, **T20.4**  
 Daucol, **T'5.2**  
 $\alpha$ -Kessyl alcohol, **T25.12**  
 Olopanone, **T18.6**  
 2,5,5,9-Tetramethyldecalin-1-carboxylic  
 acid, **T42.4**  
 Isocalamendiol, **T22.8**  
 Epoxyfarnesol, **T'18.9**  
 $C_{15}H_{26}O_3$   
 $8\alpha$ -Hydroxy-4,5-11 $\alpha$ (H)-eudesman-13-oic  
 acid, **T21.10**  
 $\alpha$ -Kessyl glycol, **T25.12**  
 10,11-Dihydroxyfarnesic acid, **T'18.8**  
 Dehydrohumulinic acids, **Y'9.3**  
 $C_{15}H_{26}O_5$   
 Laserol, **T25.16**  
 $C_{15}H_{26}O_6$   
 1,2,8-Triacetoxy-6-methyloctane, **Y'12.1**  
 $C_{15}H_{27}NO$   
 Porantheridine, **K'7.7**  
 Poranthericine, **K'7.10**

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- C<sub>15</sub>H<sub>27</sub>NO<sub>2</sub>**  
2-(Cyclohexylamino)-2-cyclohexylpropionic acid, **A40.19**  
1-Isopropyl-8,9-dimethyldecalin, **T26.7**
- C<sub>15</sub>H<sub>28</sub>BrClO**  
Octahydromonodebromodactylyne, **Y'4.10**
- C<sub>15</sub>H<sub>28</sub>**  
Nootkatane, **T23.10**  
Selinane, **T19.11**  
Cadinane, **T18.7**  
1-Isopropyl-8,9-dimethyldecalin, **T26.7**
- C<sub>15</sub>H<sub>28</sub>N<sub>2</sub>**  
Desoxymatrinol, **K24.10**
- C<sub>15</sub>H<sub>28</sub>O**  
2,2-Dimethyl-5-cyclohexylheptan-3-one, **A42.7**  
Dihydroguaiols, **T25.8, T25.10**  
Eleman-8-one, **T20.10**  
Fukinan-8-ol, **T23.2**
- C<sub>15</sub>H<sub>28</sub>O<sub>2</sub>**  
Cyclonerodiol, **T'1.1**
- C<sub>15</sub>H<sub>28</sub>O<sub>3</sub>**  
Cyclonerotriol, **T'1.1**
- C<sub>15</sub>H<sub>30</sub>O**  
3,7,11-Trimethyldodecanal, **T56.8**
- 
- C<sub>16</sub>**
- C<sub>16</sub>H<sub>12</sub>O<sub>4</sub>**  
Mandelide, **A'19.7**
- C<sub>16</sub>H<sub>12</sub>O<sub>5</sub>**  
Maackiain, **Y3.8**
- C<sub>16</sub>H<sub>12</sub>O<sub>6</sub>**  
Nanaomycin D, **Y'4.13**
- C<sub>16</sub>H<sub>13</sub>BrO<sub>2</sub>**  
1-Bromo-2,2-diphenylcyclopropanecarboxylic acid, **A'27.1a**
- C<sub>16</sub>H<sub>13</sub>ClO<sub>2</sub>**  
1-Chloro-2,2-diphenylcyclopropanecarboxylic acid, **A'27.2**
- C<sub>16</sub>H<sub>13</sub>FO**  
1-Fluoro-2,2-diphenylcyclopropanecarboxaldehyde, **A'27.9**
- C<sub>16</sub>H<sub>13</sub>FO<sub>2</sub>**  
1-Fluoro-2,2-diphenylcyclopropanecarboxylic acid, **A'27.4**
- C<sub>16</sub>H<sub>13</sub>NO<sub>3</sub>**  
Bridged biphenyl, **X7.3**
- C<sub>16</sub>H<sub>14</sub>N<sub>2</sub>**  
1,5-Diamino-9,10-dihydro-9,10-ethenoanthracene, **X'4.5**
- C<sub>16</sub>H<sub>14</sub>O**  
1-Oxo[2.2]metacyclophane, **X'9.9**  
2,2-Diphenylcyclopropanecarboxaldehyde, **A'27.13**
- C<sub>16</sub>H<sub>14</sub>OS**  
Styryl p-tolyl sulphoxide, **Z'7.5**
- C<sub>16</sub>H<sub>14</sub>O<sub>2</sub>**  
10,12-Dihydro-4H-5,11-dioxadibenzo-[ef,kl]-heptane, **X10.7**
- C<sub>16</sub>H<sub>14</sub>O<sub>3</sub>**  
2,3-Diphenylcyclopropanecarboxylic acid, **A44.15**  
2,2-Diphenylcyclopropanecarboxylic acid, **A35.13**  
1,2-Diphenylcyclopropanecarboxylic acids, **A'27.6, A'27.11**
- C<sub>16</sub>H<sub>14</sub>O<sub>3</sub>**  
4-Methoxydalbergione, **Y4.10**  
2-Phenyl-3-benzoylpropionic acid, **A'20.15**  
2-(2-Carboxybenzyl)-1-indanone, **A'29.6**  
2-(4-Carboxybenzyl)-1-indanone, **A'29.6**
- C<sub>16</sub>H<sub>14</sub>O<sub>4</sub>**  
2,3-Diphenylsuccinic acid, **A43.7**  
6-Benzoyloxycoumaran-2-carboxylic acid, **Y1.12**  
6,6'-Dimethyl-2,2'-diphenic acid, **X5.8**
- C<sub>16</sub>H<sub>14</sub>O<sub>5</sub>**  
Oxypeucedanin, **T57.7**  
Sakuranetin, **Y6.6**  
Phyllodulcin, **Y6.1**
- C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>**  
Peltogynol B, **Y4.5**  
Peltogynol, **Y4.1**  
Nanaomycin A, **Y'4.14**  
2-Deacetylusnic acid, **Y'10.7**
- C<sub>16</sub>H<sub>14</sub>OS**  
10,12-Dihydro-4H-5,11-oxathiadibenzo[ef,kl]-heptane, **X10.10**
- C<sub>16</sub>H<sub>14</sub>S<sub>2</sub>**  
10,12-Dihydro-4H-5,11-dithiadibenzo[ef,kl]-heptane, **X10.11**
- C<sub>16</sub>H<sub>15</sub>D**  
[2-<sup>2</sup>H][2.2]Paracyclophane, **X'8.2**
- C<sub>16</sub>H<sub>15</sub>N**  
2,3-Diphenylbutyronitrile, **A'20.19**
- C<sub>16</sub>H<sub>16</sub>**  
2,2-Diphenyl-1-methylcyclopropane, **A35.12**  
9,10-Dihydro-4,5-dimethylphenanthrene, **X5.1**  
1-Methyl-1-phenylindane, **A'40.5**
- C<sub>16</sub>H<sub>16</sub>Br<sub>2</sub>**  
2,2'-Bis(bromomethyl)-6,6'-dimethylbiphenyl, **X5.2**
- C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>**  
2,6-Diamino-9,10-dihydro-9,10-ethanoanthracene, **X'5.2**
- C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>**  
Lysergic acid, **K17.6**  
Isolysergic acid, **K17.6**
- C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>S**  
Phenoxyethylanhydropenicillin, **Y29.10**
- C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub>S<sub>2</sub>**  
Cephalothin, **Y29.7**
- C<sub>16</sub>H<sub>16</sub>O**  
1-(*p*-Hydroxyphenyl)-tetralin, **A52.14**

## Formulae Index

---

<b>1-Phenyl-1-tetralol, A25.3</b>	<b>C<sub>16</sub>H<sub>18</sub>O</b>
<b>1-Benzoyl-2-phenylpropane, A'20.9</b>	<b>4,4-Diphenylbutan-2-ol, A14.3</b>
<b>1-Methoxy-2,2-diphenylcyclopropane, A'27.19</b>	<b>1,1-Diphenylbutan-2-ol, A'30.10</b>
<b>1-Hydroxy[2.2]metacyclophane, X'9.10</b>	<b>C<sub>16</sub>H<sub>18</sub>OS</b>
<b>C<sub>16</sub>H<sub>16</sub>O<sub>2</sub></b>	<b>Mesityl <i>p</i>-tolyl sulphoxide, Z7.6</b>
<b>3,3-Diphenyl-2-methylpropionic acid, A35.14</b>	<b>C<sub>16</sub>H<sub>18</sub>O<sub>2</sub></b>
<b>2,3-Diphenylpropionic acid, methyl ester, A43.11</b>	<b>2,3-Diphenylbutane-1,4-diol, A43.3</b>
<b>3-Hydroxy-3,4-diphenylbutan-2-one, A'18.3</b>	<b>C<sub>16</sub>H<sub>18</sub>O<sub>2</sub>S<sub>2</sub></b>
<b>2,4-Diphenylbutyric acid, A'20.11</b>	<b>1,2-Bis(<i>p</i>-tolylsulphinyl)ethane, Z'7.3</b>
<b>2,3-Diphenylbutyric acid, A'20.19</b>	<b>C<sub>16</sub>H<sub>18</sub>O<sub>5</sub></b>
<b>C<sub>16</sub>H<sub>16</sub>O<sub>3</sub></b>	<b>5,6-Benzobicyclo[2.2.2]octan-2-ol-7,8-dicarboxylic acid dimethyl ester, X'5.9</b>
<b>2-Hydroxy-2,3-diphenylpropionic acid methyl ester, A'18.4</b>	<b>C<sub>16</sub>H<sub>19</sub>ClN<sub>2</sub></b>
<b>3-Phenyl-3-(<i>o</i>-methoxyphenyl)propionic acid, A'26.12</b>	<b>Chloropheniramine, A'17.12</b>
<b>C<sub>16</sub>H<sub>16</sub>O<sub>4</sub></b>	<b>C<sub>16</sub>H<sub>19</sub>ClO<sub>2</sub></b>
<b>Angolensin, Y5.6</b>	<b>6-Chloro-5-cyclohexylindanecarboxylic acid, A50.17</b>
<b>Eleutherin, Y2.3</b>	<b>C<sub>16</sub>H<sub>19</sub>N</b>
<b>Isoeleutherin, Y2.3</b>	<b>Bis(1-phenylethyl)amine, A'8.1</b>
<b>5,6-Benzobicyclo[2.2.2]oct-2-ene-7,8-dicarboxylic acid dimethyl ester, X'5.5</b>	<b>2-Amino-3,4-diphenylbutane, A'14.5</b>
<b>C<sub>16</sub>H<sub>16</sub>O<sub>6</sub></b>	<b>C<sub>16</sub>H<sub>19</sub>NO<sub>2</sub></b>
<b>Bostrychin, Y17.2</b>	<b>Elaeocarpine, K29.3</b>
<b>C<sub>16</sub>H<sub>16</sub>O<sub>8</sub></b>	<b>Isoelaelaeocarpine, K29.3</b>
<b>Tetralin-1,2,3,4-tetracarboxylic acid dimethyl ester, X'5.4</b>	<b>2-Benzoyloctahydro-6(2H)isoquinolines, A'32.18</b>
<b>C<sub>16</sub>H<sub>17</sub>NO<sub>3</sub></b>	<b>C<sub>16</sub>H<sub>19</sub>NO<sub>3</sub></b>
<b>Caranine, K6.3</b>	<b><math>\alpha</math>-Erythroidine, K7.6</b>
<b>Crinine, K6.10</b>	<b>Lunacrine, K'10.4</b>
<b>C<sub>16</sub>H<sub>17</sub>NO<sub>4</sub></b>	<b>2,3-Dimethyl-4-hydroxycyclohexane-2,3-dicarboxylic acid <i>N</i>-phenylimide, Y'9.10</b>
<b>Isolunine, K31.6</b>	<b>C<sub>16</sub>H<sub>19</sub>NO<sub>4</sub></b>
<b>Brunsvigine, K'1.4</b>	<b>Dihydrolycorine, K6.5</b>
<b>C<sub>16</sub>H<sub>18</sub></b>	<b>Balfourodine, K31.1</b>
<b>2,3-Diphenylbutane, A43.4</b>	<b>C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub></b>
<b>C<sub>16</sub>H<sub>18</sub>DNO<sub>2</sub></b>	<b>Febrifugine, K'10.13</b>
<b>Phthalimido deriv. D1.16</b>	<b>C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>6</sub></b>
<b>C<sub>16</sub>H<sub>18</sub>N<sub>2</sub></b>	<b>Mitomycin A, Y27.1</b>
<b>Lysergine, K17.2</b>	<b>Mitomycin B, Y'12.5</b>
<b>Agroclavine, K17.1</b>	<b>C<sub>16</sub>H<sub>19</sub>N<sub>2</sub>O<sub>P</sub></b>
<b>2-Phenylazo-2-phenylbutane, A40.13</b>	<b>Methylphenylpropylphosphine <i>p</i>-nitrophenyl-imine, Z5.13</b>
<b>C<sub>16</sub>H<sub>18</sub>N<sub>2</sub>O</b>	<b>C<sub>16</sub>H<sub>19</sub>P</b>
<b>Setoclavine, K17.5</b>	<b>Benzylphenylpropylphosphine, Z5.17</b>
<b>Elymoclavine, K17.1</b>	<b>C<sub>16</sub>H<sub>20</sub>IP</b>
<b>Lysergol, K17.2</b>	<b>Benzylethylmethylphenylphosphonium iodide, Z6.1</b>
<b>C<sub>16</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub></b>	<b>C<sub>16</sub>H<sub>20</sub>N<sub>2</sub></b>
<b>Penniclavine, K17.5</b>	<b>Festuclavine, K17.3</b>
<b>C<sub>16</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub></b>	<b>Costaclavine, K17.3</b>
<b>Isopilosine, K'10.5</b>	<b>Pyroclavine, K17.3</b>
<b>C<sub>16</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S</b>	<b>3-Phenyl-3-(2-pyridyl)-1-dimethylaminopropane, A'17.12</b>
<b>Penicillin G, Y29.4</b>	<b>C<sub>16</sub>H<sub>20</sub>N<sub>2</sub>O</b>
<b>C<sub>16</sub>H<sub>18</sub>N<sub>2</sub>O<sub>5</sub>S</b>	<b>Chanoclavines, K17.4</b>
<b>Penicillin V, Y29.4</b>	

Readers who do not have the 2nd edition of Volume I, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- $C_{16}H_{20}O$   
3-Cyclohexyl-3-methylindan-1-one, A'40.2
- $C_{16}H_{20}O_2$   
4-Benzylidenecyclohexanecarboxylic acid ethyl ester, X'1.13
- $C_{16}H_{21}FeNO$   
2-Hydroxymethyl-11-dimethylamino[3]ferrocenophane, X'9.1
- $C_{16}H_{21}NO_2$   
Isoelaecarpiline, K29.2  
Propanolol, A'12.16
- $C_{16}H_{21}NO_3$   
Dihydro- $\beta$ -erythroidine, K7.5  
Annotinine, K25.6
- $C_{16}H_{22}$   
1-Cyclohexyl-1-methylindane, A'40.1
- $C_{16}H_{22}N_2$   
Lycodine, K25.3
- $C_{16}H_{22}O_3$   
Metabolite LL-N313 $\xi$ , T'14.5
- $C_{16}H_{22}O_4$   
2-Isopropyl-2-(3,4-dimethoxyphenyl)pent-4-enoic acid, A'36.1
- $C_{16}H_{22}O_9$   
Sweroside, T13.6
- $C_{16}H_{23}IOS$   
Menthyl *p*-iodobenzenesulphinate, Z7.7
- $C_{16}H_{23}NO$   
Fawcettidine, K25.7
- $C_{16}H_{23}NO_2$   
Serratidine, K25.1  
 $\alpha$ -Prodine, A'18.1
- $C_{16}H_{23}NO_3$   
Annotinine deriv., K25.9  
 $\beta$ -Tetrahydro- $\beta$ -erythroidine, K7.3
- $C_{16}H_{23}N_3O$   
1-(Phenethylcarbamoyl)-2-methyl-3,3-pentamethylenediaziridine, Z'2.1
- $C_{16}H_{24}$   
2-Cyclohexyl-2-phenylbutane, A56.9
- $C_{16}H_{24}N_2O_2$   
Base R, K'7.8
- $C_{16}H_{24}O$   
12-Hydroxy[10]paracyclophane, X'7.4
- $C_{16}H_{24}O_2$   
Menthyl benzenesulphinate, Z8.9
- $C_{16}H_{24}O_3$   
Brefeldin A, Y14.7
- $C_{16}H_{24}O_4$   
Acrostalic acid, T'12.7  
Compounds from abscisic acid, T'17.12
- $C_{16}H_{24}O_5$   
Ovalicine, T31.3
- $C_{16}H_{24}O_{11}$   
Monotropein, T15.10
- $C_{16}H_{25}BrO_5$   
Rearranged ovalicine deriv., T31.4
- $C_{16}H_{25}NO$   
Lycopodine, K25.2  
Lycopecurine, K26.1
- $C_{16}H_{25}NOS$   
Sulphides from thionuphlutines, K'7.2, K'7.5
- $C_{16}H_{25}NO_2$   
Fawcettimine, K25.10  
Annofoline, K25.5  
Dendrobine, K31.12
- $C_{16}H_{25}NO_3$   
Serratinine, K25.8  
Annopodine, K26.2
- $C_{16}H_{25}O_2P$   
Menthyl phenylphosphinates, Z4.11, Z4.12
- $C_{16}H_{26}$   
Bis(4-methylcyclohexylidene)ethane, X'1.11
- $C_{16}H_{26}BrP$   
Cyclohexylmethylphenylphosphonium bromide, Z5.20
- $C_{16}H_{26}N_2$   
Flabellidine, K25.3
- $C_{16}H_{26}N_2O_4S$   
Penicillin K, Y29.4
- $C_{16}H_{26}O$   
3-Cyclohexyl-3-phenylbutan-2-one, A56.14
- $C_{16}H_{26}O_2$   
Norambreinolide, T34.1
- $C_{16}H_{26}O_3$   
Juvabione, T2.16  
Epijuvalione, T2.1
- $C_{16}H_{26}O_7$   
Picrocrocin, T'18.3
- $C_{16}H_{28}O$   
Drimenol, T32.3
- $C_{16}H_{30}O$   
Muscone, A32.14
- $C_{16}H_{32}O$   
2,5-Decamethylenecyclohexanol, X'7.7
- $C_{16}H_{34}OS$   
Bis-(2-octyl)sulphoxide, A'6.10
- $C_{16}H_{34}O_2S$   
Bis-(2-octyl)sulphone, A'6.10
- $C_{16}H_{34}S$   
Bis-(2-octyl)sulphide, A'6.10

## $C_{17}$

- $C_{17}H_8O_8$   
Spirobipthalide-6,6'-dicarboxylic acid, X'3.3
- $C_{17}H_{12}$   
1,1'-Spirobiindene, X'2.1
- $C_{17}H_{12}O_2$   
1,1'-Spirobiindanone, X'2.2  
2,2'-Spirobiindanone, X'2.12

## Formulae Index

---

9,10-Dihydro-9,10-ethenoanthracene-1-carboxylic acid, <b>X'4.6</b>	1-Methyl-2,2-diphenylcyclopropanecarboxylic acid, <b>A54.14</b>
Dibenzobicyclo[3.3.1]nona-2,6-diene-4,8-dione, <b>X'11.3</b>	[2.2]-Paracyclophane carboxylic acid, <b>X'6.7</b>
$C_{17}H_{12}O_3$ 2-(2-Carboxybenzyl)-2-hydroxy-1-indanone lactone, <b>A'29.9</b>	[2.2]-Metacyclophane-4-carboxylic acid, <b>X'6.6</b>
$C_{17}H_{12}O_6$ Aflatoxin <b>B</b> <sub>1</sub> , <b>Y13.2</b>	1,2-Diphenylcyclopropanecarboxylic acid methyl esters, <b>A'27.6, A'27.11</b>
$C_{17}H_{12}O_7$ Aflatoxin <b>G</b> <sub>1</sub> , <b>Y13.1</b>	1-Methoxy-2,2-diphenylcyclopropanecarboxaldehyde, <b>A'27.17</b>
$C_{17}H_{13}ClO_3$ 2-Chloro-2-(2-carboxybenzyl)-1-indanone, <b>A'29.10</b>	1-Phenylindane-1-acetic acid, <b>A40.6</b>
$C_{17}H_{14}$ 2,3-Dihydro-1,1'-spirobiindene, <b>X'2.1</b>	Sequirin D, <b>Y'10.6</b>
$C_{17}H_{14}O$ 1-Oxospiro-1,1'-biindan, <b>X'2.6</b>	$C_{17}H_{16}O_3$ 1-Methoxy-2,2-diphenylcyclopropanecarboxylic acid, <b>A'27.18</b>
$\alpha$ -Naphthylphenylmethanol, <b>A'8.2</b>	$C_{17}H_{16}O_4$ 4,4'-Dimethoxydalbergione, <b>Y4.9</b>
$C_{17}H_{14}OS$ $^{[16]O, ^{18}O]$ $\alpha$ -Naphthyl <i>p</i> -tolyl sulphoxide, <b>D'3.5</b>	Homopteroeparin, <b>Y3.11</b>
$C_{17}H_{14}O_2S$ $^{[16]O, ^{18}O]$ $\alpha$ -Naphthyl <i>p</i> -tolyl sulphone, <b>D'3.6</b>	2,4-Diphenylglutaric acid, <b>A'20.16</b>
$C_{17}H_{14}O_3$ 3-Phenyl-1-indanone-3-acetic acid, <b>X'2.5</b>	3,9-Dimethoxypterocarpan, <b>Y'1.6</b>
$C_{17}H_{14}O_5$ Pterocarpin, <b>Y3.8</b>	$C_{17}H_{16}O_5$ Quinone from dihydrohomopteroeparin, <b>Y3.9</b>
Pisatin, <b>Y3.12</b>	$C_{17}H_{16}O_6$ Mucroquinone, <b>Y3.6</b>
$C_{17}H_{15}As$ Methyl- $\beta$ -naphthylphenylarsine, <b>Z'2.9</b>	$C_{17}H_{16}OSi$ Methylnaphthylphenylsilanol, <b>Z1.16</b>
$C_{17}H_{15}AsS$ Methyl- $\beta$ -naphthylphenylarsine sulphide, <b>Z'2.6</b>	$C_{17}H_{16}Si$ Methylnaphthylphenylsilane, <b>Z1.8</b>
$C_{17}H_{15}BrSi$ Methylnaphthylphenylbromosilane, <b>Z1.4</b>	$C_{17}H_{17}ClO_6$ Griseofulvin, <b>Y17.5</b>
$C_{17}H_{15}ClGe$ Methylnaphthylphenylchlorogerme, <b>Z2.4</b>	$C_{17}H_{17}NO_2$ Bridged biphenyl, <b>X7.1</b>
$C_{17}H_{15}ClSi$ Methylnaphthylphenylchlorosilane, <b>Z1.11</b>	Apomorphine, <b>K4.8</b>
$C_{17}H_{15}FSi$ Methylnaphthylphenylfluorosilane, <b>Z1.12</b>	$C_{17}H_{17}NO_5$ Hippeastrine, <b>K6.2</b>
$C_{17}H_{15}OP$ Methylnaphthylphenylphosphine oxide, <b>Z4.16</b>	$C_{17}H_{18}$ 2-Methyl-[2.2]-paracyclophane, <b>X'7.9</b>
$C_{17}H_{15}P$ Methylnaphthylphenylphosphine, <b>Z5.4</b>	12-Methyl-[2.2]-metaparacyclophane, <b>X'7.11</b>
$C_{17}H_{16}$ 1,1'-Spirobiindan, <b>X'2.3</b>	$C_{17}H_{18}BrNO$ 2-( <i>p</i> -Bromophenyl)-3,4-dimethyl-5-phenyloxazolidine, <b>A21.17</b>
$C_{17}H_{16}Ge$ Methylnaphthylphenylgerme, <b>Z2.5</b>	$C_{17}H_{18}N_2$ Tröger's base, <b>X11.7</b>
$C_{17}H_{16}O$ Dimethyldibenz-1,3-cycloheptadien-6-one, <b>X5.3</b>	$C_{17}H_{18}N_2O$ 3-Hydroxymethyl-3-methyl-5,5-diphenylpyrazoline, <b>A'29.12</b>
Dibenzobicyclo[3.3.1]nona-2,6-diene, <b>X'11.4</b>	$C_{17}H_{18}O$ 1-Benzoyl-2-phenylbutane, <b>A42.17</b>
$C_{17}H_{16}O_2$ Hinokiresinol, <b>Y9.1</b>	$C_{17}H_{18}O_4$ Agatharesinol, <b>Y9.2</b>
	Dihydrohomopteroeparin, <b>Y3.10</b>
	Sugiresinol, <b>Y9.3</b>
	$C_{17}H_{18}O_5$ Melanoxin, <b>Y5.2</b>
	1-(3-hydroxy-4-methoxyphenyl)-2-(4-methoxy-2,5-benzoquinonyl)propane, <b>Y5.1</b>

Readers who do not have the 2nd edition of Volume I, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{17}H_{18}O_5$  continued  
 Sequirin B, Y9.3  
 Sequirin C, Y9.2
- $C_{17}H_{18}O_6$   
 5-Acetoxy-4,6-dimethoxy-6-*trans*-styryl-5,6-dihydropyran-2-one, Y'4.3
- $C_{17}H_{19}NO$   
 2-Benzamido-2-phenylbutane, A40.8  
 2-Benzamido-3-phenylbutanes, A49.16, A49.18
- $C_{17}H_{19}NO_3$   
 Buphanisine, K6.10  
 Morphine, K4.5  
 Coclaurine, K3.1
- $C_{17}H_{19}NO_4$   
 Crinamine, K6.11  
 Haemanthamine, K6.11  
 Isohaemanthamine, K6.12
- $C_{17}H_{19}NO_5$   
 Clivonine, K6.1  
 Haemanthidine, K6.7  
 6-Hydroxycrinamine, K6.7
- $C_{17}H_{19}N_3$   
 Brevicolline, K20.3
- $C_{17}H_{20}$   
 2,4-Diphenylpentane, A'20.17
- $C_{17}H_{20}AsClO_4$   
 Allylbenzylmethylphenylarsonium perchlorate, Z3.10
- $C_{17}H_{20}BrP$   
 Allylbenzylmethylphenylphosphonium bromide, Z5.15
- $C_{17}H_{20}N_2O$   
 Normacusine A, K11.2  
 1,2-Dihydro-3-hydroxymethyl-3-methyl-5,5-diphenylpyrazoline, A'29.12
- $C_{17}H_{20}N_2O_2$   
 Sarpagine, K11.2
- $C_{17}H_{20}O$   
 1,2-Diphenyl-2-methylbutan-1-ols, A56.2, A56.4  
 1,1-Diphenylpentan-2-ol, A'30.10
- $C_{17}H_{20}O_5$   
 Zeylanine, T20.16
- $C_{17}H_{21}BrO_3$   
 Bromogeigerin acetate, T21.1
- $C_{17}H_{21}NO$   
 2-Amino-2-methyl-4,4-diphenylbutan-1-ol, A'29.11  
 1,3-Diphenyl-3-dimethylaminopropan-1-ol, A'20.7
- $C_{17}H_{21}NO_2$   
 Linearisine, K3.14
- $C_{17}H_{21}NO_3$   
 Galanthamine, K6.9  
 Pluviine, K6.3
- $C_{17}H_{21}NO_4$   
 Cocaine, K28.6
- Hyoscine, K28.1  
 Cytochalasin degradation product, Y27.7  
 Compounds related to lunacridine, K'10.2
- $C_{17}H_{22}BrP$   
 Benzylmethylphenylpropylphosphonium bromide, Z3.5
- $C_{17}H_{22}OSi$   
 Mesitylmethoxymethylphenylsilane, Z'1.19
- $C_{17}H_{22}O_2$   
 Deoxypodocarpic acid, T33.4
- $C_{17}H_{22}O_3$   
 Podocarpic acid, T33.9
- $C_{17}H_{22}O_5$   
 Isotenulin, T24.6  
 Axivalin, T'9.2  
 Xanthumin, T24.10  
 Gaillardin, T24.2  
 Xanthinin, T24.11  
 Pyrethrosin, T21.12
- $C_{17}H_{22}O_6$   
 Isophotoartemisin acetate, T21.3
- $C_{17}H_{23}BrO_3$   
 Laurencin, Y'4.11
- $C_{17}H_{23}NO_2$   
 3-Dimethylamino-4-ethoxycarbonyl-4-phenylcyclohex-1-ene, A'40.13
- $C_{17}H_{23}NO_3$   
 Littorine, K28.8
- $C_{17}H_{23}NO_4$   
 Hyoscyamine, K28.2  
 Mesembrine, K20.5  
 Lycoramine, K6.9
- $C_{17}H_{23}NO_4$   
 Annotinine deriv., K25.4  
 Lunacridine, K'10.3
- $C_{17}H_{23}NO_5$   
 Balfourolone, K31.2
- $C_{17}H_{24}O$   
 Cyclohexyl-(1-methyl-1-phenylpropyl) ketone, A56.5  
 Falcarinol, A7.4  
 2-Cyclohexyl-2-phenylpentan-3-one, A56.19
- $C_{17}H_{24}O_2$   
 [10]Paracyclophane-12-carboxylic acid, X'7.1
- $C_{17}H_{24}O_{10}$   
 Verbenalin(cornin), T13.9  
 Secologanin, T13.10
- $C_{17}H_{24}O_{12}$   
 Piptoside, Y'2.5
- $C_{17}H_{25}IN_2$   
 4a-Trimethylammonioethyl-1,2,3,4-tetrahydro-4aH-carbazolium iodide, A'37.8
- $C_{17}H_{25}NO_2$   
 Tripmeperidine, A'18.5
- $C_{17}H_{25}NO_4$   
 Stemonine, K29.5

## Formulae Index

---

$C_{17}H_{26}N_2O$	$C_{17}H_{36}O$
Phenampromid, A13.5	Heptadecan-3-ol, A7.3
$C_{17}H_{26}O_2S$	$C_{17}H_{36}O_2$
Menthyl benzylsulphinate, D'3.7	Heptadecane-1,3-diol, A7.2
$C_{17}H_{26}O_3$	<b>C<sub>18</sub></b>
Ketone from epoxyfarnesol, T'18.10	$C_{18}H_{12}O_4$
$C_{17}H_{26}O_3S$	9,10-Dihydro-9-10-ethenoanthracene-1,5-dicarboxylic acid X'4.6
[ <sup>16</sup> O, <sup>18</sup> O] Menthyl phenylmethanesulphonate, D'3.8	$C_{18}H_{12}O_6$
Portentol, Y15.5	Sterigmatocystin, Y13.3
Botrydial, T'3.7	$C_{18}H_{13}NO_3$
$C_{17}H_{26}O_{10}$	3-Phthalimido-1-tetralone, A20.11
Loganin, T13.5	$C_{18}H_{14}O_2$
$C_{17}H_{26}O_2S$	4,5,6,10,11,12-Hexahydrodibenzo-[ef,kl]-heptalene-5,11-dione, X10.6
Menthyl <i>p</i> -toluenesulphinate, Z7.5	$C_{18}H_{14}O_3$
Menthyl benzylsulphinate, Z'5.5	2-(2-Carboxybenzyl)-2-hydroxy-1-tetralone lactone, A'29.3
$C_{17}H_{27}AsOS$	$C_{18}H_{14}O_4$
Menthyl methylphenylthioarsinates, Z'2.7, Z'2.8	9,10-Dihydro-9,10-ethanoanthracene-1,5-dicarboxylic acid, X'5.1
$C_{17}H_{27}NO_2$	9,10-Dihydro-9,10-ethanoanthracene-11,12-dicarboxylic acid, X'5.7
Stenine, K29.4	$C_{18}H_{15}ClO_3$
$C_{17}H_{27}NO_3$	2-Chloro-2-(2-carboxybenzyl)-1-tetralone, A'29.4
Nobilonine, K31.8	$C_{18}H_{15}NO_2$
$C_{17}H_{27}O_2P$	2-Phthalimidotetralin, A20.5
Menthyl methylphenylphosphinates, Z4.1, Z4.8	$C_{18}H_{16}Br_2Ge$
$C_{17}H_{27}O_2PS$	Dibromomethylmethylnaphthylphenylgermane, Z2.1
Menthyl <i>S</i> -methylphenylphosphonothioate, Z4.10	$C_{18}H_{16}Br_2Si$
$C_{17}H_{28}O_2$	Dibromomethylmethylnaphthylphenylsilane, Z1.7
Ambreinolide, T34.8	$C_{18}H_{16}GeO_2$
Litsenolide A <sub>1</sub> , Y'5.11	Methylnaphthylphenylcarboxygermane, Z2.9
$C_{17}H_{28}O_5$	$C_{18}H_{16}N_2O_8$
Dihydrobotrydial, T'3.8	Betanidin, K17.11
$C_{17}H_{29}NO$	$C_{18}H_{16}N_4O_2$
Victoxinine, K'9.5	3,6-Bis(1-hydroxy-1-phenylethyl)-1,2,3,4-tetrazine, A'13.13
$C_{17}H_{29}NO_3$	$C_{18}H_{16}O_3$
δ-Nobilonine; K'9.2	Marcumar, A'26.1
$C_{17}H_{29}NO_4$	3-Phenyl-1-indanone-3-acetic acid methyl ester, X'2.5
Dendrobine deriv., K31.11	2-Benzoyl-2-methoxycarbonylindan-1-one, X'2.10
$C_{17}H_{30}O_3$	$C_{18}H_{16}O_4$
Densipolic acid, A7.13	[2.2]Metacyclophane-4,4'-dicarboxylic acid, X'6.10
$C_{17}H_{30}O_5$	$C_{18}H_{16}O_5$
Botrydial lactone deriv., T'3.9	Ketone from wortmannin, T'15.13
$C_{17}H_{31}N_3O_2$	$C_{18}H_{16}O_7$
Palustrine, K'6.9	Usnic acid, Y'10.7
$C_{17}H_{32}O_4$	
3-Methylhexadecane-1,16-dioic acid, A32.10	
$C_{17}H_{34}O_2$	
14-Methylhexadecanoic acid, A31.1	
4,8,12-Trimethyltridecanoic acid methyl ester, T56.7	
$C_{17}H_{35}NO$	
1-Methyl-2-(1-hydroxyundecyl)piperidine, K'6.12	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_{18}H_{16}O_9$	$C_{18}H_{20}D_2$
Formylolivinic acid, Y16.2	[3,3- $^2H_2$ ]Bimesityl, D'3.14
$C_{18}H_{17}BBrO_4$	$C_{18}H_{20}N_2$
<i>N</i> -( <i>p</i> -bromophenyl)- $\alpha$ -D-ribopyranosylamine-2,4-phenylboronate, C3.4	Mianserin, A'10.3
$C_{18}H_{17}BrGe$	$C_{18}H_{20}N_2O$
Bromomethylmethylnaphthylphenylgermane, Z2.2	Eburnamonine, K16.2
$C_{18}H_{17}BrSi$	2,6-Diphenyl-1-methyl-4-piperidone oxime, X4.3
Bromomethylmethylnaphthylphenylsilane, Z1.9	Diazacycloheptane deriv., X4.4
$C_{18}H_{17}ClN_2O$	$C_{18}H_{20}N_4O_2$
3-Isopropyldemethyldiazepam, A'1.4	3,4-Dihydroxycyclohexane-1,2-dione phenylosazone, A16.22
$C_{18}H_{18}$	$C_{18}H_{20}O$
9,10-Dimethyl-9,10-dihydro-9,10-ethanoanthracene, X'5.6	2-Benzoyl-2-methyl-3-phenylbutane, A42.2
$C_{18}H_{18}Ge$	2-Benzoyl-3-methyl-2-phenylbutane, A'37.2
Ethylnaphthylphenylgermane, Z2.5	$C_{18}H_{20}O_3$
$C_{18}H_{18}GeO$	Gibberic acid, T35.16
Methoxymethylnaphthylphenylgermane, Z2.8	$C_{18}H_{20}O_3S$
$C_{18}H_{18}O_2$	2-Phenylcyclopentanol tosylate, A'30.3
11,12-Bis(hydroxymethyl)-9,10-dihydro-9,10-ethanoanthracene, X'5.6	$C_{18}H_{20}O_4$
5-Methyl[2.2]paracyclophane-2-carboxylic acid, X'7.6	Guaiaretic acid, A31.17
$C_{18}H_{18}O_3$	2,4-Bis( <i>p</i> -methoxyphenyl)-butyric acid, Y9.4
3-Carbomethoxymethyl-3-phenylindan-1-ol, X'2.8	$C_{18}H_{20}O_6$
2-Benzyl-2-methoxycarbonylindan-1-ols, X'2.9	Duartin, Y3.5
$C_{18}H_{18}O_5$	Byssochlamic acid, T58.6
Agrimonolide, Y2.11	Glaucanic acid, T58.5
2',4',7-Trimethoxyisoflavanone, Y'1.7	$C_{18}H_{20}O_7$
$C_{18}H_{18}O_7$	Glauconic acid, T58.5
Senepoxide, Y19.13	$C_{18}H_{20}O_8$
$C_{18}H_{18}O_8$	Inumakilactone, T38.10
Crotepoxyde, Y19.2	$C_{18}H_{21}NO_3$
$C_{18}H_{18}OSi$	6,7-Dimethoxy-4-( <i>p</i> -methoxyphenyl)-1,2,3,4-tetrahydroisoquinoline, K1.7
Methoxymethylnaphthylphenylsilane, Z1.15	Codeine, K4.5
$C_{18}H_{18}SSi$	Bulbocodine, K3.9
Naphthylphenylmethyl(methylthio)silane, Z'1.6	$C_{18}H_{21}NO_4$
$C_{18}H_{19}IO_8$	Homolycorine, K6.2
Crotepoxyde iodohydrin, Y19.1	Cephalotaxine, K'1.3
$C_{18}H_{19}NO_2$	$C_{18}H_{21}NO_5$
4,8-Dimethoxy-5,7,12,12a-tetrahydroisoindolo-[2,1-b]-isoquinoline, X4.9	Tazettine, K6.6
$C_{18}H_{19}NO_3$	Criwelline, K6.6
Erythraline, X7.1	6-Hydroxybuphanidrine, K6.13
Stepharine, K3.12	$C_{18}H_{22}N_2$
Morphothebaine, K4.7	Condyfoline, K12.11
Oripavine, K4.6	Tubifoline, K12.7
$C_{18}H_{20}$	$C_{18}H_{22}N_2O$
2,5-Dimethyl[2.2]paracyclophane, X'7.10	16-Des carbomethoxy-20-epiervatamine, K'4.19
$C_{18}H_{20}BrNO_2$	$C_{18}H_{22}O$
4,4'-Dimethoxy-1,1',3,3'-tetrahydrospiro[isodole-2,2'-isoindolium]bromide, X4.7	1,1-Diphenylhexan-2-ol, A'30.10
$C_{18}H_{20}ClN_3O_5S_2$	$C_{18}H_{22}O_2$
Sporidesmin, Y24.4	Hexoestrol, A45.8
	$C_{18}H_{22}O_3$
	1-(2,4-Dimethoxyphenyl)-2-( <i>p</i> -methoxyphenyl)-propane, Y5.5
	$C_{18}H_{22}O_5$
	Zearalenone, Y14.11

## Formulae Index

---

$C_{18}H_{22}O_{11}$		$C_{18}H_{30}$	
Asperuloside, T13.1		Perhydrotriphenylene, X10.8	
$C_{18}H_{23}N$		$C_{18}H_{30}O$	
3-Dimethylamino-1,1-diphenyl-2-methylpropane,		Prenylsolanone, T'10.12	
A31.6		$C_{18}H_{30}O_3$	
$C_{18}H_{23}NO$		$C_{18}$ Juvenile hormone, T58.8	
3-Dimethylamino-1,1-diphenyl-2-methylpropan-		$C_{18}H_{30}O_5$	
1-ol, A31.6		Dimorphecolic acid, A7.8	
4-Dimethylamino-2,4-diphenylbutan-2-ol, A'20.5		Ketone from hyperforin, Y'9.13	
$C_{18}H_{23}NO_4$		$C_{18}H_{32}O_2$	
Mesembrine precursor, K20.6		Laballenic acid, X1.5	
Lycorenine, K6.2		Chalmoogric acid, A36.8	
$C_{18}H_{23}NO_5$		$C_{18}H_{32}O_3$	
Narcissidine, K6.4		Coriolic acid, A7.12	
$C_{18}H_{23}NO_6$		$C_{18}H_{34}N_2O_6S$	
Swazine, K'8.1		Lincomycin, Y21.6	
$C_{18}H_{23}NO_7$		$C_{18}H_{34}O_3$	
Retusamine, K24.1		Ricinoleic acid, A7.7	
$C_{18}H_{23}N_2O$		$C_{18}H_{34}O_5$	
Hunteracine (cation), K14.8		9-Hydroxyoctadecanedioic acid, A7.9	
$C_{18}H_{24}BrNO_4S$		$C_{18}H_{35}NO_2$	
<i>N</i> -(3- <i>endo</i> -Bromo-2-oxo-9-norbornanesulphonyl)-		Cassine, K30.2	
-methyl- <i>p</i> -toluene-sulphoximide, Z8.3		$C_{18}H_{36}N_4O_{11}$	
$C_{18}H_{24}N_2$		Kanamycin A, C3.14	
Tubifoline deriv., K12.10		$C_{18}H_{36}O$	
16 <i>α</i> -Strychindole, K12.1		6,10,14-Trimethylpentadecan-2-one, T56.3	
3,3'-Diaminobimesityl, D'3.13		$C_{18}H_{36}O_3$	
$C_{18}H_{24}N_4O_7$		9-Hydroxyoctadecanoic acid, A7.1	
Butyl 2-carboxycyclohexyl ketone, DNP		12-Hydroxyoctadecanoic acid, A7.10	
deriv., Y14.4		13-Hydroxyoctadecanoic acid, A.7.11	
$C_{18}H_{24}O$		<b>C<sub>19</sub></b>	
Bokuchiol, A'36.13		$C_{19}H_{13}ClO_6$	
$C_{18}H_{24}O_2$		Austocystin A, Y'1.12	
Nimbiol, T33.13		$C_{19}H_{13}F$	
$C_{18}H_{24}O_2P_2$		1-Fluoro-12-methylbenzo-[c]-phenanthrene, X7.5	
1,2-Bis(ethylphenylphosphinyl)ethane, Z'4.8		$C_{19}H_{14}O_8$	
$C_{18}H_{24}O_4$		γ-Rhodomycinone, Y'10.8	
Fusamarin, Y2.7		$C_{19}H_{15}GeLi$	
$C_{18}H_{24}O_5$		Methylnaphthylphenylgermyllithium, Z2.10	
Streptolic acid, Y'11.8		$C_{19}H_{15}NO_3$	
$C_{18}H_{24}O_6$		6-Phthalimido-6,7,8,9-tetrahydro[5H]benzo-cyclohepten-5-one, A'10.6	
Tirandamycic acid, Y'11.7		$C_{19}H_{16}O_2$	
$C_{18}H_{25}NO_2$		5,5'-Dimethyl-2,2'-spirobiindan-1-one, X'2.11	
15,16-Dimethoxy- <i>cis</i> -5,6- erythrinan, K7.2		$C_{19}H_{16}O_4$	
$C_{18}H_{25}NO_6$		Warsarin, A'26.5	
Jacobine, K22.3		5,5-Dimethoxy-2,2'-spirobiindan-1-one, X'2.11	
$C_{18}H_{26}O_4$		$C_{19}H_{16}O_8$	
Trisporic acid C, Y19.10		α-Rhodomycinone, Y'10.8	
$C_{18}H_{28}O$		β-Rhodomycinone, Y'10.8	
Perhydrotriphenylene-2-one, X10.12		$C_{19}H_{17}FSi$	
Dinoraphidicolan-3-one, T'12.5		2-( <i>β</i> -Naphthyl)-2-fluoro-2-sila-1,2,3,4-tetrahydronaphthalene, Z'1.1	
$C_{18}H_{28}O_6$			
Acetyldehydroovalicine, T31.6			

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- $C_{19}H_{17}NO_5$   
13 $\beta$ -Hydroxystylopine, **K3.7**
- $C_{19}H_{18}BrN_3O_6$   
8,9-Diacetoxy-1-methyl-4-(*p*-bromophenyl)-2,4,6-triazatricyclo-[5.2.0.0<sup>4,6</sup>]undec-10-ene-3,5-dione, **A'21.6**
- $C_{19}H_{18}GeO_2$   
Ethynaphthylphenylcarboxygermane, **Z2.9**
- $C_{19}H_{18}OSi$   
Cyclic silane, **Z'1.11**
- $C_{19}H_{18}O_2Si$   
Methylnaphthylphenylacetoxysilane, **Z1.17**
- $C_{19}H_{18}O_3$   
3-(2-Phenylbutyl)-4-hydroxycoumarin, **A'26.3**
- $C_{19}H_{18}O_6$   
Atrovenetin, **Y12.1**  
Tri-*O*-methylpektogynone, **Y4.2**
- $C_{19}H_{18}O_9$   
Formylchromomycinoic acid, **Y16.1**  
Diacytlycanescins, **Y6.9**
- $C_{19}H_{18}Si$   
Allyl- $\alpha$ -naphthylphenylsilane, **Z'1.8**
- $C_{19}H_{19}NO_4$   
Bulbocapnine, **K4.9**  
Amurensine, **K1.4**
- $C_{19}H_{20}$   
5,5'-Dimethyl-2,2'-spirobiindane, **X'2.13**
- $C_{19}H_{20}Ge$   
Isopropynaphthylphenylgermane, **Z2.6**  
Ethylmethylnaphthylphenylgermane, **Z2.7**
- $C_{19}H_{20}N_2O$   
Meloscine, **K31.5**
- $C_{19}H_{20}NO_4P$   
Ethoxynaphthylphenylphosphonium nitrate, **Z4.17**
- $C_{19}H_{20}OSi$   
 $\alpha$ -Naphthylphenyl(3-hydroxypropyl)silane, **Z'1.5**
- $C_{19}H_{20}O_2$   
Hinokiresinol dimethyl ether, **Y9.1**  
5,5'-Dimethoxy-2,2'spirobiindane, **X'2.13**
- $C_{19}H_{20}O_4$   
Sugiresinone dimethyl ether, **Y9.5**  
Eriobrucinol, **T'5.12**
- $C_{19}H_{20}O_5$   
Nutallin, **Y1.3**  
Hydroxyeriobrucinol, **T'5.12**  
Teucvin, **T'13.9**  
Teucvidin, **T'13.10**
- $C_{19}H_{20}O_6$   
Coleone B, **T33.16**
- $C_{19}H_{20}Si$   
Ethylmethylnaphthylphenylsilane, **Z1.10**
- $C_{19}H_{21}ClN_2S$   
Octoclothepin, **A'10.2**
- $C_{19}H_{21}ClO_5$   
2-Chloro-5,7,3'4'-tetramethoxyisoflavan, **Y3.4**
- $C_{19}H_{21}NO_2$   
Nuciferine, **K3.13**  
Apomorphine dimethyl ether, **K4.8**
- $C_{19}H_{21}NO_3$   
Pronuciferine, **K3.12**  
Thebaine, **K4.6**
- $C_{19}H_{21}NO_4$   
Orientalinone, **K3.15**  
Salutaridine, **K4.4**  
Cryptostyline I, **K1.1**
- $C_{19}H_{21}NO_5$   
Macronine, **K6.8**
- $C_{19}H_{22}ClNO_2$   
Aposclerotioramine, **Y11.6**
- $C_{19}H_{22}N_2O$   
Cinchotoxine, **K8.8**  
Cinchonine, **K8.7**  
*epi*-Cinchonine, **K8.11**  
Cinchonidine, **K8.4**  
*epi*-Cinchonidine, **K8.1**
- $C_{19}H_{22}N_2O_2$   
Cupreine, **K8.4**  
Caracurine VII, **K12.5**
- $C_{19}H_{22}N_2O$   
16-Yohimbone, **K9.8**  
Rhazinilam, **K'4.10**
- $C_{19}H_{22}N_2O_4$   
2-Methylbutane-1,4-diol,bisphenyl-urethane, **A27.20**
- $C_{19}H_{22}O$   
2-(2-[2.2]Paracyclophanyl)propan-1-ols, **X'7.2**  
1-(2-[2.2]Paracyclophanyl)propan-2-ols, **X'7.5**
- $C_{19}H_{22}O_3$   
Gibberic acid, **T35.16**  
Acerogenin A, **Y'3.3**
- $C_{19}H_{22}O_4$   
Odoratin, **T53.7**  
Sugiresinol dimethyl ether, **Y9.3**
- $C_{19}H_{22}O_5$   
5,7,3',4'-Tetramethoxyisoflavan, **Y3.7**
- $C_{19}H_{22}O_6$   
Gibberellic acid, **T35.13**  
Antheridiogen-An, **T35.10**  
Catechin tetramethyl ether, **Y3.2**  
Molephantin, **T'9.13**
- $C_{19}H_{22}O_7$   
Nagilactone C, **T38.13**  
Diosbulbin C, **T'13.8**
- $C_{19}H_{22}O_8$   
Seneol, **Y19.12**
- $C_{19}H_{23}BrO_4$   
Methyl-6 $\alpha$ -bromo-12-methoxy-7-oxo-podocarpate, **T33.12**
- $C_{19}H_{23}NO_3$   
Schellhammericine, **K7.7**  
Schellhammeridine, **K7.8**

## Formulae Index

---

<b>Arme pavine, K3.8</b>	<b>C<sub>19</sub>H<sub>26</sub>O<sub>8</sub></b>
<b>C<sub>19</sub>H<sub>23</sub>NO<sub>4</sub></b>	<b>Wallichoside, Y'7.5</b>
<b>Salutaridinol I, K4.4</b>	<b>C<sub>19</sub>H<sub>26</sub>O<sub>12</sub></b>
<b>Sinomenine, K4.3</b>	<b>Daphylloside, T15.13</b>
<b>Schellhammerine, K7.7</b>	<b>C<sub>19</sub>H<sub>27</sub>NO</b>
<b>Orientaline, K3.10</b>	<b>Cyclazocine, Y20.1</b>
<b>C<sub>19</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub></b>	<b>C<sub>19</sub>H<sub>27</sub>NO<sub>3</sub></b>
<b>Ergonovine, K17.7</b>	<b>Protoemetine, K2.10</b>
<b>C<sub>19</sub>H<sub>23</sub>N<sub>3</sub>O<sub>4</sub>S</b>	<b>C<sub>19</sub>H<sub>28</sub>O</b>
<b>Hetacillin, Y29.1</b>	<b>A-norstach-15-ene-2-one, T35.2</b>
<b>C<sub>19</sub>H<sub>23</sub>O<sub>7</sub></b>	<b>C<sub>19</sub>H<sub>28</sub>O<sub>2</sub></b>
<b>Nagilactone deriv., T38.12</b>	<b>Epoxynorcafestanone, T36.7</b>
<b>C<sub>19</sub>H<sub>24</sub>ClNO<sub>6</sub></b>	<b>Testosterone, T32.13</b>
<b>Acutumine, K5.4</b>	<b>C<sub>19</sub>H<sub>28</sub>O<sub>4</sub></b>
<b>C<sub>19</sub>H<sub>24</sub>Cl<sub>2</sub>O<sub>7</sub></b>	<b>Columbin deriv., T38.6</b>
<b>Centaurepensin, T'9.11</b>	<b>Atractyligenin, T'14.4</b>
<b>C<sub>19</sub>H<sub>24</sub>N<sub>2</sub></b>	<b>C<sub>19</sub>H<sub>28</sub>O<sub>5</sub></b>
<b>Aspidofractinine, K14.3</b>	<b>Tricyclic ketone from steviol, T35.15</b>
<b>Ibogamine, K15.6</b>	<b>C<sub>19</sub>H<sub>29</sub>NO<sub>3</sub></b>
<b>Cleavamine, K15.2</b>	<b>Dihydroprotoemetine, K2.10</b>
<b>1,2-Dehydroaspidospermidine, K13.12</b>	<b>C<sub>19</sub>H<sub>29</sub>NO<sub>4</sub></b>
<b>C<sub>19</sub>H<sub>24</sub>N<sub>2</sub>O</b>	<b>Dendrine, K31.12</b>
<b>Cinchonamine, K8.12</b>	<b>C<sub>19</sub>H<sub>30</sub>O</b>
<b>Antirhine, K8.10</b>	<b>Ketone from cafestol, T36.13</b>
<b>Adenocarpine, K18.5</b>	<b>17-Norkauran-16-one, T36.1</b>
<b>Capuronidine, K15.5</b>	<b>Phyllocladene norketone, T36.6</b>
<b>C<sub>19</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub></b>	<b>5<math>\alpha</math>-Androstan-17-one, T27.13</b>
<b>Quinamine, K8.9</b>	<b>C<sub>19</sub>H<sub>30</sub>O<sub>2</sub></b>
<b>C<sub>19</sub>H<sub>24</sub>N<sub>2</sub>O<sub>3</sub></b>	<b>Perhydrotriphenylene-2-carboxylic acid, X10.9</b>
<b>Aspidodispermine K13.10</b>	<b>Colensenone, T34.3</b>
<b>C<sub>19</sub>H<sub>24</sub>O</b>	<b>C<sub>19</sub>H<sub>30</sub>O<sub>4</sub></b>
<b>3-(1-Methyl-2-hydroxyethyl)-4,4'-dimethylbibenzyl, X'7.3</b>	<b>Columbin deriv., T38.7</b>
<b>C<sub>19</sub>H<sub>24</sub>O<sub>4</sub></b>	<b>C<sub>19</sub>H<sub>31</sub>NO<sub>2</sub></b>
<b>Frank inol, Y'2.9</b>	<b>Samandarine, K'9.8</b>
<b>C<sub>19</sub>H<sub>24</sub>O<sub>5</sub></b>	<b>C<sub>19</sub>H<sub>31</sub>O<sub>2</sub>P</b>
<b>Gibberellin A<sub>4</sub>, T'11.10</b>	<b>Menthyl phenylpropylphosphinate, Z4.15</b>
<b>Gibberellin-A<sub>20</sub>, T'11.12</b>	<b>Menthyl isopropylphenylphosphinate, Z4.6</b>
<b>Gibberellin-A<sub>20</sub> rearrangement product, T'11. 9</b>	<b>C<sub>19</sub>H<sub>32</sub></b>
<b>C<sub>19</sub>H<sub>25</sub>NO</b>	<b>Hydrocarbon, K32.1</b>
<b>Histrionicotoxin, K26.9</b>	<b>5<math>\alpha</math>-Androstane, T43.3</b>
<b>C<sub>19</sub>H<sub>26</sub>N<sub>2</sub></b>	<b>ent-17-Noratisane, T'12.10</b>
<b>Dihydrocorynantheane, K2.11</b>	<b>C<sub>19</sub>H<sub>32</sub>O<sub>4</sub></b>
<b>Aspidospermidine, K13.8</b>	<b>Lichesterinic acid, A'12.6</b>
<b>Quebrachamine, K13.5</b>	<b>C<sub>19</sub>H<sub>34</sub></b>
<b>Indoloquinolizidine deriv., K16.3</b>	<b>Fichtelite, T32.8</b>
<b>C<sub>19</sub>H<sub>26</sub>N<sub>2</sub>O</b>	<b>C<sub>19</sub>H<sub>34</sub>O</b>
<b>Rhazidine, K13.9</b>	<b>Indanone deriv.,from Calciferol, T48.1</b>
<b>Capuronine, K15.6</b>	<b>C<sub>19</sub>H<sub>34</sub>O<sub>3</sub></b>
<b>C<sub>19</sub>H<sub>26</sub>O<sub>3</sub></b>	<b>Litsenolide C<sub>2</sub>, Y'5.13</b>
<b>Allethronyl trans-chrysanthemate, T17.8</b>	<b>C<sub>19</sub>H<sub>36</sub>N<sub>2</sub>O<sub>5</sub></b>
<b>C<sub>19</sub>H<sub>26</sub>O<sub>6</sub></b>	<b>Lipoxamycin, Y22.5</b>
<b>3-O-Benzyl-1,2-O-cyclohexylidene-<math>\alpha</math>-glucofuranose, X1.6</b>	<b>C<sub>19</sub>H<sub>36</sub>O<sub>3</sub></b>
	<b>Dihydrolitsenolide C<sub>2</sub>, Y'5.12</b>

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_{19}H_{36}O_4$	$C_{20}H_{20}O_4$
6,7-Diacetoxypentadecane, Y'4.7	Coleone F, T'12.8
$C_{19}H_{38}O$	$C_{20}H_{20}O_6$
Disparlure, Y'3.3	Matairesinol, Y7.8
$C_{19}H_{38}O_2$	$C_{20}H_{20}O_7$
10-Methyloctadecanoic acid, A32.1	Herqueinone, Y12.2
$C_{19}H_{38}O_3$	$C_{20}H_{21}NO_4$
9-Hydroxyoctadecanoic acid, methyl ester, A7.1	Bridged biphenyls from schellhammeridine, X7.2, X7.4 Kopsanone, K14.1
<b><math>C_{20}</math></b>	
$C_{20}H_{14}$	$C_{20}H_{21}NO_5$
1,1'-Binaphthyl, X6.7	Ophiocarpine, K3.7
$C_{20}H_{14}O$	$C_{20}H_{22}$
2-Hydroxy-1,1'binaphthyl, X6.3	9,10,11,12-Tetramethyl-9,10-ethanoanthracene, X'5.10
$C_{20}H_{14}O_2$	$C_{20}H_{22}BrP$
2,2'-Dihydroxy-1,1'-binaphthyl, X'4.1	Methylnaphthylphenylpropylphosphonium bromide, Z5.8
$C_{20}H_{16}N_2$	$C_{20}H_{22}N_2O_2$
1,5-Diaminotryptcene, X'4.7	Akuammicine, K12.8 Condylocarpine, K12.12
$C_{20}H_{16}N_2O_4$	$C_{20}H_{22}N_2O_3$
Camptothecin, K29.9	Perivine, K11.8 2,5-Bis(1-hydroxy-1-phenylpropyl)1,3,4-oxadiazolet, A'22.12
$C_{20}H_{16}N_4O_{13}$	Sewarine, K'4.11
2-Hydroxymethyl-3-hydroxytetrahydropyran bis- 3,5-dinitrobenzoate, Y15.3	$C_{20}H_{22}N_4O_2$
$C_{20}H_{17}LiGe$	3,6-Bis(1-hydroxy-1-phenylpropyl)-1,2,3,4-tetrazine, A'22.15
Ethylnaphthylphenylgermyllithium, Z2.10	$C_{20}H_{22}O$
$C_{20}H_{17}NO_5$	1-Hydroxy-1,2,3,4-tetrahydrobenzo-[2.2]- paracyclophane, X'7.8
Fumariline, K'1.10	$C_{20}H_{22}OSi$
$C_{20}H_{17}NO_6$	Methylnaphthylphenyl(3-hydroxypropyl) silane, Z'1.4
Corydalispirone, K'1.11	$C_{20}H_{22}O_2$
Biculluline, K3.11	9,10-Dimethyl-11,12-bis(hydroxymethyl)9,10- ethanoanthracene, X'5.10
$C_{20}H_{18}ClNO_6$	$C_{20}H_{22}O_3$
Ochratoxin A, Y2.8	Nafenopin, A52.14
$C_{20}H_{18}O$	$C_{20}H_{22}O_4$
1,2,2-Triphenylethanol, A23.7	9,10-Dihydro-3-hydroxy-4-methoxy-2,5,8-trime-thylphenanthrene-1-acetic acid, T53.14
$C_{20}H_{18}O_4$	$C_{20}H_{22}O_6$
9,10-Dihydro-9,10-Ethanoanthracene-11,12-dicarboxylic acid dimethyl ester, X'5.7	Columbin, T38.2 Isocolumbin, T38.1 Pinoresinol, Y7.7
$C_{20}H_{18}O_5$	$C_{20}H_{22}O_7$
Pillaronone, Y28.4	Palmarin, T38.4 Chasmanthin, T38.3
Tuberosin, Y'1.5	Jateorin, T38.2 Thujastandin, Y7.16
$C_{20}H_{19}N$	$C_{20}H_{22}O_9$
1,2,2-Triphenylethylamine, A23.3	3-Oxodihydroinumakilactone 15-acetate, T38.11
$C_{20}H_{19}NO$	Olivin, Y16.4
2-Amino-1,1,2-triphenylethanol, A'8.13	Cervicarcin, Y18.6
$C_{20}H_{19}NO_5$	
Chelidonine, K5.8	
$C_{20}H_{19}NO_6$	
Ochratoxin B, Y2.8	
Rhoeagenine, K1.10	
Ochrobirine, K'1.9	
$C_{20}H_{20}BrP$	
Allylmethylnaphthylphenylphosphonium bromide, Z5.3	
$C_{20}H_{20}N_2O$	
Nor-C-fluorocurarine, K12.3	

## Formulae Index

---

$C_{20}H_{22}O_{10}$	Ginkgolide D, <b>T40.11</b>
Plicatic acid, <b>Y7.13</b>	
$C_{20}H_{22}Si$	Ginkgolide C, <b>T40.11</b>
Isopropylmethylnaphthylphenylsilane, <b>Z'1.13</b>	
$C_{20}H_{23}NO_4$	$C_{20}H_{25}ClN_2O_4$
Cularine, <b>K5.6</b>	2,3-Diethyl-1,2,3,4-tetrahydro-12-methylindolo-(2,3-a)quinolizinium perchlorate, <b>K11.1</b>
$C_{20}H_{23}NO_5$	
Capaurimine, <b>K3.3</b>	$C_{20}H_{25}NO_2$
$C_{20}H_{23}N_3$	Spiradine A, <b>K32.7</b>
Dehydropiptanthine, <b>K'6.2</b>	$C_{20}H_{25}NO_3$
$C_{20}H_{24}ClNO_2$	Delnudine, <b>K33.7</b>
Tetrahydroisoquinoline deriv., <b>K2.4</b>	$\alpha$ -Methyldihydrothebaine, <b>K27.5</b>
$C_{20}H_{24}INO_4$	$C_{20}H_{25}NO_4$
Cryptaustoline iodide, <b>K5.7</b>	<i>N</i> -Norlaudanosine, <b>K3.5</b>
$C_{20}H_{24}N_2O$	Erythristemine, <b>K7.4</b>
Anhydrovobasindiol, <b>K11.10</b>	1-(4',5'-Dimethoxy-2-hydroxybenzyl)-7-methoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline, <b>K5.5</b>
$C_{20}H_{24}N_2O_2$	Cryptostyline II, <b>K1.1</b>
Quinine, <b>K8.4</b>	$C_{20}H_{26}Br_2O_3$
Epi-quinine, <b>K8.1</b>	Jatropheone dihydrobromide, <b>T41.2</b>
Quinidine, <b>K8.7</b>	$C_{20}H_{26}N_2$
Gardnerine, <b>K11.3</b>	Aristoteline, <b>K'4.5</b>
Epi-quinidine, <b>K8.11</b>	$C_{20}H_{26}N_2O$
Tubotaiwin, <b>K12.12</b>	<i>N</i> -(2-Benzylmethylamino)-propylpropionanilide, <b>A4.15</b>
Quinotoxine, <b>K8.8</b>	$C_{20}H_{26}N_2O_2$
$C_{20}H_{24}N_2O_4$	Ajmaline, <b>K11.5</b>
Compactinervine, <b>K13.6</b>	$C_{20}H_{26}O_3$
$C_{20}H_{24}N_4O_2$	Bertyadionol, <b>T'14.6</b>
1,2-Dihydro-3,6-bis(1-hydroxy-1-phenylpropyl)-1,2,3,4-tetrazine, <b>A'22.15</b>	Centrolobol, <b>Y'3.2</b>
4-Amino-3,5-bis(1-hydroxy-1-phenylpropyl)-1,2,4-triazole, <b>A'22.16</b>	$C_{20}H_{26}O_4$
$C_{20}H_{24}O_3$	Picrosalvin, <b>T33.15</b>
Jatropheone, <b>T41.1</b>	Fujenal, <b>T35.4</b>
Centrolobine, <b>Y'3.1</b>	7-(2-(2-Phenylethyl)-3-hydroxy-5-oxocyclopentenyl)-heptanoic acid, <b>T17.5</b>
$C_{20}H_{24}O_4$	$C_{20}H_{26}O_5$
7-(2- <i>trans</i> -Styryl-3-hydroxy-5-oxocyclopentenyl)-heptanoic acid, <b>T17.11</b>	1-(3,4-Dimethoxyphenyl)-2-(2,4,6-trimethoxyphenyl)-propane, <b>Y5.3</b>
$C_{20}H_{24}O_6$	Antibiotic LL-S491 $\beta$ , <b>T'13.4</b>
Glauconol, <b>T53.8</b>	$C_{20}H_{26}O_6$
Lariciresinol, <b>Y7.6</b>	Eupatoriopicrin, <b>T21.4</b>
Triptolide, <b>T'13.11</b>	Enmein, <b>T33.2</b>
$C_{20}H_{24}O_7$	1-(3,4-dimethoxyphenyl)-3-(2,4,6-trimethoxyphenyl) propan-2-ol, <b>Y3.2</b>
Euparotin, <b>T24.1</b>	3-(3,4-dimethoxyphenyl)-2-(2,4,6-trimethoxyphenyl) propan-1-ol, <b>Y5.3</b>
Olivil, <b>Y7.2</b>	$C_{20}H_{26}O_7$
Cycloolivil, <b>Y7.1</b>	Chaparrinone, <b>T53.13</b>
Tripdiolide, <b>T'13.11</b>	Gibberellin A <sub>13</sub> , <b>T'11.11</b>
Diosbulbin A, <b>T'13.8</b>	$C_{20}H_{27}IN_2O_2$
$C_{20}H_{24}O_8$	Hunterburnine $\beta$ -methiodide, <b>K8.6</b>
Capenicin, <b>T31.11</b>	$C_{20}H_{28}N_2$
$C_{20}H_{24}O_9$	Vallesamidine, <b>K13.1</b>
Plicatic acid, <b>Y7.13</b>	Diborneno[2,3-b;2',3'-e]pyrazine, <b>X'11.7</b>
Ginkgolide A, <b>T40.11</b>	
$C_{20}H_{24}O_{10}$	
Ginkgolide B, <b>T40.11</b>	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{20}H_{28}O_2$   
 Callitrisic acid, **T33.8**  
 Ketone from coleone F, **T'12.4**
- $C_{20}H_{28}O_3$   
 Hardwickiic acid, **T37.9**  
 Rosenonolactone, **T34.12**  
 Cinerin I, **T17.3**  
 Cafestol, **T36.9**  
 Solidagenone, **T37.4**  
 Royleanone, **T'12.2**  
 Voacapenic acid, **T'12.3**  
 Vinhaticoic acid, **T'12.3**
- $C_{20}H_{28}O_4$   
 Marrubiin, **T37.2**  
 Callicarpone, **T33.11**  
 Salvin, **T33.17**
- $C_{20}H_{28}O_5$   
 Gibberellin A<sub>14</sub>, **K35.17**  
 Ingenol, **T39.2**
- $C_{20}H_{28}O_6$   
 Oridonin, **T33.6**  
 Phorbol, **T39.4**  
 Liatrin diol deriv., **T30.7**
- $C_{20}H_{28}O_7$   
 Chaparrin, **T53.13**
- $C_{20}H_{29}BrO_2$   
 Sphaerococcenol A, **T'13.6**
- $C_{20}H_{29}ClN_2O_2$   
 Ochrosandwine (chloride), **K8.3**
- $C_{20}H_{30}$   
 Abietatriene, **T33.5**
- $C_{20}H_{30}O$   
 Ferruginol, **T33.5**  
 Totarol, **T32.4**  
 Sempervirol, **T'12.1**
- $C_{20}H_{30}O_2$   
 Neoabietic acid, **T32.11**  
 Levopimaric acid, **T32.11**  
 Palustric acid, **T32.11**  
 Abietic acid, **T32.11**  
 Pimamic acid, **T32.14**  
 Isopimamic acid, **T32.18**  
 Cyathin A<sub>2</sub>, **T'13.7**  
 Isoagatholactone, **T'14.2**  
 Sandaracopimamic acid, **T32.18**  
 Trachylobanic acid, **T35.6**
- $C_{20}H_{30}O_3$   
 Steviol, **T35.11**  
 Isosteviol, **Y35.12**  
 Petasin, **T23.14**  
 Leucothol A, **T'11.5**
- $C_{20}H_{30}O_4$   
 Eunicin, **T41.4**  
 Cassaic acid, **T39.9**  
 Kolavic acid, **T37.10**  
 Crassin, **T41.5**
- $C_{20}H_{30}O_5$   
 Prostaglandin-A<sub>2</sub>, **Y'8.6**  
 Leucothol D, **T'11.5**  
 Ketone from grayanotoxins, **T'11.1**  
 Sinulariolide, **T'10.10**
- $C_{20}H_{30}O_7$   
 Andrographolide, **T36.16**  
 Andrographolide deriv., **T36.15**
- $C_{20}H_{31}NO$   
 Thelepogine, **K31.7**
- $C_{20}H_{32}$   
 Cembrene, **T41.3**  
 Kaurene, **T33.7**  
 Rosenonolactone deriv., **T34.15**  
 Dolabradiene, **T34.13**  
 Rimuene, **T34.11**  
 Hibaene, **T35.1**  
 Isohibaine, **T32.17**  
 Phyllocladene, **T36.5**  
 Isophyllocladene, **T36.5**  
 Atisirene, **T32.12**  
 Cembrene A, **T'10.5**  
 Bornylidenebornanes, **X'11.6, X'11.8**
- $C_{20}H_{32}O$   
 Monogynol, **T35.9**  
 Mukulol, **T'10.6**  
 Pachydictyol A, **T'13.14**
- $C_{20}H_{32}O_2$   
 4-Hydroxythunberga-2,7,11-trien-6-one, **T'10.7**  
 8,11-Epoxy-8,11,12(20)-thunbergatrien-4-ol, **T'10.11**  
 Stemodinone, **T'13.5**
- $C_{20}H_{32}O_3$   
 Corymbol deriv., **T36.2**  
 Isocupressic acid, **T34.10**  
 Beyerol, **T35.5**  
 Sideritol, **T'12.11**  
 Grindelic acid, **T'14.3**
- $C_{20}H_{32}O_4$   
 Portulal, **T40.12**  
 Taxa-4(16),11-diene-5 $\alpha$ ,9 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -tetraol, **T40.8**
- $C_{20}H_{32}O_5$   
 Prostaglandin-F3 $\alpha$ , **Y'8.11**  
 Grayanotoxin II **T'11.2**
- $C_{20}H_{32}O_6$   
 Grayanol B **T'11.6**
- $C_{20}H_{33}N_3$   
 Panamine, **K'6.4**  
 Podopetaline, **K'6.7**
- $C_{20}H_{34}$   
 Kaurane, **T35.7**  
 Beyerane, **T35.8**  
 Stevane B, **T35.7**
- $C_{20}H_{34}O$   
 Manool, **T34.6**  
 13-Epimanool, **T34.7**

## Formulae Index

---

$C_{20}H_{34}O_2$	Manoyl oxide, <b>T34.2</b> Makulol, <b>T'10.6</b>	$C_{21}H_{20}Cl_2O_3$ 3-Phenoxybenzyl-3-(2,2-dichlorobenzyl)-2,2-dimethylcyclopropanecarboxylate, <b>A'35.9</b>
$C_{20}H_{34}O_2$	Torulosol, <b>T34.9</b> Allodevadarool, <b>T34.14</b> Eperuic acid, <b>T36.10</b> Stemarin, <b>T'13.12</b>	$C_{21}H_{20}O$ 1,1,2-Triphenylpropan-1-ol, <b>A'13.2</b> 1,1,1-Triphenylpropan-2-ol, <b>A'13.14</b>
$C_{20}H_{34}O_3$	Corymbol, <b>T36.3</b> Labdanolic acid deriv., <b>T36.12</b>	$C_{21}H_{20}O_{10}$ 5-Hydroxyvitexin, <b>C'1.11</b>
$C_{20}H_{34}O_4$	Aphidicolin, <b>T'12.6</b>	$C_{21}H_{21}NO_4$ Ochotensine, <b>K'1.7</b>
$C_{20}H_{34}O_5$	Prostaglandin E <sub>1</sub> , <b>Y'8.13</b> Lasiocoryin, <b>T'13.2</b>	$C_{21}H_{21}NO_5$ Epicorynolin, <b>K'1.5</b>
$C_{20}H_{34}O_6$	Grayanotoxin III, <b>T38.8</b>	$C_{21}H_{21}NO_6$ $\beta$ -Hydrastine, <b>K3.11</b> Rhoeadine, <b>K1.10</b> Isorhoeadine, <b>K1.2</b>
$C_{20}H_{35}Cl_3$	Manool deriv., <b>T34.5</b>	$C_{21}H_{21}N_3O_3$ Austamide, <b>K'5.10</b>
$C_{20}H_{35}N_3$	Templeteine, <b>K'6.1</b> Ormosamine, <b>K'6.3</b> Piptanthine, <b>K'6.6</b>	$C_{21}H_{22}ClNO_4$ Thalphenine chloride, <b>K'1.1</b>
$C_{20}H_{36}$	Abietane, <b>T33.1</b>	$C_{21}H_{22}N_2O_2$ Strychnine, <b>K12.6</b>
$C_{20}H_{36}O_2$	Sclareol, <b>T34.4</b>	$C_{21}H_{22}N_2O_3$ Vomilenin, <b>K11.4</b> Criocerine, <b>K'3.7</b>
$C_{20}H_{36}O_3$	Labdanolic acid, <b>T36.11</b>	$C_{21}H_{22}O_4$ Nic-10, <b>T'15.14</b>
$C_{20}H_{36}O_5$	Ligantrol, <b>T'1.4</b> Prostaglandin F1 $\beta$ , <b>Y'8.13</b>	$C_{21}H_{23}ClO_5$ Sclerotiorins, <b>Y11.7</b>
$C_{20}H_{37}BrO_2$	Concinndiol, <b>T'13.3</b>	$C_{21}H_{23}NO_5$ 2,3-Methylenedioxy-1,9,10-trimethoxytetrahydroberberine, <b>K3.7</b>
$C_{20}H_{38}O_2$	Prostanoic acid, <b>A'25.15</b>	$C_{21}H_{23}N_2O_3$ Serpentine (cation) <b>K9.10</b>
$C_{20}H_{38}O_3$	Lesquerolic acid, <b>A7.15</b>	$C_{21}H_{23}N_3O_3$ Brevianamide A, <b>K'5.9</b>
$C_{20}H_{40}O$	Phytol, <b>T56.9</b>	$C_{21}H_{24}$ 3,3,3',3'-Tetramethylbis-1,1'-spiroindane, <b>X'2.4</b>
$C_{20}H_{40}O_3$	14-Hydroxyeicosanoic acid, <b>A7.14</b>	$C_{21}H_{24}N_2O_2$ Catharanthine, <b>K15.3</b> Vindolinine, <b>K'3.6</b> Tabersonine, <b>K13.2</b>
<b>C<sub>21</sub></b>		
$C_{21}H_{12}Fe_2 N_2$	$C_{21}H_{24}N_2O_3$ Vobasine, <b>K11.8</b>	
$N,N'$ -Diferrocenylcarbodiimide, <b>X3.5</b>	Akuammidine, <b>K11.7</b>	
$C_{21}H_{19}NO$	Perakin, <b>K11.6</b>	
2-Phenethyl-3,3'-diphenyloxaziridine, <b>Z'2.2</b>	Macusine A, <b>K11.7</b>	
$C_{21}H_{20}$	Tetrahydroalstonine, <b>K9.6</b>	
1,1,2-Triphenylpropane, <b>A'13.2</b>	Ajmalicine, <b>K9.6</b>	
$C_{21}H_{20}Br_2O_3$	Minovincine, <b>K14.4</b>	
3-Phenoxybenzyl-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate, <b>A'35.9</b>	$C_{21}H_{24}N_2O_4$ Talbotine, <b>K16.6</b> Eburnaphylline, <b>K'3.3</b>	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

- $C_{21}H_{24}N_2O_4$  continued  
 Mitraphylline, **K9.3**  
 Voacarpine, **K11.9**  
 Isomitraphylline, **K9.3**
- $C_{21}H_{24}N_2S$   
 $N$ -Methyl- $N$ -phenyl- $N'$ -tosyl *p*-toluenesulphi-namide, **Z'6.4**
- $C_{21}H_{24}O_4$   
 Nitenin, **T57.1**
- $C_{21}H_{24}O_6$   
 Tinophyllone, **T37.4**
- $C_{21}H_{24}O_9$   
 Chromomycinone, **Y16.3**  
 Melampodin, **T'9.12**
- $C_{21}H_{24}O_{10}$   
 Neriaphin, **Y10.1**
- $C_{21}H_{24}OSi$   
*tert*-Butyloxymethylnaphthylphenylsilane, **Z1.15**
- $C_{21}H_{25}NO_4$   
 Norcoralydine, **K3.2**  
 Glaucone, **K3.4**  
 Argemonine, **K1.11**  
 Benzytetrahydroisoquinoline deriv., **K3.6**
- $C_{21}H_{25}NO_5$   
 Multifloramine, **K2.8**  
 $N$ -Formyldihydropavine methine, **K1.12**  
 Androcymbine, **K2.2**  
 Capaurine, **K3.3**
- $C_{21}H_{25}NO_6$   
 Base from rhoeagenine, **K1.5**
- $C_{21}H_{25}N_3O_3$   
 Tetrahydroaustamide, **K'5.7**
- $C_{21}H_{26}N_2O_2$   
 Retuline, **K13.3**  
 Vincadiformine, **K13.2**  
 Coronaridine, **K15.7**  
 Pseudocopsinine, **K'4.4**
- $C_{21}H_{26}N_2O_3$   
 $3$ -*Epi*- $\alpha$ -Yohimbine, **K9.7**  
 Yohimbine, **K9.9**  
 Vincamine, **K16.1**  
 Neblinine, **K13.7**  
 Dregamine, **K'4.7**  
 Taburnaemontanine, **K'4.7**  
 Ervatamine, **K'4.8**
- $C_{21}H_{26}N_2O_4$   
 Aspidodasyarpine, **K12.13**
- $C_{21}H_{26}N_2O_4S_2$   
 2,7-Diazaspiro-[4.4]-nonane, ditosyl deriv., **X4.8**
- $C_{21}H_{26}O_5$   
 Myricanol, **Y15.1**
- $C_{21}H_{26}O_6$   
 3,4-Dihydrotinophyllone, **T37.8**
- $C_{21}H_{27}NO$   
 Methadone, **A18.11**  
 Isomethadone, **A31.10**
- $C_{21}H_{27}NO_4$   
 Laudanosine, **K3.5**
- $C_{21}H_{27}NO_5$   
 Kreysiginine, **K5.2**  
 4-Demethylhasubanonine, **K5.1**  
 Tetrahydroisoquinoline deriv., **K2.5**  
 Alkaloid CC-2, **K'1.2**  
 Cryptostyline III, **K1.6**
- $C_{21}H_{28}N_2O$   
 $\alpha$ -Acetyl-7-ethyl-5-desethylaspidospermidine, **K15.4**
- $C_{21}H_{28}N_2O_2$   
 Illudol phenylhydrazone deriv., **T30.12**
- $C_{21}H_{28}O_2$   
 17-Acetyl-5 $\alpha$ -etiojerva-12,14,16-trien-3-ol, **K35.6**
- $C_{21}H_{28}O_2$   
*trans*-tetrahydrocannabinol, **T5.15**
- $C_{21}H_{28}O_3$   
 Pyrethrin I, **T17.3**
- $C_{21}H_{28}O_4$   
 Nitenin deriv., **T57.2**
- $C_{21}H_{28}O_5$   
 Cinerin II, **T17.1**
- $C_{21}H_{28}O_{12}$   
 Plumieride, **T16.1**
- $C_{21}H_{29}NO$   
 $\alpha$ -Isomethadol, **A31.15**  
 $\beta$ -Isomethadol, **A31.11**
- $C_{21}H_{29}NO_3$   
 Crepidine, **K'7.11**
- $C_{21}H_{30}O_2$   
 Cannabidiol, **T5.11**
- $C_{21}H_{30}O_3$   
 Jasmolin I, **T17.3**  
 Furospongin I, **T57.4**
- $C_{21}H_{30}O_5$   
 Isohumulones, **Y'9.1**  
 Humulone, **Y'9.5**
- $C_{21}H_{31}ClO_5$   
 Gutierolide, **T37.5**
- $C_{21}H_{32}O$   
 4,4-Dimethylandrostan-5-ene-7-one, **T26.19**
- $C_{21}H_{32}O_{15}$   
 Melittoside, **T15.11**
- $C_{21}H_{33}NO_2$   
 Himbacine, **K18.11**
- $C_{21}H_{33}NO_3$   
 Atisine deriv. **K32.6**
- $C_{21}H_{34}O_5$   
 Trisporic acid deriv. **Y19.9**
- $C_{21}H_{39}N_7O_{12}$   
 Streptomycin, **C3.15**
- $C_{21}H_{40}O_2$   
 Lactone from tocopherol, **T56.2**
- $C_{21}H_{41}N_5O_{11}$   
 Apramycin, **C1.7**

## Formulae Index

---

<b>C<sub>22</sub></b>	<b>C<sub>22</sub>H<sub>23</sub>NO<sub>4</sub></b> Ochotensimine, <b>K'1.7</b> <b>C<sub>22</sub>H<sub>23</sub>NO<sub>7</sub></b> α-Narcotine, <b>K3.11</b> <b>C<sub>22</sub>H<sub>24</sub>Ge</b> (1-Methylpropyl)-triphenylgermane, <b>Z1.2</b> <b>C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub></b> Kopsine, <b>K14.2</b> Vomicine, <b>K12.2</b> <b>C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub></b> Achromycin, <b>Y28.2</b> <b>C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>9</sub></b> Oxytetracycline, <b>Y28.2</b> <b>C<sub>22</sub>H<sub>24</sub>O<sub>6</sub></b> α-Conidendrin dimethyl ether, <b>Y7.11</b> α-Retrodendrin dimethyl ether, <b>Y7.12</b> <b>C<sub>22</sub>H<sub>24</sub>O<sub>9</sub>S</b> Pharbitic acid, <b>T'11.7</b> Pharbitic acid rearrangement product, <b>T'11.8</b> <b>C<sub>22</sub>H<sub>24</sub>Pb</b> (1-Methylpropyl)-triphenylplumbane, <b>Z1.2</b> <b>C<sub>22</sub>H<sub>24</sub>Si</b> (1-Methylpropyl)- triphenylsilane, <b>Z1.2</b> <b>C<sub>22</sub>H<sub>24</sub>Sn</b> (1-Methylpropyl)-triphenylstannane, <b>Z1.2</b> <b>C<sub>22</sub>H<sub>25</sub>NO<sub>6</sub></b> Oreodine, <b>K1.9</b> Glaudine, <b>K1.9</b> Epiglaudine, <b>K1.8</b> Colchicine, <b>K30.1</b> Methine bases from rhoeadine and isorhoeadine, <b>K1.3, K1.5</b> <b>C<sub>22</sub>H<sub>25</sub>NO<sub>8</sub></b> Pseurotin, <b>Y'12.9</b> <b>C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub></b> Prolyl-2-(1,1'-dimethylallyl)tryptophyldiketopiperazine, <b>K'5.6</b> <b>C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub></b> Corymine, <b>K14.6</b> Picraphylline, <b>K9.4</b> <b>C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub></b> Cuanzine, <b>K'3.9</b> Chitosenine rearrangement product, <b>K'4.2</b> <b>C<sub>22</sub>H<sub>26</sub>N<sub>4</sub></b> Calycanthine, <b>K26.7</b> Chimonanthine, <b>K26.8</b> <b>C<sub>22</sub>H<sub>26</sub>O<sub>3</sub></b> 2-Allyl-3,5-bis(benzyloxy)cyclopentanol, <b>Y'8.10</b> <b>C<sub>22</sub>H<sub>26</sub>O<sub>7</sub></b> Gmelinol, <b>Y7.4</b> Isogmelinol, <b>Y7.3</b> Neogmelinol, <b>Y7.3</b> Albofungin degradation product, <b>Y'11.5</b>
<b>C<sub>22</sub>H<sub>12</sub>S<sub>2</sub></b>	
Benzo-[d]-naphtho[1,2-d']-benzo-[1,2,-b;4,3-b']-dithiophene, <b>X'6.12</b>	
<b>C<sub>22</sub>H<sub>14</sub></b>	
[5]-helicene, <b>X'6.5</b>	
<b>C<sub>22</sub>H<sub>14</sub>O<sub>4</sub></b>	
1,1'-Binaphthyl-2,2'-dicarboxylic acid, <b>X6.5</b>	
<b>C<sub>22</sub>H<sub>14</sub>O<sub>4</sub></b>	
Triptycene-2,5-quinone-7-carboxylic acid methyl ester, <b>X'4.9</b>	
<b>C<sub>22</sub>H<sub>16</sub></b>	
9,10-Dihydrodibenzo[c,g]phenanthrene, <b>X'6.4</b>	
<b>C<sub>22</sub>H<sub>16</sub>Br<sub>2</sub></b>	
2,2'-Bis(bromomethyl)-1,1'-binaphthyl, <b>X6.11</b>	
8,8'-Bis(bromomethyl)-1,1'-binaphthyl, <b>X'4.2</b>	
<b>C<sub>22</sub>H<sub>18</sub></b>	
2,2'-Dimethyl-1,1'-binaphthyl, <b>X6.10</b>	
<b>C<sub>22</sub>H<sub>18</sub>O<sub>2</sub></b>	
1,12-Dimethylbenzo-[c]-phenanthrene-5-acetic acid, <b>X7.6</b>	
<b>C<sub>22</sub>H<sub>18</sub>O<sub>6</sub></b>	
2,2'-Dihydroxy-1,1'-binaphthyl-3,3'-dicarboxylic acid, dimethyl ester, <b>X6.6</b>	
<b>C<sub>22</sub>H<sub>19</sub>BrNO<sub>3</sub></b>	
1'-Cyano-3-phenoxybenzyl-2,2-dimethyl-3-(2,2-dibromovinyl)cyclopropanecarboxylate, <b>A'35.10</b>	
<b>C<sub>22</sub>H<sub>19</sub>DO</b>	
[3- <sup>2</sup> H]-1,1-Diphenyl-3-( <i>p</i> -methoxyphenyl)prop-1-ene, <b>D2.12</b>	
<b>C<sub>22</sub>H<sub>19</sub>F<sub>6</sub>NO</b>	
(2-Piperidyl)-(3,6-bistrifluoromethyl-9-phenanthryl)carbinols, <b>A'17.2</b>	
<b>C<sub>22</sub>H<sub>20</sub>N<sub>2</sub>O<sub>8</sub>S<sub>2</sub></b>	
Acetylaranotin, <b>Y24.5</b>	
<b>C<sub>22</sub>H<sub>20</sub>O<sub>7</sub></b>	
Austocystin B, <b>Y'1.11</b>	
<b>C<sub>22</sub>H<sub>21</sub>NO</b>	
1-Acetamido-1,2,2-triphenylethane, <b>A23.3</b>	
<b>C<sub>22</sub>H<sub>22</sub></b>	
1,1,2-Triphenylbutane, <b>A41.17</b>	
<b>C<sub>22</sub>H<sub>22</sub>O</b>	
1,1,2-Triphenylbutan-1-ol, <b>A41.18</b>	
<b>C<sub>22</sub>H<sub>22</sub>O<sub>8</sub></b>	
Podophyllotoxin, <b>Y7.15</b>	
Episteganol, <b>Y'10.5</b>	
<b>C<sub>22</sub>H<sub>22</sub>O<sub>10</sub></b>	
Trifolirhizin, <b>Y3.8</b>	
<b>C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>8</sub></b>	
Aureomycin, <b>Y28.2</b>	
<b>C<sub>22</sub>H<sub>23</sub>NO<sub>2</sub></b>	
2,5-Dimethoxy-7-dimethylaminotriptycene, <b>X'4.8</b>	

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

- $C_{22}H_{26}O_8$   
Liatrin A, **T30.4**
- $C_{22}H_{27}FeNO_2$   
2-(*p*-Methoxyphenyl)hydroxymethyl-*N,N*-dimethylferrocenylethylamine, **X'9.2**
- $C_{22}H_{27}NO_2$   
Lobeline, **K18.10**
- $C_{22}H_{27}NO_7$   
Tirandamycin, **Y11.6**
- $C_{22}H_{27}N_3O_8S$   
Griseoviridin, **Y'15.1**
- $C_{22}H_{27}N_7O$   
*Cypridina* luciferin, **Y20.6**
- $C_{22}H_{28}N_2O_2$   
Spermostrychnine, **K12.4**
- $C_{22}H_{28}N_2O_3$   
Haplocine, **K13.11**  
Corynantheidine, **K9.5**  
Corynantheine, **K8.14**
- $C_{22}H_{28}N_2O_4$   
Rhyncophylline, **K9.2**  
Corynoxine, **K9.1**  
*N*-Methyldihydrotalbotine, **K16.7**  
Aspidophytine, **K'2.11**
- $C_{22}H_{28}N_2O_6$   
Chitosenine, **K'4.3**
- $C_{22}H_{28}O$   
Layered cyclophane, **X'8.7**
- $C_{22}H_{28}O_4$   
Galbegin, **Y8.2**  
Galbulin, **Y8.1**
- $C_{22}H_{28}O_5$   
Pyrethrin II, **T17.1**
- $C_{22}H_{28}O_6$   
Lariciresinol dimethyl ether, **Y7.16**  
Isolariciresinol dimethyl ether, **Y7.10**
- $C_{22}H_{28}O_7$   
Eupacunin, **T24.12**  
Isodonol, **T33.3**  
Nepetaefolin, **T37.1**
- $C_{22}H_{29}NO_2$   
Propoxyphene, **A'18.2**
- $C_{22}H_{29}NO_4$   
Elemol *p*-nitrobenzoate, **T20.5**
- $C_{22}H_{29}NO_5$   
Stemofoline, **K29.10**
- $C_{22}H_{29}N_2O_4$   
Echitamine, **K14.7**
- $C_{22}H_{30}$   
2,3,4,5-Tetramethyl-3, 4-diphenylhexane, **A'19.12**
- $C_{22}H_{30}BrP$   
Benzylcyclohexylphenylphosphonium bromide, **Z5.18**
- $C_{22}H_{30}N_2$   
Azobis(3-methyl-2-phenyl-2-butane), **A'19.8**  
Azobis(2-methyl-3-phenyl-2-butane), **A'19.5**
- $C_{22}H_{30}N_2O_2$   
Aspidospermine, **K13.8**  
Vincaminoreine, **K13.4**
- $C_{22}H_{30}O_3$   
Siccanin, **T32.16**
- $C_{22}H_{30}O_4$   
Tauranin, **T36.8**  
Dihydroguaiaretic acid dimethyl ether, **A31.18**  
Cannabidiolic acid, **T5.11**
- $C_{22}H_{30}O_5$   
Jasmolin II, **T17.1**
- $C_{22}H_{30}O_6$   
Secoisolariciresinol, **Y7.9**
- $C_{22}H_{30}O_7$   
2,3-Di(3,4-dimethoxybenzyl)-butane-1,2,4-triol, **Y7.5**
- $C_{22}H_{31}NO_4$   
Pyroheteratisine, **K33.9**
- $C_{22}H_{32}Br_2O_5$   
Eupalmerin acetate dibromide, **T'10.13**
- $C_{22}H_{32}O_2$   
Sempervirol acetate, **T'12.1**
- $C_{22}H_{32}O_7$   
Cascarillin, **T39.10**
- $C_{22}H_{33}NO_2$   
Atisine, **K32.4**  
Garryfoline, **K32.8**  
Veatchine, **K32.8**  
4-Methyl-6-(2'-benzoyloxypentyl)quinolizidine, **K7.3**
- $C_{22}H_{33}NO_3$   
Atidine, **K32.3**  
Ajaconine, **K32.5**
- $C_{22}H_{33}NO_4$   
Tuberostemonine, **K29.1**
- $C_{22}H_{33}NO_5$   
Heteratisine, **K33.8**
- $C_{22}H_{34}$   
[8][8]Paracyclophane, **X'8.6**
- $C_{22}H_{34}O_2$   
11-Methoxyferruginol methyl ether, **T33.10**
- $C_{22}H_{34}O_3$   
Coleone B deriv., **T33.14**  
17 -Acetoxy-4 $\alpha$ -methyl-5 $\alpha$ -androstan-3-one, **T32.9**
- $C_{22}H_{34}O_5$   
Pleuromutilin, **T'13.15**
- $C_{22}H_{34}O_7$   
Ketone from leucothols, **T'11.4**
- $C_{22}H_{35}O_2P$   
Menthyl cyclohexylphenylphosphinate, **Z4.5**
- $C_{22}H_{36}O_2$   
Bisnor-5 $\alpha$ -cholanic acid, **T48.7**
- $C_{22}H_{36}O_7$   
Grayanotoxin I, **T'11.3**

## Formulae Index

---

### **C<sub>23</sub>**

- C<sub>23</sub>H<sub>16</sub>**  
3*H*-Cyclohepta-[2,1-a;3,4-a']dinaphthalene, **X'6.2**
- C<sub>23</sub>H<sub>16</sub>O**  
Dinaphthocycloheptadienone, **X6.2**
- C<sub>23</sub>H<sub>19</sub>NOS**  
1-(*p*-Tolyl)-3,5-diphenyl-1,2-thiazene oxide, **Z'6.10**
- C<sub>23</sub>H<sub>19</sub>NO<sub>4</sub>Si**  
Methylnaphthylphenyl-*p*-nitrobenzoyloxysilane, **Z1.17**
- C<sub>23</sub>H<sub>19</sub>OP**  
*o*-Methoxyphenylnaphthylphenylphosphine, **Z4.21**
- C<sub>23</sub>H<sub>19</sub>O<sub>2</sub>P**  
*o*-Methoxyphenylnaphthylphenylphosphine oxide, **Z4.20**
- C<sub>23</sub>H<sub>20</sub>FeO<sub>2</sub>Si**  
Organosilicon compound, **Z'1.10**
- C<sub>23</sub>H<sub>20</sub>O**  
2,2-Diphenyl-3-ethylindan-1-one, **A41.22**
- C<sub>23</sub>H<sub>20</sub>O<sub>4</sub>**  
1-Phenylpropane-1,2-diol, dibenzoate, **A21.1**
- C<sub>23</sub>H<sub>20</sub>O<sub>2</sub>Si**  
Methylnaphthylphenylbenzoyloxysilane, **Z1.17**
- C<sub>23</sub>H<sub>22</sub>O<sub>2</sub>**  
2,2,3-Triphenylpentanoic acid, **A41.21**
- C<sub>23</sub>H<sub>22</sub>O<sub>6</sub>**  
Rotenone, **Y1.4**
- C<sub>23</sub>H<sub>22</sub>O<sub>7</sub>**  
Austocystin C, **Y'1.11**
- C<sub>23</sub>H<sub>24</sub>O**  
2,2,3-Triphenylpentan-1-ol, **A41.20**
- C<sub>23</sub>H<sub>24</sub>O<sub>8</sub>**  
Wortmannin, **T'15.12**
- C<sub>23</sub>H<sub>24</sub>O<sub>9</sub>**  
Olivin deriv., **Y16.7**
- C<sub>23</sub>H<sub>25</sub>NO<sub>3</sub>**  
Antofine, **K'5.2**
- C<sub>23</sub>H<sub>26</sub>Br<sub>2</sub>O<sub>2</sub>**  
7,7'-Dibromo-6,6'-dihydroxy-3,3,3',3',5,5'-hexamethylbis-1,1'-spiroindane, **X'2.7**
- C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub>**  
Benzetimide, **A'40.17**
- C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>**  
Brucine, **K12.6**
- C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub>**  
Picraline, **K12.9**
- C<sub>23</sub>H<sub>26</sub>OSi**  
Cyclohexyloxymethylnaphthylphenylsilane, **Z1.15**
- C<sub>23</sub>H<sub>26</sub>O<sub>7</sub>**  
Isodesoxypodophyllotoxin, **Y7.14**

- C<sub>23</sub>H<sub>28</sub>N<sub>2</sub>O<sub>5</sub>**  
Gardneramine, **K'4.1**
- C<sub>23</sub>H<sub>28</sub>N<sub>2</sub>O<sub>6</sub>**  
Rauvoxinine, **K10.1**
- C<sub>23</sub>H<sub>28</sub>N<sub>4</sub>**  
Calycanthidine, **K26.8**
- C<sub>23</sub>H<sub>28</sub>O**  
Nonacyclic ketone, **X'11.2**
- C<sub>23</sub>H<sub>28</sub>O<sub>8</sub>**  
Di-*O*-methylidihydroxythujaplicatin methyl ether, **Y7.16**
- C<sub>23</sub>H<sub>28</sub>O<sub>11</sub>**  
Albiflorin, **T3.1**  
Paconiflorin, **T3.2**
- C<sub>23</sub>H<sub>29</sub>ClO<sub>5</sub>**  
Ascofuranone, **Y'4.12**
- C<sub>23</sub>H<sub>29</sub>NO<sub>2</sub>**  
Phenadoxone, **A18.14**
- C<sub>23</sub>H<sub>29</sub>NO<sub>3</sub>**  
Alopecurine, **K26.1**
- C<sub>23</sub>H<sub>30</sub>BrNO<sub>6</sub>**  
Myaconitine hydrobromide, **K33.10**
- C<sub>23</sub>H<sub>31</sub>NO<sub>6</sub>**  
Delphinine deriv., **K33.6**
- C<sub>23</sub>H<sub>34</sub>O<sub>3</sub>**  
3*β*-Acetoxy pregn-5-ene-20-one, **K34.3**  
3*β*-Acetoxy-4,4-dimethyl androst-5-en-7-one, **T'4.11**
- C<sub>23</sub>H<sub>34</sub>O<sub>4</sub>**  
Digitoxigenin, **T49.3**
- C<sub>23</sub>H<sub>34</sub>O<sub>7</sub>**  
Glaucarubin deriv., **T53.12**
- C<sub>23</sub>H<sub>35</sub>NO<sub>3</sub>**  
Garryfoline deriv., **K32.9**
- C<sub>23</sub>H<sub>36</sub>O<sub>3</sub>**  
Dehydrororoleanone trimethyl ether, **T33.10**
- C<sub>23</sub>H<sub>36</sub>O<sub>4</sub>**  
'Isopropylidene norketone', **T38.9**
- C<sub>23</sub>H<sub>36</sub>O<sub>7</sub>**  
Zearalenone deriv., **Y14.12**
- C<sub>23</sub>H<sub>37</sub>NO<sub>2</sub>**  
Methyl homosecodaphniphyllate, **K26.5**  
3*β*-Acetoxy-20*α*-aminopregn-5-ene, **K34.2**
- C<sub>23</sub>H<sub>37</sub>NO<sub>6</sub>**  
Lappaconine, **K33.11**
- C<sub>23</sub>H<sub>38</sub>O<sub>3</sub>**  
Rearranged taxane deriv., **T40.9**  
3*β*-Hydroxy-5*α*-norcholanic acid, **T48.7**
- C<sub>23</sub>H<sub>45</sub>N<sub>3</sub>O**  
Oncinotine, **K'6.11**

### **C<sub>24</sub>**

- C<sub>24</sub>H<sub>20</sub>**  
[2.2](2,6)Naphthalenophane, **X'6.1**

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_{24}H_{20}N_2O_{10}$		$C_{24}H_{33}NO_3S_2$
Kinamycin C, Y11.9		Menthyl <i>N</i> -tosyl <i>p</i> -toluenesulphimidates, Z'6.2, Z'6.3
$C_{24}H_{20}OSi$		$C_{24}H_{34}$
Benzoylmethylnaphthylphenylsilane, Z1.13		[8][8]Paracyclophane, X'8.6
$C_{24}H_{22}BrP$		$C_{24}H_{34}O_4$
Benzylmethylnaphthylphenylphosphonium bromide, Z5.8		Bufalin, T49.1
$C_{24}H_{22}OSi$		$C_{24}H_{34}O_7$
$\alpha$ -( $\alpha$ -Naphthylphenylmethylsilyl)benzyl alcohol, Z'1.2		Clerodin, T37.3 $\varepsilon$ -Caesalpin, T40.10
$C_{24}H_{22}O_7$		$C_{24}H_{35}NO_4$
Obtusifolin, Y'1.3		Lucidusculine, K32.2
$C_{24}H_{22}Si$		$C_{24}H_{35}NO_5$
Benzylmethylnaphthylphenylsilane, Z'1.9		Batrachotoxinin A, K36.9
$C_{24}H_{23}FeP$		$C_{24}H_{36}N_2O_9S$
1-Ethyl-2-(diphenylphosphino)ferrocene, X'9.3		Celesticetin, Y21.1
$C_{24}H_{24}O$		$C_{24}H_{38}$
3,3,4-Triphenylhexan-2-one, T41.12		[8][10]Paracyclophane, X'8.5
Layered cyclophane, X'8.1		$C_{24}H_{38}O_4$
$C_{24}H_{24}O_8$		$3\beta$ -Acetoxybisnorallocholanic acid, K34.4
Daunamycinone trimethyl ether, Y28.6		$C_{24}H_{39}NO_4$
$C_{24}H_{26}N_2O_{13}$		Cassaine, T39.9
Betanin, K17.11		$C_{24}H_{39}NO_6$
$C_{24}H_{26}N_2O_8S_2$		Des(oxymethylene)lycoctonine, K33.3
Bisdethiodi(methylthio)-acetylaranotin, Y24.8		$C_{24}H_{40}N_2$
$C_{24}H_{27}NO_4$		Conessine, K34.1
Tylophorine, K'5.2		$C_{24}H_{42}N_2O_4$
$C_{24}H_{28}FN_3O_2S$		Azimine, K30.4
3-[2-(8-Fluoro-2-methyl-10,11-dihydrodibenzo [b,f]thiepin-10-yl)-1-piperazinyl]ethyl-2- oxazolidinone, A'10.1		<b>C<sub>25</sub></b>
$C_{24}H_{28}O_7$		$C_{25}H_{18}N_2O_3S$
Andibenin, T'6.10		<i>N</i> -Phthalimido <i>p</i> -tolyl- $\alpha$ -naphthylsulphoxime, Z'8.15
$C_{24}H_{28}O_8$		$C_{25}H_{18}O_4$
Isopeulustrin, Y1.13		8,9-Dihydro[7H]cyclonona[1,2,3-de;4,5,6-d'e'] dinaphthaleno-8,8-dicarboxylic acid, X'4.3
$C_{24}H_{29}NO_4$		$C_{25}H_{20}Fe_2O_2$
Septicine, K'5.1		7,7'-Spirobis-[3]-ferrocenophane-6,6'-dione, X9.15
$C_{24}H_{30}$		$C_{25}H_{22}SiO$
Layered cyclophane, X'8.3		Phenyl triphenylsilyl carbinol, A'13.18
$C_{24}H_{30}N_4$		$C_{25}H_{24}Fe_2O_2$
Folicanthine, K26.8		7,7'-Spirobis[3]-ferrocenophane-6,6'-diol, X9.19
$C_{24}H_{30}O_4$		$C_{25}H_{24}SiO$
Farnesiferol A, T57.3		Methylnaphthylphenyl(1-hydroxy-1-phenylethyl) silane, Z1.6
Farnesiferol B, T57.5		$C_{25}H_{25}NO_5$
$C_{24}H_{30}O_7$		Photothebainehydroquinone, K4.10
Athamanthin, Y1.14		$C_{25}H_{26}BrN_5O_{13}$
$C_{24}H_{30}O_8$		Surugatoxin, Y'15.2
Barbatusin, T'13.1		$C_{25}H_{26}O_5$
$C_{24}H_{32}O_4$		Shamixanthone, Y'2.6
Scillarenin, T49.1		$C_{25}H_{26}O_6$
$C_{24}H_{32}O_5$		Tajixanthone, Y'2.3
Maleopimaric acid, T32.15		$C_{25}H_{26}O_7$
$C_{24}H_{32}O_6$		Cneorin-C, T'16.8
Blancoic acid, Y12.3		
$C_{24}H_{32}O_8$		
Neophorbol 13,20-diacetate, T39.3		

$C_{25}H_{27}NO_4$	Ancistrocladidine, K'2.2
	Ancistrocladinine, K'2.3
$C_{25}H_{28}O_2$	
	Lespein, Y'1.2
$C_{25}H_{28}O_5$	
	Pyronimbic acid, T53.4
$C_{25}H_{29}NO_4$	
	Ancistrocladine, K'2.4
$C_{25}H_{29}NO_5$	
	Decodine, K27.2
$C_{25}H_{31}N_3O_4$	
	Lunarine, K29.8
$C_{25}H_{33}NO_7$	
	Bundlin A, Y26.6
$C_{25}H_{34}O_4$	
	Fasciculatin, T'14.1
$C_{25}H_{35}NO_9$	
	Ryanodine, T58.1
$C_{25}H_{36}O_4$	
	Ophiobolin A, T41.6
	Cephalonic acid, T41.7
$C_{25}H_{36}O_6$	
	Papuanic acid, Y12.4
	Isopapauanic acid, Y12.4
$C_{25}H_{36}O_{10}$	
	Glaucarubin, T53.9
$C_{25}H_{37}NO_4$	
	Piericidin A, Y30.8
$C_{25}H_{38}O_2$	
	Retigeranic acid, T'13.13
$C_{25}H_{38}O_3$	
	Ophiobolin C, T41.8
$C_{25}H_{38}O_7$	
	Laserpitine, T25.13
$C_{25}H_{39}NO$	
	Cyclobuxosuffrine, K36.4
$C_{25}H_{40}O$	
	Ceroplastol I, T41.9
$C_{25}H_{41}NO_7$	
	Browniine, K33.4
	Lycoctonine, K33.4
$C_{25}H_{42}N_2O$	
	Cyclobuxine D, K36.3
$C_{25}H_{43}NO_7$	
	Methymycin, Y'14.4
$C_{25}H_{43}N_{13}O_{10}$	
	Viomycin, Y22.6
$C_{25}H_{44}O$	
	Geranylinalool, T3.12
$C_{25}H_{45}NO_9$	
	Pederin, Y20.4
	<b>C<sub>26</sub></b>
$C_{26}H_{15}Br$	
	2-Bromo[6]helicene, X'6.13
$C_{26}H_{16}$	
	[6]-Helicene, X'6.9
$C_{26}H_{18}O_4$	
	1,2;5,6-Dibenzo-9,10-dihydro-9,10-ethanoanthra-cene-11,12-dicarboxylic acid, X'5.11
$C_{26}H_{20}O_{13}$	
	Tetraacetoxydohistromin, Y13.6
$C_{26}H_{22}O$	
	1,2,2,2-Tetraphenylethanol, A'13.17
$C_{26}H_{24}O_8$	
	Daphnetoxin, T39.6
$C_{26}H_{24}O_{11}$	
	Olivin deriv., Y16.5
$C_{26}H_{24}OSi$	
	Silyl ether, Z1.3
$C_{26}H_{26}$	
	Triple-layered cyclophane, X'7.12
$C_{26}H_{26}Si$	
	Mesitylmethylnaphthylphenylsilane, Z'1.14
$C_{26}H_{27}NO_9$	
	Stephavanine, K5.3
$C_{26}H_{29}NO_4$	
	Ancistrocladidine, K'2.1
$C_{26}H_{30}O_7$	
	Obacunone, T52.9
$C_{26}H_{30}O_8$	
	Limonin, T52.8
$C_{26}H_{31}NO_4$	
	Lythrumine, K20.8
$C_{26}H_{31}NO_5$	
	Decinine, K27.4
	Decaline, K27.10
	Decamine, K27.7
	Vertaline, K27.8
$C_{26}H_{31}NO_6$	
	Lythridine, K27.1
$C_{26}H_{31}O_2P$	
	Menthyl naphthylphenylphosphinate, Z4.19
$C_{26}H_{32}N_2O_3S$	
	Cinchonamine tosyl deriv., K8.13
$C_{26}H_{32}O_7$	
	Angolensic acid, T52.2
$C_{26}H_{32}O_9$	
	Ichangin, T52.4
$C_{26}H_{33}NO_5$	
	Dihydroverticillatine, K27.3
$C_{26}H_{34}O_4$	
	Tridentoquinone, Y'10.9

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_{26}H_{34}O_9$	$C_{27}H_{35}NO_4$
Lumiphorbol triacetate, <b>T39.8</b>	Lythramine, <b>K20.9</b>
Isophorbol triacetate, <b>T39.5</b>	$C_{27}H_{35}NO_8$
$C_{26}H_{35}NO_4$	Bundlin B, <b>Y26.6</b>
19-Propylthevinol, <b>K4.2</b>	$C_{27}H_{35}NO_{12}$
Lythraniidine, <b>K20.10</b>	Ipecoside, <b>K2.9</b>
$C_{26}H_{36}N_2O_9$	$C_{27}H_{36}O_9$
Antimycin A <sub>3</sub> , <b>Y'15.3</b>	Simarolide, <b>T53.10</b>
$C_{26}H_{36}O_8$	$C_{27}H_{38}N_2O_4$
7-Hydroxylathyrol-3,5,7-triacetate, <b>T39.1</b>	Verapamil, <b>A'36.2</b>
$C_{26}H_{36}O_{12}$	$C_{27}H_{38}O_5$
Menthiafolin, <b>T13.7</b>	$3\beta$ -Acetoxyisobufalin methyl ester, <b>T49.2</b>
Foliamenthin, <b>T13.11</b>	$C_{27}H_{39}NO_2$
$C_{26}H_{38}O_5$	Veratramine, <b>K35.9</b>
Havanensisin, <b>T53.1</b>	$C_{27}H_{39}NO_3$
$C_{26}H_{38}O_{12}$	Jervine, <b>K35.7</b>
Jasminin, <b>T15.3</b>	Piperidine deriv. from decinine, <b>K27.6</b>
$C_{26}H_{41}NO_5$	$C_{27}H_{41}NO_3$
Delphisine, <b>K'9.7</b>	Veratrobazine, <b>K35.7</b>
$C_{26}H_{44}N_2$	$C_{27}H_{41}NO_4$
Buxenine G, <b>K36.5</b>	Veratrenone, <b>K'9.9</b>
$C_{26}H_{44}N_2O_2$	$C_{27}H_{42}O$
Buxidienine F, <b>T36.1</b>	Tachysterol III, <b>T.40.7</b>
Cyclobuxidine F, <b>K36.2</b>	$C_{27}H_{43}NO$
$C_{26}H_{46}N_2O_3$	Solanidine, <b>T49.4</b>
Dihydromicrophylline F, <b>K36.2</b>	$C_{27}H_{43}NO_2$
	Veralkamine, <b>T34.5</b>
$C_{27}$	Solasodine, <b>T49.7</b>
$C_{27}H_{24}N_2O_9$	$C_{27}H_{43}NO_3$
Albofungin, <b>Y'11.4</b>	Verticinone, <b>K35.5</b>
$C_{27}H_{26}BrP$	$C_{27}H_{43}NO_7$
Benzyl(diphenylmethyl)methylphenylphosphonium bromide, <b>Z6.6</b>	Zygadenine, <b>K35.3</b>
$C_{27}H_{29}NO_{10}$	$C_{27}H_{43}NO_8$
Daunomycin, <b>Y28.5</b>	Cevine, <b>K35.1</b>
$C_{27}H_{29}NO_{11}$	Germine, <b>K35.3</b>
Adriamycin, <b>Y28.5</b>	$C_{27}H_{43}NO_9$
$C_{27}H_{32}N_4O_8$	Protoverine, <b>K35.3</b>
Pyridomycin, <b>Y26.7</b>	$C_{27}H_{44}O$
$C_{27}H_{32}O_6$	Cholest-4-ene-3-one, <b>T23.17</b>
Deoxyandirobin, <b>T52.1</b>	$C_{27}H_{44}O_3$
$C_{27}H_{32}O_7$	Smilagenin, <b>T49.9</b>
Mexicanolide, <b>T52.7</b>	Sarsapogenin, <b>T49.6</b>
$C_{27}H_{33}N_3O_5$	$C_{27}H_{44}O_6$
Fomitremorgin B, <b>K'5.4</b>	Ponasterone A, <b>T48.9</b>
$C_{27}H_{34}N_2O_9$	Ecdysone, <b>T48.9</b>
Vincoside, <b>K2.12</b>	$C_{27}H_{44}O_7$
Isovincoside, <b>K2.12</b>	Crustecdysone, <b>T48.9</b>
$C_{27}H_{34}O_2Si$	$C_{27}H_{45}NO$
Naphthylphenylmenthoxymethoxysilane, <b>Z'1.17</b>	Solacongestidine, <b>K34.6</b>
$C_{27}H_{34}O_8$	5,6-Dihydrosolanidine, <b>T49.4</b>
Swietenolide, <b>T52.11</b>	$C_{27}H_{45}NO_2$
Veprisone, <b>T52.10</b>	Tomatidine, <b>T49.8</b>
Methyl ivorensate, <b>T52.3</b>	$C_{27}H_{46}$
Mahoganin, <b>T53.2</b>	Cholest-4-ene, <b>T32.10</b>
$C_{27}H_{34}O_9$	Cholest-5-ene, <b>T32.19</b>
Verrucarin A, <b>T31.1</b>	

## Formulae Index

---

$C_{27}H_{46}Br_2$	$C_{28}H_{48}O$
2 $\alpha$ ,3 $\beta$ -Dibromo-5 $\alpha$ -cholestane, <b>A18.16</b>	3,3-Dimethyl-A-norcholestan-2-one, <b>T35.3</b>
$C_{27}H_{46}N_2O_2$	$C_{28}H_{50}N_2O_4$
Cyclobuxoxazine, <b>K36.6</b>	Carpaine, <b>K30.3</b>
Solanocapsine, <b>K34.7</b>	$C_{28}H_{50}O_4$
$C_{27}H_{46}O$	Clavatol, <b>T44.11</b>
5 $\alpha$ -Cholestan-1-one, <b>T53.11</b>	<b>C<sub>29</sub></b>
5 $\beta$ -Cholestan-1-one, <b>T38.5</b>	$C_{29}H_{20}O_{11}$
5 $\alpha$ -Cholestan-2-one, <b>T36.14</b>	Purpurogenone, <b>Y17.3</b>
5 $\beta$ -Cholestan-3-one, <b>T35.14</b>	$C_{29}H_{22}O_{11}$
Cholesterol, <b>T46.7</b>	Duclauxin, <b>Y18.8</b>
5 $\alpha$ -Cholest-14-ene-3 $\beta$ -ol, <b>T46.3</b>	$C_{29}H_{24}BrP$
$C_{27}H_{48}N_2$	Biphenylmethylnaphthylphenylphosphonium
Cycloprobuxine C, <b>K36.7</b>	bromide, <b>Z5.5</b>
$C_{27}H_{48}O$	$C_{29}H_{34}BrNO_5$
5 $\alpha$ -Cholestan-7 $\beta$ -ol, <b>T46.6</b>	Isoquinoline deriv., <b>K2.1</b>
<b>C<sub>28</sub></b>	
$C_{28}H_{22}N_2$	$C_{29}H_{34}N_4$
1,2-Dimethyl-6,7-diphenyl[e,g][1,4]-diazocene, <b>X5.9</b>	Ochrolifuanine A, <b>K'3.5</b>
$C_{28}H_{27}ClO_7$	$C_{29}H_{35}NO_5$
Cervicarcin deriv., <b>Y18.6</b>	Cytochalasin A, <b>Y27.6</b>
$C_{28}H_{28}BrN_3O_3$	$C_{29}H_{36}O_{10}$
Quinine deriv., <b>K8.5, K8.2</b>	Taxol deriv., <b>T40.5</b>
$C_{28}H_{30}O_9$	Vertisporin, <b>T'6.14</b>
Physalin A, <b>T53.5</b>	$C_{29}H_{37}NO_5$
$C_{28}H_{30}O_{10}$	Cytochalasin B, <b>Y27.6</b>
Physalin B, <b>T53.6</b>	Lythrancepine II, <b>K20.11</b>
$C_{28}H_{30}O_{11}$	$C_{29}H_{37}NO_6$
Pillaromycin A, <b>Y28.3</b>	Lythrancine II, <b>K20.11</b>
$C_{28}H_{32}N_2O_{11}$	$C_{29}H_{37}N_3O_2$
Rubenine, <b>K'4.6</b>	Deoxytubulosine, <b>K2.7</b>
$C_{28}H_{33}NO_7$	$C_{29}H_{37}N_3O_3$
Cytochalasin E, <b>Y'12.3</b>	Tubulosine, <b>K2.7</b>
$C_{28}H_{34}O_7$	$C_{29}H_{38}N_2O_4$
Gedunin, <b>T52.5</b>	Ikarugamycin, <b>Y'13.8</b>
$C_{28}H_{34}O_{10}$	$C_{29}H_{38}O_4$
Gomisin D, <b>Y'10.1</b>	Pristimerin, <b>T45.11</b>
$C_{28}H_{37}NO_5$	$C_{29}H_{39}N_3O_2$
Lythrancine, <b>K20.10</b>	Echinulin, <b>K30.6</b>
$C_{28}H_{38}O_6$	$C_{29}H_{40}N_2O_4$
Withaferin A, <b>T48.10</b>	Emetine, <b>K2.6</b>
$C_{28}H_{38}O_7$	$C_{29}H_{40}O_4$
Bongrekic acid, <b>Y'3.5</b>	Jingullic acid, <b>T43.9</b>
$C_{28}H_{38}O_8$	Pristimerol, <b>T45.12</b>
Huratoxin, <b>T39.7</b>	$C_{29}H_{42}O_4$
$C_{28}H_{44}O$	Eupteleogenin, <b>T45.10</b>
Suprasterol II, <b>T48.5</b>	$C_{29}H_{42}O_5$
Ergocalciferol, <b>T48.4</b>	Antheridiol, <b>T'15.10</b>
Ergosterol, <b>T48.8</b>	$C_{29}H_{44}O_5$
$C_{28}H_{46}O_7$	Ceanothic acid, <b>T43.7</b>
Makisterone A, <b>T'16.5</b>	Eucosterol, <b>T'15.4</b>
	$C_{29}H_{47}NO_5$
	Solaphyllidine, <b>K36.8</b>
	Stigmasterol, <b>T48.6</b>

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

$C_{29}H_{48}O$	$C_{30}H_{32}O_6$
Lanost-7-en-3-one, T44.7	Crown ether, X'4.4
23-Demethylgorgosterol, T'16.2	
$C_{29}H_{48}O_2$	$C_{30}H_{36}O_9$
Ketohakonanol, T45.8	Nimbin, T53.3
Adipedatol, T45.5	
$C_{29}H_{48}O_3$	$C_{30}H_{37}NO_6$
9-Oxo-9,11-secogorgost-5-ene-3 $\beta$ ,11-diol, T'16.1	Zygosporin A, Y'12.6
$C_{29}H_{50}O$	Isozygosporin A, Y'12.6
4 $\alpha$ -Ethyl-5 $\alpha$ -cholestane-3-one, T36.17	$C_{30}H_{38}O_8$
Adiantol, T45.4	Chlorothricolide methyl ester, Y'13.1
Aplysterol, T'15.11	
$C_{29}H_{50}O_2$	$C_{30}H_{42}N_2O_2$
$\alpha$ -Tocopherol, T56.4	Thiobinupharidine, K'7.1
	Thionuphlutine B, K'7.4
<b>C<sub>30</sub></b>	
$C_{30}H_{18}$	$C_{30}H_{42}N_4O_2$
[7]-Helicene, X'6.3	Homaline, K30.5
$C_{30}H_{18}O_4$	$C_{30}H_{44}O_3$
2,2'-Dimethyl-1,1'-bisanthraquinonyl, X6.9	Flindissone lactone, K51.2
$C_{30}H_{20}$	$C_{30}H_{44}O_4$
9,10-Dihydrodinaphtho-2,3'-3,4';2'',3''-5,6-phenanthrene, X6.4	Lansic acid, T44.12
$C_{30}H_{20}N_4O_6$	$C_{30}H_{46}O_3$
Trichotomine, K'3.8	Ebelin lactone, T51.13
$C_{30}H_{22}$	$C_{30}H_{46}O_4$
2,2'-Dimethyl-1,1'-bianthryl, X6.8	Glycyrrhetic acid, T42.10
$C_{30}H_{22}Br_2O_{10}$	Melianone, T51.11
Dibromodehydrotetrahydrorugulosin, Y18.2	
$C_{30}H_{22}O_8$	$C_{30}H_{46}O_5$
Erythroaphin- <i>fb</i> , Y10.8	Melaleucic acid, T43.6
$C_{30}H_{22}O_{10}$	$C_{30}H_{47}NO_3$
Rugulosin, Y18.1	Secodaphniphylline, K26.6
$C_{30}H_{22}O_{12}$	$C_{30}H_{48}O$
Xanthomegnin, Y2.1	Hopenone I, T45.1
Luteoskyrin, Y18.1	Baurenone, T42.13
Rubroskyrin, Y18.3	Flavic-22(29)-en-3-one, T15.7
$C_{30}H_{24}O_9$	$C_{30}H_{48}O_2$
Chrysoaphin- <i>fb</i> , Y10.7	21-Oxoserrat-13-en-3 $\beta$ -ol, T44.4
$C_{30}H_{24}O_{10}$	Serratolone, T44.5
Flavoskyrin, Y'10.2	Nyctanthic acid, T43.2
$C_{30}H_{24}O_{11}$	$C_{30}H_{48}O_3$
Dehydrodicatechin A, Y3.13	Betulinic acid, T43.5
$C_{30}H_{26}GeO$	Bourjotinolone, T46.2
(Diphenylhydroxymethyl)methylnaphthylphenylgermane, Z2.11	Elemadienolic acid, T46.5
$C_{30}H_{26}O_{10}$	Oleanolic acid, T42.6
Xanthoaphin- <i>fb</i> , Y10.6	Ursolic acid, T42.9
$C_{30}H_{26}O_{14}$	$C_{30}H_{48}O_4$
Ergoflavin, Y17.6	Odoratone, T51.6
$C_{30}H_{28}N_6O_6S_4$	Retigeric acid, T'15.8
Chaetocin, Y24.6	Bacogenin-A <sub>1</sub> , T'15.3
Verticillin A, Y'11.1	$C_{30}H_{48}O_5$
$C_{30}H_{28}O_{12}$	Cimigenol, T51.12
Rhododactynaphin- <i>jc</i> -1, Y10.3	$C_{30}H_{48}O_7$
Xanthodactynaphin- <i>jc</i> -1, Y10.2	Platicodigenin, T45.9
	$C_{30}H_{49}NO_3$
	Daphneteijsmamine, K26.10
	$C_{30}H_{49}NO_{11}$
	Demycarosyleucomycin A <sub>3</sub> , Y25.6
	$C_{30}H_{50}$
	Fernene, T43.11
	Filcene, T44.2

## Formulae Index

---

$C_{30}H_{50}O_2$	Alnusene, <b>T42.14</b>
	Adianine, <b>T43.10</b>
	$\alpha$ -Lupene, <b>T43.5</b>
$C_{30}H_{50}Br_2O_2$	
	$3\beta$ -Acetoxy-7 $\alpha$ ,11 $\alpha$ -dibromolanostane-8 $\alpha$ ,9 $\alpha$ -epoxide, <b>T46.9</b>
$C_{30}H_{50}O$	
	Davalol, <b>T44.3</b>
	Lanost-7-en-3-one, <b>T44.7</b>
	Arborinol, <b>T45.7</b>
	Cycloartenol, <b>T50.2</b>
	Lanosterol, <b>T44.10</b>
	Tirucallol, <b>T46.5</b>
	Euphol, <b>T46.4</b>
	Baurenol, <b>T42.13</b>
	Friedelin, <b>T42.11</b>
	Isoursenol, <b>F42.8</b>
	$\alpha$ -Amyrin, <b>T42.9</b>
	$\beta$ -Amyrin, <b>T42.6</b>
	Presqualene alcohol, <b>T'14.7</b>
	Baccharis oxide, <b>T'16.7</b>
	Gorgosterol, <b>T50.13</b>
	Taraxerol, <b>T43.1</b>
	$\psi$ -Taraxasterol, <b>T43.4</b>
	Multiflorenol, <b>T42.3</b>
	Shionone, <b>T42.15</b>
	Filican-3-one, <b>T44.1</b>
$C_{30}H_{50}O_2$	
	Dipterocarpol, <b>T51.4</b>
	Betulin, <b>T43.5</b>
	$\alpha$ -Onocerin, <b>T44.8</b>
	$\beta$ -Onocerin, <b>T44.8</b>
	$\gamma$ -Onocerin, <b>T44.6</b>
	22 $\alpha$ -Hydroxystican-3-one, <b>T'15.6</b>
$C_{30}H_{50}O_3$	
	6-Oxoleucotylin, <b>T45.6</b>
$C_{30}H_{50}O_4$	
	Spergulagenin A, <b>T'15.2</b>
$C_{30}H_{50}O_5$	
	Alisol A, <b>T'15.5</b>
$C_{30}H_{51}BrO_3$	
	Betulafolienetriol deriv., <b>T51.10</b>
$C_{30}H_{52}$	
	Gammacerane, <b>T44.9</b>
	Oleanane, <b>T42.7</b>
	Hopane, <b>T45.2</b>
	Isohopane, <b>T45.2</b>
$C_{30}H_{52}O$	
	3 $\beta$ -Hydroxyprotost-13(17)-ene, <b>T50.9</b>
	Friedelinol, <b>T42.11</b>
	Tetrahymanol, <b>T44.9</b>
	Ambrein, <b>T42.1</b>
	Hydroxyhopane, <b>T'15.1</b>
$C_{30}H_{52}O_2$	
	Canaric acid, <b>T43.8</b>
	Zeorin, <b>T45.3</b>
	Dammarenediol I, <b>T51.7</b>
	Dammarenediol II, <b>T51.4</b>
	Alangidiol, <b>T45.13</b>
$C_{30}H_{52}O_3$	
	Betulafolienetriol, <b>T51.9</b>
	Ocotillol, <b>T51.5</b>
	Putranjic acid, <b>T'16.4</b>
	<b>C<sub>31+</sub></b>
$C_{31}H_{32}P_2O_2$	
	DIOP, <b>A24.9</b>
$C_{31}H_{40}N_4O_5$	
	Chaenorhine, <b>K'10.9</b>
$C_{31}H_{42}O_{12}$	
	Clerodendrin A, <b>T37.6</b>
$C_{31}H_{43}NO_7$	
	Anopterine, <b>K'9.6</b>
$C_{31}H_{44}O_4$	
	Tirucallol deriv., <b>T46.8</b>
$C_{31}H_{46}O_2$	
	Phylloquinone, <b>T56.5</b>
$C_{31}H_{47}NO_4$	
	Daphmacrine, <b>K26.4</b>
$C_{31}H_{48}O_3$	
	Cyclograndisolide, <b>T'15.9</b>
	Ambonic acid, <b>T50.3</b>
$C_{31}H_{48}O_6$	
	Fusidic acid, <b>T50.10</b>
$C_{31}H_{50}O_3$	
	Eburicoic acid, <b>T50.5</b>
$C_{31}H_{50}O_4$	
	Polyporenic acid A, <b>T50.7</b>
$C_{31}H_{52}O$	
	Isotirucallenol, <b>T51.1</b>
	Cycloeucalenol, <b>T50.1</b>
$C_{31}H_{52}O_2$	
	Taraxerol acetate, <b>T43.1</b>
$C_{32}H_{22}S_2$	
	Heterocyclic helicene-cyclophane, <b>X'6.11</b>
$C_{32}H_{38}N_2O_8$	
	Deserpidine, <b>K9.11</b>
$C_{32}H_{40}O_9$	
	Swietenine, <b>K52.12</b>
$C_{32}H_{42}O_{10}$	
	Khivorin, <b>T52.6</b>
$C_{32}H_{46}O_9$	
	Cucurbitacin A, <b>T50.6</b>
$C_{32}H_{48}O_7$	
	Isoleoleanolic acid dimethyl ester lactone, <b>T42.5</b>
$C_{32}H_{50}O_4$	
	Echinodol, <b>T50.8</b>

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.

## Formulae Index

---

$C_{33}H_{24}O_2$	$C_{36}H_{25}D$
2,3,2',3'-Bis( $\alpha$ -oxotetramethylene)-9,9'-spirobifluorene, <b>X11.1</b>	Helicene-cyclophane, <b>X'6.8</b>
$C_{33}H_{35}N_5O_5$	$C_{36}H_{34}N_2O_7$
Ergotamine, <b>K17.8</b>	Concentrine, <b>K'2.6</b>
$C_{33}H_{36}O_6$	$C_{36}H_{36}$
Tri- $\alpha$ -thymotide, <b>X'11.5</b>	Quadruple-layered cyclophane, <b>X'7.13</b>
$C_{33}H_{38}N_6$	$C_{36}H_{38}AsB$
Hodgkinsine, <b>K'3.4</b>	Allylmethylphenylpropylarsoniumtetraphenylborate, <b>Z3.7</b>
$C_{33}H_{39}BrO_{15}$	$C_{36}H_{38}O_{16}$
Paeniflorin deriv., <b>T'3.3</b>	Protoaphin- <i>b</i> , <b>Y10.4</b>
$C_{33}H_{40}N_2O_9$	$C_{36}H_{43}NO_{17}$
Reserpine, <b>K9.11</b>	Evonine, <b>K'9.10</b>
$C_{33}H_{41}NO_8$	$C_{36}H_{56}O_{12}$
Lythrancine IV, <b>K20.11</b>	Fusicoccin A, <b>T41.10</b>
$C_{33}H_{41}NO_{10}$	$C_{37}H_{32}O_2$
Demethanolaconitine, <b>K33.1</b>	[6,6]-Vespirone, <b>X11.2</b>
$C_{33}H_{45}NO_6$	$C_{37}H_{36}$
Veratramine deriv., <b>K35.10</b>	[6,6]-Vespirene, <b>X11.3</b>
$C_{33}H_{45}NO_9$	$C_{37}H_{40}BP$
Delphinine, <b>K33.5</b>	Allylmethylphenylpropylphosphonium tetraphenylborate, <b>Z5.7</b>
$C_{33}H_{46}N_4O_6$	$C_{37}H_{40}N_4O_7$
Stercobilin, <b>Y23.4</b>	Haplophytine, <b>K'2.8</b>
$C_{33}H_{50}O_8$	$C_{37}H_{42}Br_2N_4O_7$
Cephalosporin P <sub>1</sub> , <b>T50.11</b>	Haplophytine dihydrobromide, <b>K'2.7</b>
$C_{33}H_{56}O$	$C_{37}H_{43}NO_{13}$
Cycloneolitsin, <b>T50.4</b>	Tolpomycinone, <b>Y26.4</b>
$C_{34}H_{30}OSi_2$	$C_{37}H_{67}NO_{13}$
Disilyl ether, <b>Z1.14</b>	Erythromycin A, <b>Y25.4</b>
$C_{34}H_{30}SSi_2$	$C_{37}H_{72}O_5$
1,3-Di- $\alpha$ -naphthyl-1,3-diphenyl-1,3-diphenyldisilthiane, <b>Z1.7</b>	1,2-Dipalmitoylglycerol, <b>A15.4</b>
$C_{34}H_{31}Br_3O_{14}$	$C_{38}H_{34}O_{14}$
Rearranged eumitrin bromo-deriv., <b>Y10.4</b>	Julimycin BII, <b>Y18.4</b>
$C_{34}H_{34}O_{14}$	$C_{38}H_{42}N_2O_6$
Eumitrin B, <b>Y'10.3</b>	Tetrandrine, <b>K'1.8</b>
$C_{34}H_{46}ClN_3O_{10}$	$C_{38}H_{44}N_2O_6$
Maytansine, <b>Y'13.3</b>	Tubocurarine, <b>K'2.5</b>
$C_{34}H_{47}NO_{11}$	$C_{38}H_{44}O_8$
Aconitine, <b>K33.2</b>	Gambogic acid, <b>Y9.7</b>
$C_{34}H_{54}O_8$	$C_{38}H_{54}O_{12}$
Antibiotic X-537A, <b>Y11.2</b>	Datiscoside, <b>T'16.6</b>
$C_{34}H_{60}O_{10}$	$C_{38}H_{68}NO_9P$
Lysocellin, <b>Y'6.1</b>	Dimyristoyllecithin, <b>A15.5</b>
$C_{34}H_{70}NO_7P$	$C_{38}H_{78}NO_7P$
Dimyristoylcephalin, <b>A15.1</b>	Dipalmitoylcephalin, <b>A15.1</b>
$C_{35}H_{42}O_9$	$C_{39}H_{36}O_2$
Taxinine, <b>T40.1</b>	[7,7]-Vespirone, <b>X11.2</b>
$C_{35}H_{52}O_4$	$C_{39}H_{40}$
Hyperforin, <b>Y'9.12</b>	[7,7]-Vespirene, <b>X11.3</b>
$C_{35}H_6NO_{12}$	$C_{39}H_{47}NO_{15}$
Oleandomycin, <b>Y25.2</b>	Rifamycin Y, <b>Y26.1</b>
$C_{36}H_{24}P$	$C_{39}H_{48}N_2O_9$
Tris-2,2'-bisphenylenephosphorus(V)-ion, <b>X10.1</b>	Isokadamycin, <b>C'1.1</b>
	Kidamycin, <b>C'1.2</b>

## Formulae Index

---

$C_{39}H_{49}NO_{14}$	$C_{42}H_{58}O_6$
Rifamycin A, Y26.1	Fucoxanthin, T55.1
$C_{40}H_{49}NO_{14}$	$C_{42}H_{69}NO_{15}$
Streptoviral C, Y'14.2	Leucomycin A <sub>3</sub> , Y25.5
$C_{40}H_{51}NO_{14}$	$C_{42}H_{82}NO_9P$
Streptovaricin C, Y'14.3	Dipalmitoleyllecithin, A15.5
Atropisostreptovaricin C, Y'14.1	$C_{42}H_{86}NO_7P$
$C_{40}H_{56}$	Disteraroylcephalin, A15.1
α-Carotene, T54.10	$C_{43}H_{50}N_4O_6$
δ-Carotene, T54.12	Vobtusine, K'3.2
ε-Carotene, T54.9	$C_{43}H_{60}N_2O_{12}$
$C_{40}H_{56}O$	Mocimycin, Y'12.10
β,ε-Caroten-2-ol, T'17.10	$C_{44}H_{62}N_2O_{12}$
β,β-Caroten-2-ol, T'17.13	Antibiotic X-5108, Y'12.10
Aleuriaxanthin, T'18.6	$C_{45}H_{66}CoN_{10}O_8$
$C_{40}H_{56}O_2$	Cobyric acid, Y24.1
Semi-α-carotene, T54.11	$C_{45}H_{74}BNO_{15}$
Kryptocapsin, T55.4	Boromycin, Y27.2
Zeaxanthin, T'18.4	$C_{45}H_{78}O_{13}$
$C_{40}H_{56}O_3$	Antibiotic X-206, Y11.3
Capsanthin, T55.4	$C_{46}H_{56}N_4O_{10}$
$C_{40}H_{56}O_4$	Leurocristine, K15.1
Violaxanthin, T'17.2	$C_{46}H_{94}NO_9P$
$C_{40}H_{65}BO_{14}$	Distearoyllecithin, A15.5
Boromycin hydrolysis product, Y27.2	$C_{47}H_{51}NO_{14}$
$C_{40}H_{66}O_{10}$	Taxol, T40.4
Venturicidin B, Y'13.4	$C_{47}H_{73}NO_{17}$
$C_{40}H_{68}O_{10}$	Amphotericin B, Y26.3
Grisorixin, Y11.5	$C_{47}H_{78}O_{13}$
$C_{40}H_{68}O_{11}$	Antibiotic Ro21-6150, Y'6.3
Nigericin, Y11.1	$C_{48}H_{46}N_4O_4$
$C_{40}H_{78}O_8P$	Biphenyl-2,2',6,6'-tetracarboxylic acid tetra-α-phenylethylamides, X'4.10, X'4.11
Phosphatidylglycerol, A15.6	$C_{48}H_{84}O_{14}$
$C_{41}H_{35}FeOPSi$	Alborixin, Y'6.4
Mixed organoiron-organosilicon compounds, Z'1.15, Z'1.16	$C_{49}H_{84}O_{17}$
$C_{41}H_{40}O_2$	Antibiotic A-204A, Y'6.2
[8,8]-Vespirone, X11.2	$C_{50}H_{63}ClO_{16}$
$C_{41}H_{42}AsB$	Chlorothricin, Y'13.2
Benzylmethylphenylpropylarsonium tetraphenylborate, Z3.9	$C_{50}H_{76}O_4$
$C_{41}H_{42}BN$	Bacterioruberin, T'18.12
Benzylmethylphenylpropylammonium tetraphenylborate, Z3.2	$C_{55}H_{74}MgN_4O_6$
$C_{41}H_{44}$	Bacteriochlorophyll <i>a</i> , Y23.2
[8,8]-Vespirene, X11.3	$C_{55}H_{72}MgN_4O_5$
$C_{41}H_{52}O_{17}$	Chlorophyll <i>a</i> , Y23.1
Utilin, T52.12	$C_{56}H_{40}O_{12}$
$C_{41}H_{67}NO_{11}$	Hopeaphenol, Y15.5
Venturicidin A, Y'13.4	$C_{63}H_{87}CoN_{13}O_{15}P$
$C_{41}H_{80}O_5$	Vitamin B <sub>12</sub> monocarboxylic acid, Y24.2
1,2-Distearoylglycerol, A15.4	$C_{63}H_{88}CoN_{14}O_{14}P$
$C_{42}H_{44}N_4O_5$	Vitamin B <sub>12</sub> , Y24.2
Serpentine, K'3.1	Neovitamin B <sub>12</sub> , Y24.2
	$C_{81}H_{158}C_{17}P_2$
	Cardiolipin, A15.2

Readers who do not have the 2nd edition of Volume 1, and only have the 1st edition, should refer to the index of the 1st edition for authors and compounds mentioned in that volume.