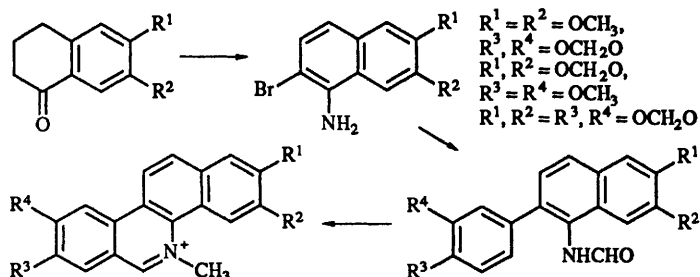


Communications

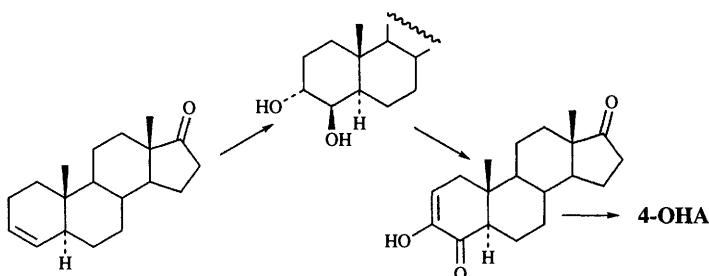
1647 A versatile synthesis of benzo[*c*]phenanthridine alkaloids

Graham R. Geen, Inderjit S. Mann,
M. Valerie Mullane and Alexander McKillop



1649 Novel approach to the synthesis of the aromatase inhibitor 4-hydroxyandrost-4-ene-3,17-dione (4-OHA)

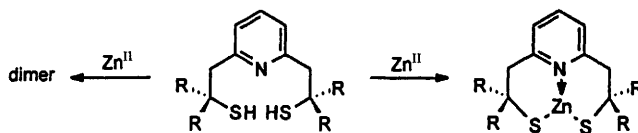
Elisario J. Tavares da Silva, Maria L.
Sá e Melo and André S. Campos Neves



Keynote Article

1651 (Nonracemic) thiols and Zn^{II} . Structural and catalytic aspects of some natural and non-natural zinc thiolates

Richard M. Kellogg and Robert P. Hof



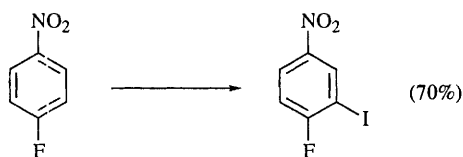
The balance between monomeric and dimeric structures for Zn^{II} thiolates has structural and catalytic consequences

Articles

1659 Elemental fluorine. Part 4. Use of elemental fluorine for the halogenation of aromatics

Richard D. Chambers, Christopher J. Skinner, Malcolm J. Atherton and John S. Moilliet

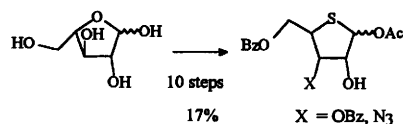
Iodination and bromination are induced by fluorine



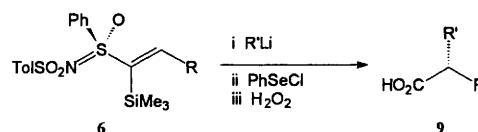
i, Room temp., I₂, H₂SO₄-CF₂ClCFCl₂, F₂

1665 Synthesis and configurational assignments of 3-substituted 2-deoxy-4-thio-D-erythro-pentofuranose derivatives

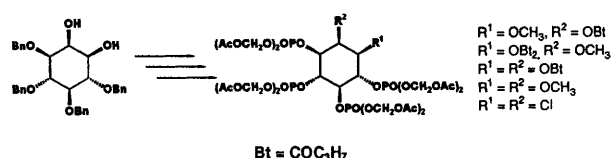
Houssine Ait-sir, Nour-Eddine Fahmi, Gérard Goethals, Gino Ronco, Bougrine Tber, Pierre Villa, David F. Ewing and Grahame Mackenzie

1673 Stereoselective addition of organometallic reagents to *N*-(tosyl)vinylsulfoximines

Richard F. W. Jackson, Andrew D. Briggs, Paul A. Brown, William Clegg, Mark R. J. Elsegood and Christopher Frampton

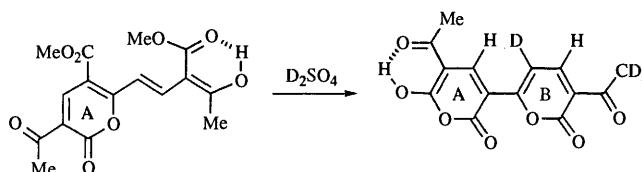
1683 Membrane-permeant analogues of the putative second messenger *myo*-inositol 3,4,5,6-tetrakisphosphate

Stefan Roemer, Christoph Stadler, Marco T. Rudolf, Bernd Jastorff and Carsten Schultz



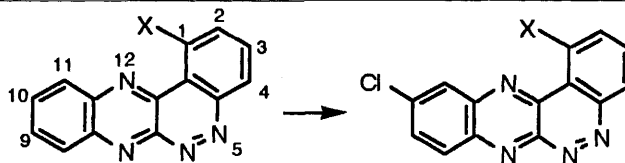
1695 Conversion of xanthyrones into glutaconic anhydride-pyrone (GP) compounds in strong acid media: selective deuteration as between chelated and unchelated acetyls

Leslie Crombie and Roderick V. Dove



1699 Polyaza heterocycles. Part 3. Halogenation of 1-substituted quinoxalino[2,3-*c*]cinnolines: mechanistic implications

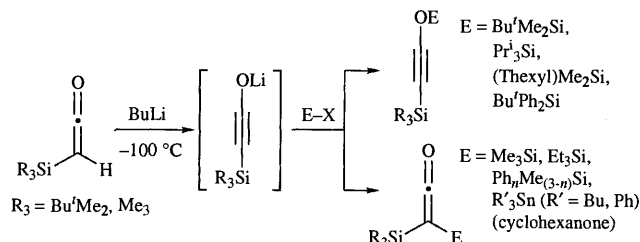
Ian W. Harvey, David M. Smith and Charles R. White



The reactions of 1-chloro-, 1-bromo- and 1-methyl-quinoxalino[2,3-*c*]cinnoline with hydrogen chloride in chloroform occur with increasing difficulty; basic work-up leads to the 10-chloro-derivatives of the starting compounds

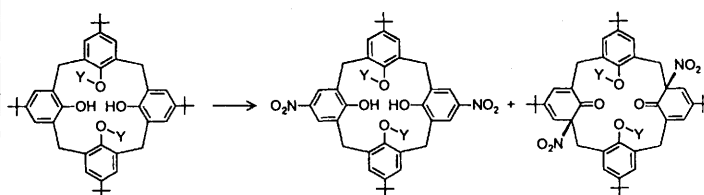
1705 Reaction of ynoate anions derived from silylketenes with electrophiles: a facile preparation of silyl ynoal ethers and functionalized silylketenes

Shuji Akai, Shinji Kitagaki, Tadaatsu Naka, Kiyoshi Yamamoto, Yasunori Tsuzuki, Keita Matsumoto and Yasuyuki Kita



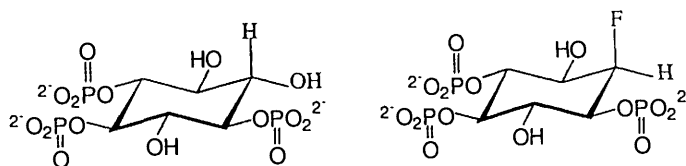
1711 Selective ipso-nitration of *tert*-butylcalix[4]-arene 1,3-diethers: X-ray structure of an unexpected side product

Oliver Mogck, Volker Böhmer, George Ferguson and Walter Vogt



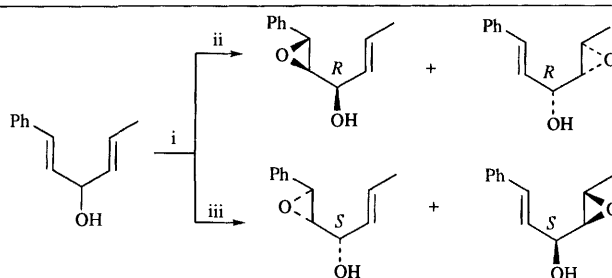
1717 Synthesis of *L*-scyllo-inositol 1,2,4-trisphosphate, *scyllo*-inositol 1,2,4,5-tetrakisphosphate and phosphorothioate and *DL*-2-deoxy-2-fluoro-*myo*-inositol 1,4,5-trisphosphate: optical resolution of *DL*-1-*O*-allyl-3,6-di-*O*-benzyl-4,5-*O*-isopropylidene-*scyllo*-inositol

Dethard Lampe, Changsheng Liu, Mary F. Mahon and Barry V. L. Potter

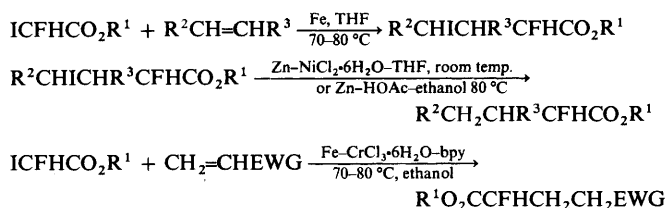


1729 Studies on the Sharpless asymmetric epoxidation of unsymmetrical divinylmethanols

Toshio Honda, Hirotake Mizutani and Kazuo Kanai



Reagents: i, $\text{Ti}(\text{OPr}^i)_4$, TBHP, MS (3 Å), CaH_2 , CH_2Cl_2 ; ii, D-(-)-DIPT; iii, L-(+)-DIPT

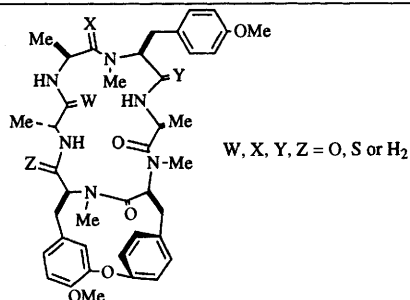
1741 Novel and practical preparation of α -fluoro-functionalized esters from fluoroiodoacetates

EWG = Electron withdrawing group

Chengxin Zhi and Qing-Yun Chen

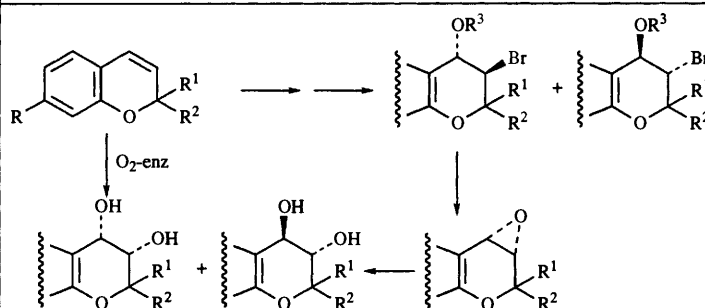
1749 Studies on *Rubia akane* (RA) derivatives. Part 10. Backbone transformation of RA-VII, an antitumour cyclic hexapeptide, through thionation. X-Ray crystal structure of [Tyr-3- Ψ (CH₂NH)-Ala-4]RA-VII

Yukio Hitotsuyanagi, Yuji Matsumoto, Shin-ichi Sasaki, Jin Suzuki, Koichi Takeya, Kentaro Yamaguchi and Hideji Itokawa



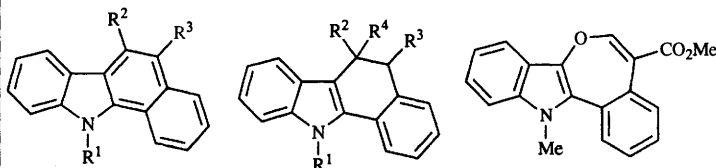
1757 Chemical and enzyme-catalysed syntheses of enantiopure epoxide and diol derivatives of chromene, 2,2-dimethylchromene, and 7-methoxy-2,2-dimethylchromene (precocene-1)

Derek R. Boyd, Narain D. Sharma, Rosemary Boyle, Timothy A. Evans, John F. Malone, Kenneth M. McCombe, Howard Dalton and Jagdeep Chima



1767 New Diels-Alder reactions of 3-vinylindoles with an aryne: selective access to functionalized [a]annellated carbazoles

Eugenia Gonzalez, Ulf Pindur and Dieter Schollmeyer

Some new [a]annellated carbazoles and related [b] indole derivatives have been synthesized from 3-vinylindoles with *in situ* generated aryne

AUTHOR INDEX

- Ait-sir, Houssine, 1665
Akai, Shuji, 1705
Atherton, Malcolm J., 1659
Böhmer, Volker, 1711
Boyd, Derek R., 1757
Boyle, Rosemary, 1757
Briggs, Andrew D., 1673
Brown, Paul A., 1673
Campos Neves, André S., 1649
Chambers, Richard D., 1659
Chen, Qing-Yun, 1741
Chima, Jagdeep, 1757
Clegg, William, 1673
Crombie, Leslie, 1695
Dalton, Howard, 1757
Dove, Roderick V., 1695
Elsegood, Mark R. J., 1673
Evans, Timothy A., 1757
Ewing, David F., 1665
- Fahmi, Nour-Eddine, 1665
Ferguson, George, 1711
Frampton, Christopher, 1673
Geen, Graham R., 1647
Goethals, Gérard, 1665
Gonzalez, Eugenia, 1767
Harvey, Ian W., 1699
Hitotsuyanagi, Yukio, 1749
Hof, Robert P., 1651
Honda, Toshio, 1729
Itokawa, Hideji, 1749
Jackson, Richard F. W., 1673
Jastorff, Bernd, 1683
Kanai, Kazuo, 1729
Kellogg, Richard M., 1651
Kita, Yasuyuki, 1705
Kitagaki, Shinji, 1705
Lampe, Dethard, 1717
Liu, Changsheng, 1717
- Mackenzie, Grahame, 1665
Mahon, Mary F., 1717
Malone, John F., 1757
Mann, Inderjit S., 1647
Matsumoto, Keita, 1705
Matsumoto, Yuji, 1749
McCombe, Kenneth M., 1757
McKillop, Alexander, 1647
Mizutani, Hirotake, 1729
Mogck, Oliver, 1711
Moilliet, John S., 1659
Mullane, M. Valerie, 1647
Naka, Tadaatsu, 1705
Pindur, Ulf, 1767
Potter, Barry V. L., 1717
Roemer, Stefan, 1683
Ronco, Gino, 1665
Rudolf, Marco T., 1683
Sá e Melo, Maria L., 1649
- Sasaki, Shin-ichi, 1749
Schollmeyer, Dieter, 1767
Schultz, Carsten, 1683
Sharma, Narain D., 1757
Skinner, Christopher J., 1659
Smith, David M., 1699
Stadler, Christoph, 1683
Suzuki, Jin, 1749
Takeya, Koichi, 1749
Tavares da Silva, Elisario J., 1649
Tber, Bougrine, 1665
Tsuzuki, Yasunori, 1705
Villa, Pierre, 1665
Vogt, Walter, 1711
White, Charles R., 1699
Yamaguchi, Kentaro, 1749
Yamamoto, Kiyoshi, 1705
Zhi, Chengxin, 1741

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

Forthcoming Articles in *Perkin Transactions 1*

New synthesis of 1-chloroalkylphosphinates

X. Morise, P. Savignac and J.-M. Denis

Biosynthesis of porphyrins and related macrocycles. Part 44. Synthetic and stereochemical studies on the proposed spiro intermediate for biosynthesis of the natural porphyrins

M.A. Cassidy, N. Crockett, F.J. Leeper and A.R. Battersby

Biosynthesis of porphyrins and related macrocycles. Part 45. Determination by a novel X-ray method of the absolute configuration of the spiro lactam which inhibits cosynthetase

A.C. Spivey, A. Capretta, C.S. Frampton, F.J. Leeper and A.R. Battersby

Reductive alkylation of pyridinium salts: Part 1. Synthesis of di-, tetra- and hexa-hydropyridine esters

J. MacFavish, G.R. Proctor and J. Redpath

Reductive alkylation of pyridinium salts: Part 2. Utilisation of di-, tetra- and hexa-hydropyridine esters

K.J. McCullough, J. MacFavish, G.R. Proctor and J. Redpath

Photochemical behaviour of ω -thiabicyclo[3.*n*.1]alkan-3-one: a mechanistic and exploratory study

O. Muraoka, B.-Z. Zheng, M. Nishimura and G. Tanabe

Transannular cyclization reactions of cyclooctane-1, 5-dione and 5-ethoxycarbonylmethylene cyclooctanone upon treatment with diamines. An efficient one-pot synthesis of substituted diazatricyclo[5.3.3.0^{1,6}] and diazatricyclo[4.3.3.0^{1,5}]alkanes and a study of their acetylation products

E. Malamidou-Xenikaki

Tirucalla-5,24-dien-3 β -ol [(13 α ,14 β ,17 α ,20*S*)-lanosta-5,24-dien-3 β -ol] and three other Δ^5 -unsaturated tirucallanes from the roots of *bryonia dioica* Jacq.: the first naturally occurring C-10 methylated tetracyclic triterpene alcohols with a Δ^5 -monounsaturated skeleton

T. Akihisa, Y. Kimura, W.C.M.C. Kokke, S.-I. Takase, K. Yasukawa and T. Tamura

The reactivity of perfluoro-*cis*-2,3-dialkyloxaziridines with heteroaromatic nitrogen compounds

B. Novo and G. Resnati

Diastereoselective hydrogenations of α -alkyl α -(2,3,4,6-tetra-*O*-acetyl- β -D-glucopyranosyloxy)methylene carbonyl compounds. A new route to stereopure α -alkyl α -oxymethyl carbonyl compounds

D.S. Larsen, A. Schofield, R.J. Stoodley and P.D. Tiffin

Chymotrypsin inhibitory conformation induced by amino acid side chain-side chain intramolecular CH/ π interaction

Y. Shimogashi, I. Maeda, T. Nose, K. Ikesue, H. Sakamoto, T. Ogawa, Y. Ide, M. Kawahara, T. Nezu, Y. Terada, K. Kawano and M. Ohno

Novel cyclodehydration of hydroxyphenols. An alternative to the Mitsunobu reaction

P.A. Procopion, A.C. Brodie, M.J. Deal, D.F. Hayman and G.M. Smith

Stereoselective isomerisations of 4-(3',5'-dimethoxyphenyl)-2,5-dimethyl-1,3-dioxolanes. Temperature-dependent formation of either isochromans or dihydroisobenzofurans

R.G.F. Giles, R.W. Rickards and B.S. Senanayake

Stereocontrolled route to some optically active β -hydroxy phosphine oxides using the stereoselective addition of metallated phosphine oxides to proline-derived keto amins

P. O'Brien and S. Warren

Synthesis of (*R*)- or (*S*)-diphenylphosphinoyl hydroxy aldehydes and 1,2-diols using Mukaiyama's bicyclic amins methodology and Sharpless asymmetric dihydroxylation

P. O'Brien and S. Warren

Synthesis and absolute configurations of the naturally occurring 3- and 4-methylmuconolactones: X-ray structures of (*S*)-1-phenylethylammonium salts and an 8-bromo-1-methylmuconodilactone

A.A. Freer, G.W. Kirby and G.V. Rao

Acid-catalysed rearrangement of caryophyllene oxide

W.-Y. Tsui and G. Brown

Polar cycloaddition of 1-benzothiopyrylium salts with conjugated dienes and some transformations of the cycloadducts

H. Shimizu, S. Miyazaki and T. Kataoka

Correction to 'Instructions for Authors (1996)'

The e-mail address for the Cambridge Crystallographic Data Centre given on p. xxi of the 'Instructions for Authors (1996)' in Issue 1 is no longer valid.

The correct address is: deposit@chemcrys.cam.ac.uk

Forthcoming articles in *Contemporary Organic Synthesis*

Catalytic applications of transition metals in organic synthesis
Graham J Dawson, Justin F Bowe and Jonathan M J Williams

Saturated and unsaturated lactones
Ian Collins

Saturated nitrogen heterocycles
Timothy Harrison

Amines and amides
Michael North

Synthetic applications of flash vacuum pyrolysis
Hamish McNab

Synthetic approaches to rapamycin
Mark C Norley

Protecting groups
Krzysztof Jarowicki and Philip Kocienski

The synthesis of quinones
Peter T Gallagher

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Natural sesquiterpenoids
B Manuel Fraga

Dietary antioxidants in disease prevention
Michael H Gordon

Recent progress in the chemistry of the monoterpene indole alkaloids
J Edwin Saxton

Recent advances in the chemistry of annonaceous acetogenins
Jerry L McLaughlin

Muscarine, imidazole, oxazole, thiazole and peptide alkaloids, and other, miscellaneous alkaloids
John R Lewis

Oligomeric flavonoids
D Ferreira and R Bekker

Natural guanidine derivatives
Roberto G S Berlinck

Decanolides, naturally occurring 10-membered lactones
Ralf Thiericke