

JOURNAL OF THE CHEMICAL SOCIETY

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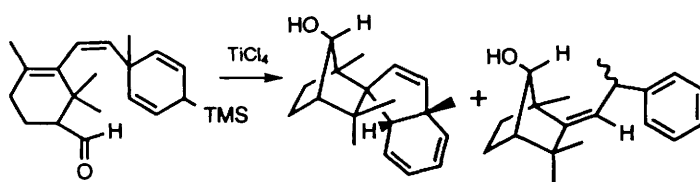
Organic and Bio-organic Chemistry

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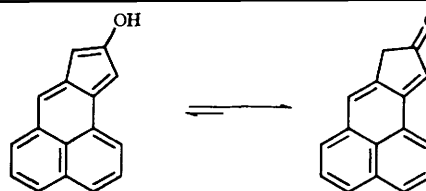
Perkin Communications

2811 Assembly of bicyclo[2.2.1]heptane derivatives by two types of domino reaction

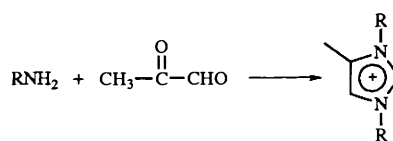
Masataka Ihara, Shuichi Suzuki, Yuji Tokunaga and Keiichiro Fukumoto

**2813 Cyclopenta[*a*]phenalen-9(8*H*)-one: an extended phenalenone system**

Yoshikazu Sugihara, Reiko Hashimoto, Hitoshi Fujita, Noritaka Abe, Hiromasa Yamamoto, Takashi Sugimura and Ichiro Murata

Cyclopenta[*a*]phenalen-9(8*H*)-one, a keto form of cyclopenta[*a*]phenalen-9-ol, is exclusively in an extended phenalenone form**2817 Characterization of an imidazolium compound formed by reaction of methylglyoxal and *N*^α-hippuryllysine**

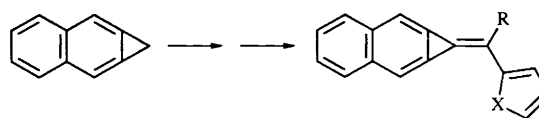
Elisabeth Brinkmann, Kevin J. Wells-Knecht, Suzanne R. Thorpe and John W. Baynes

 $\text{RNH}_2 = N^\alpha\text{-hippuryllysine}$

Keynote Article

2819 **Studies in the cycloproparene series: heterocyclic substituted methylenecyclopropa[*b*]naphthalenes**

Brian Halton, Mark J. Cooney, Tim W. Davey, Grant S. Forman, Qi Lu, Roland Boese, Dieter Bläser and Andreas H. Maulitz



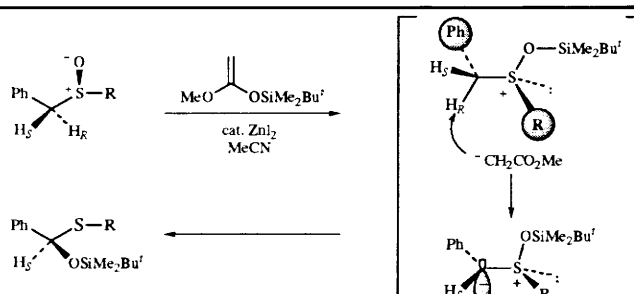
R = H or heterocycle; X = S, O, or NMe

The first 6 π 5-atom and 6 π 6-atom heterocyclic derivatives of a methylenecycloproparene are reported

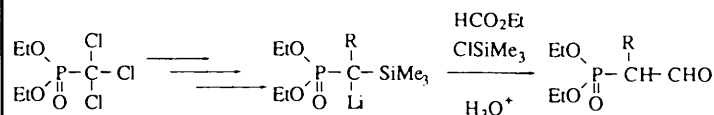
Articles

2829 **Mechanistic studies of a Pummerer-type reaction in acyclic and rigid cyclic sulfoxides induced by *O*-silylated ketene acetals**

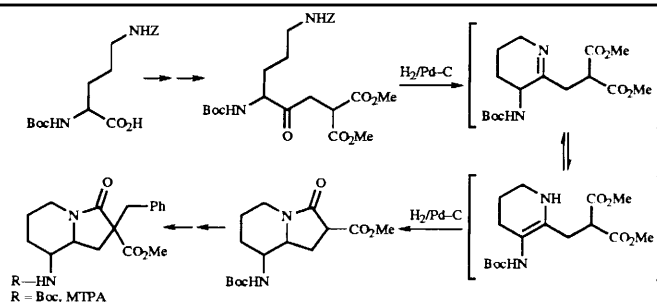
Yasuyuki Kita, Norio Shibata, Naoki Yoshida, Noriyuki Kawano, Chino Fujimori, Naoki Yoshikawa and Shigekazu Fujita

2835 **New route to 1-formylalkylphosphonates using diethyl trichloromethylphosphonate as precursor**

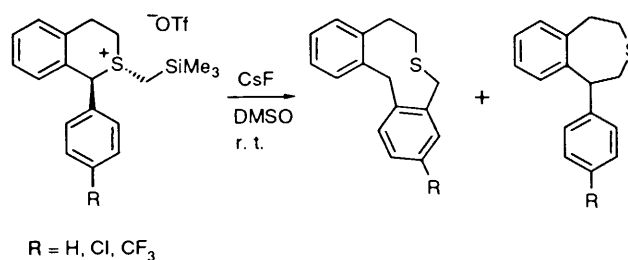
Yannick Zanella, Sylvie Berté-Verrando, Rachel Dizière and Philippe Savignac

2839 **Stereochemical and mechanistic studies on the formation of the 3-oxoindolizidine skeleton from ornithine derivatives**

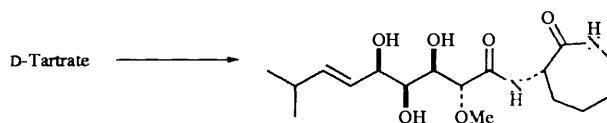
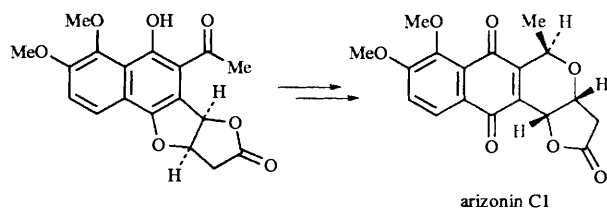
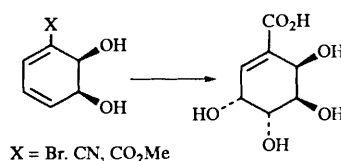
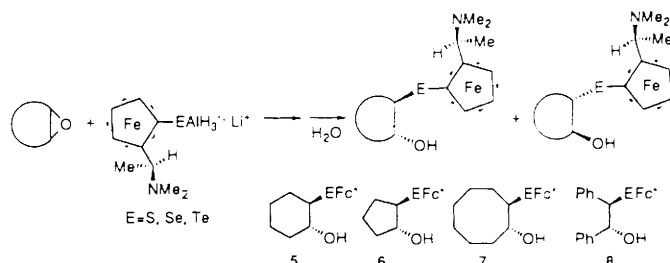
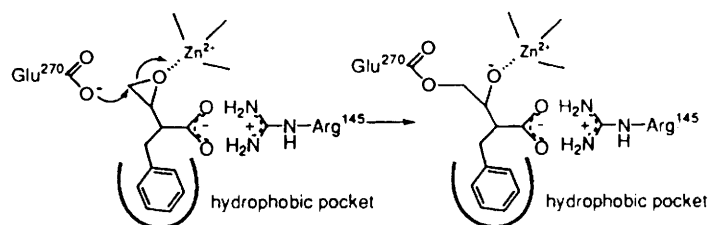
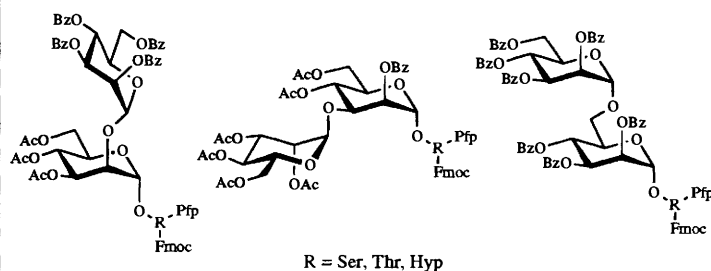
M^a José Domínguez, M^a Teresa García-López, Rosario Herranz, Mercedes Martín-Martínez and Rosario González-Muñiz

2845 **Rearrangement of 1-phenyl-3,4-dihydro-1*H*-2-benzothiopyranium 2-methylides**

Toru Tanzawa, Naohiro Shirai, Yoshiro Sato, Keiichiro Hatano and Yukihisa Kurono

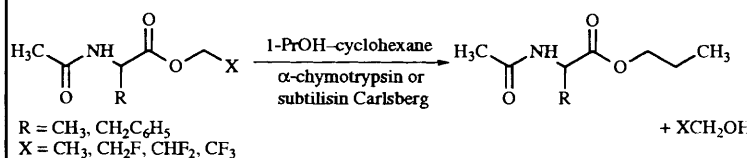


R = H, Cl, CF₃

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Hans Paulsen and Klaus Bock

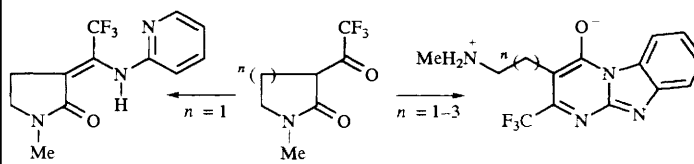
2899 **Activity and enantioselectivity of serine proteases in transesterification reactions in organic media**

Jaap Broos, Johan F. J. Engbersen, Inna K. Sakodinskaya, Willem Verboom and David N. Reinhoudt



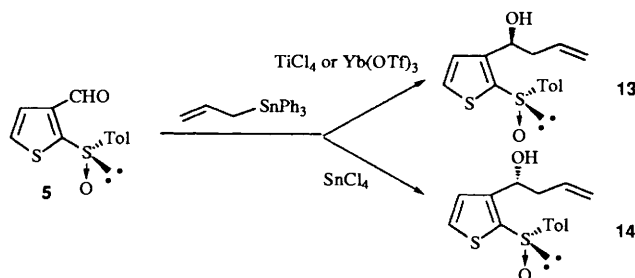
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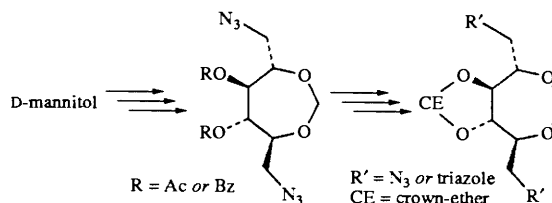
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Yoshitsugu Arai, Atsuko Suzuki, Tsutomu Masuda, Yukio Masaki and Motoo Shiro



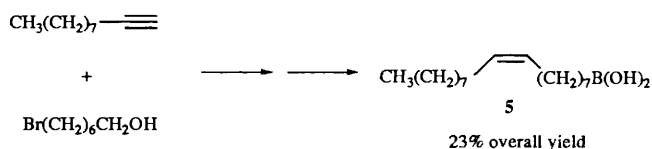
2919 **trans-Fused crown ethers from 2,5-O-methylene-D-mannitol: synthesis, X-ray diffraction structure and full nuclear magnetic resonance spectroscopic data of 1,6-diazido-1,6-dideoxy-2,5-O-methylene-3,4-O-naphthalene-2,3-diylbis(oxyethyleneoxy-ethylene)-D-mannitol and 3,4-di-O-acetyl-1,6-diazido-1,6-dideoxy-2,5-O-methylene-D-mannitol**

Mostafa Nazhaoui, Jean-Pierre A. Joly, Bertrand J. Jean-Claude, Valerio Del Duca, André Aubry and (in part) Mohammed Boubouh



2927 **(Z)-Heptadec-8-enylboronic acid: a potential lipase inhibitor**

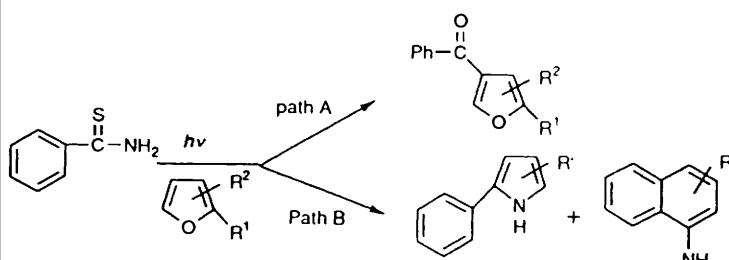
Valeri Martichonok and J. Bryan Jones



The boronic acid isostere **5** of oleic acid has been prepared as a potential transition-state inhibitor of lipases

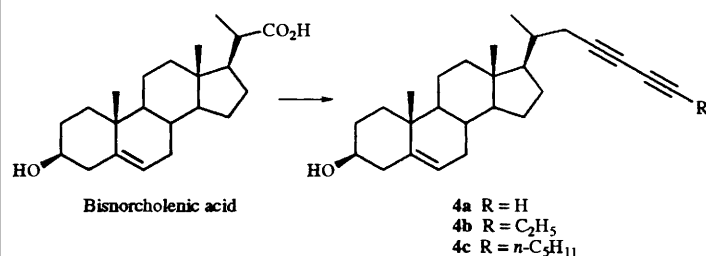
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Kazuaki Oda, Hisao Tsujita, Kosei Ohno and Minoru Machida



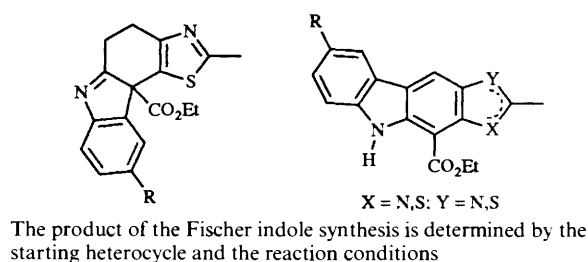
2937 **Diacetylenic sterols: new potentially photopolymerizable lipids**

Catherine Vilchère and Robert Bittman



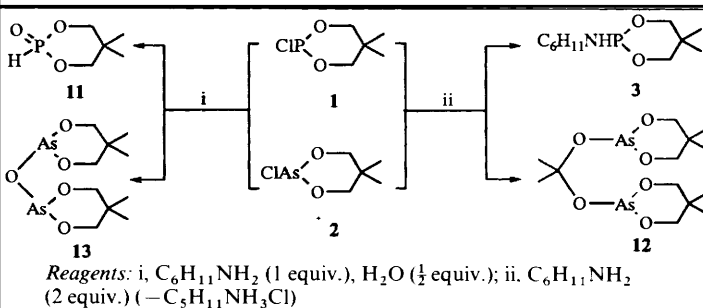
2941 **Preparation of thiazolocarbazoles via the Fischer indole synthesis**

Laurent Martarello, Delphine Joseph and Gilbert Kirsch



2945 **Reactivity of cyclic arsenites and phosphites: X-ray structures of bis(5,5-dimethyl-1,3,2-dioxarsenan-2-yl) ether and bis(2,4,8,10-tetra-*tert*-butyl-12*H*-dibenzo-*[d,g]*[1,3,2]dioxarsenocin-6-yl) ether**

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NOTE: An asterisk in the heading of each paper indicates the author who is to receive any correspondence.

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The dolastatins. Part 23. Synthesis of (-)-dolastatin

G.R. Pettit, J.K. Srirangam, S.B. Singh, M.D. Williams, D.L. Herald, J. Barkoczy, D. Kantoci and F. Hogan

The dolastatins. Part 24. Stereospecific synthesis of dolaisoleuine **G.R. Pettit, D.D. Burkett and M.D. Williams**

Synthesis of (2*E*,4*E*)-dienals by double formyl-olefination with an arsonium salt **Y-L. Wu, Z-H. Peng and W-L. Wu**

Base-induced cycloreversion of nitrile oxide cycloadducts: conversion of imines to secondary and tertiary amides and aromatic aldehydes to acids without a conventional oxidising agent **R.A. Aitken and S.V. Raut**

Flash vacuum pyrolysis of stabilised phosphorus ylides. Part 7. Cyclisation of amino acid derived α -phthalimidoacyl ylides to give benzopyrrolizidinediones **R.A. Aitken, H.R. Cooper and A.P. Mehrotra**

Flash vacuum pyrolysis of stabilised phosphorus ylides. Part 8. Preparation of symmetrical and unsymmetrical 1,3-diyne from alkynoyl ylides and oxalyl diylides **R.A. Aitken, H. Herion, C.E.R. Horsburgh, N. Karodia and S. Seth**

Syntheses of (benzyloxy)methyl-armed crown ether-esters using $SbPh_3$ as a template

Y. Habata, F. Fujishiro and S. Akabori

ν -Triazolines. Part 36. New synthesis of ethyl 1-alkyl-6-oxo-1,4,5,6-tetrahydro-pyridine-3-carboxylates and -pyridine-3-carbonitriles through reduction of *N*-(2-nitroaryl)amidines **E.Erba, R.Angelini and D. Pocar**

Reactions of carbene intermediates from the reaction of trialkyl phosphites with dialkyl benzoylphosphonates. Part 4. Intramolecular cyclisations of 2-substituted dialkyl benzoylphosphonates

D.V. Griffiths, P.A. Griffiths, K. Karim and B.J. Whitehead

Synthesis and X-ray molecular structure of 1,4-bis[4-(dimethylamino)phenyl]buta-1,3-diyne: charge-transfer complex with acceptors **J.G. Rodriguez, S. Ramos, R. Martin-Villamil, I. Fonseca and A. Albert**

Aziridination of alkenes using 3-acetoxyamino-2-trifluoromethylquinazolin-4(3*H*)-one

R.S. Atkinson, M.P. Coogan and C.L. Cornell

Synthesis of 2-allyl-1,2-dihydroindol-3-ones using *in situ* Claisen rearrangement of 1,2-dihydroindol-3-ones with allyl alcohols

T. Kawasaki, K. Masuda, Y. Baba, R. Terashima, K. Takada and M. Sakamoto

Backbone protection and its application to the synthesis of a difficult phosphopeptide sequence

T. Johnson, L.C. Packman, C.B. Hyde, D. Owen and M. Quibell

New synthesis of pyrroles and porphyrins fused with aromatic rings

N. Ono, H. Hironaga, K. Ono, S. Kaneko, T. Murashima, T. Ueda, C. Tsukamura and T. Ogawa

Efficient stereocontrolled synthesis of *D*-erythro-sphingosine from *N*-benzoyl-*D*-glucosamine **T. Murakami and M. Hato**

Asymmetric synthesis of amines using a chiral, non-racemic, benzylidene sulfinamide derived from a recoverable precursor **M. Wills, D.R.J. Hose, M.F. Mahon, K.C. Molloy and T. Raynham**

Synthesis of (2*S*)-*O*-phosphohomoserine and its C-2 deuteriated and C-3 chirally deuteriated isotopomers: probes for the pyridoxal phosphate-dependent threonine synthase reaction **D. Gani, F. Barclay and E. Chrystal**

Intramolecular radical substitution reactions: a novel approach to fused [1,2-*a*]indoles

S. Caddick, K. Aboutayab, K. Jenkins and R.I. West

Selectivity in the ring-expansion and ring-switching reaction of bicyclooxonium ions

A. Oku, T. Kamada, G. Qing and M. Abe

Diels-Alder reactions of trichloro-1,2,4-triazine: intramolecular additions with 1,5- and 1,6-dienes

M.G. Barlow, L. Sibous, N.N.E. Suliman and A.E. Tipping

Route to dihydro[2]benzoxepine[4,5-*c*]pyridines and dihydrothieno[*d*][2]benzoxepines *via* the 1,7-electrocyclisation of carbonyl ylides **J.T. Sharp and D.F. O'Shea**

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