

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

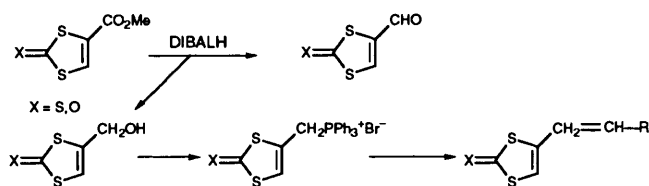
Organic and Bio-organic Chemistry

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Perkin Communications

- 1711 Useful Wittig reagents in 1,3-dithiole and tetrathiafulvalene (TTF) chemistry: 2-thioxo- and 2-oxo-1,3-dithiol-4-ylmethyl(triphenyl)-phosphonium bromides

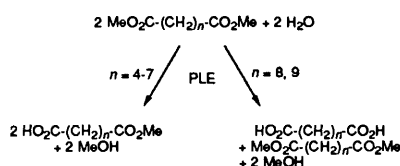
Tomasz Nozdryn, Jack Cousseau, Alain Gorgues, Michel Jubault, Jesus Orduna, Santiago Uriel and Javier Garin



A versatile synthesis of the title compounds is reported, along with derived Wittig reactions

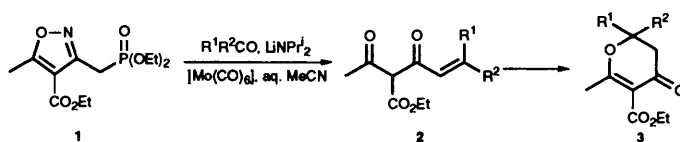
- 1713 Enzyme-assisted preparation of pure alkanedicarboxylic acid monoesters: chain-length dependence of porcine liver esterase (PLE)-catalysed hydrolyses

Mario Lobell and Manfred P. Schneider



- 1715 An isoxazole route to unsaturated α -alkoxy-carbonyl- β -diketones

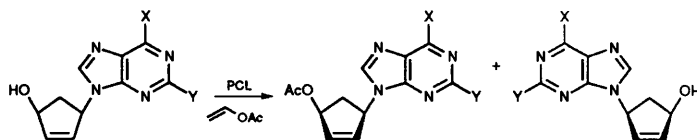
Raymond C. F. Jones, Gurdip Bhalay and Paul A. Carter



The phosphonomethylisoxazole **1**, prepared by nitrile oxide cycloaddition, is condensed with carbonyl compounds, and the N-O bond subsequently cleaved to afford unsaturated α -alkoxy-carbonyl- β -diketones **2**; further cyclization leads to dihydropyrones **3**

- 1717 Synthesis of optically active 5'-noraristeromycin: Enzyme-catalysed kinetic resolution of 9-(4-hydroxycyclopent-2-enyl)purines


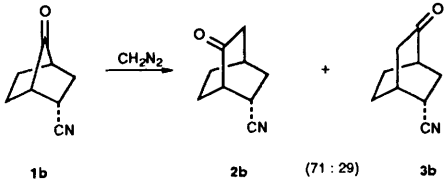
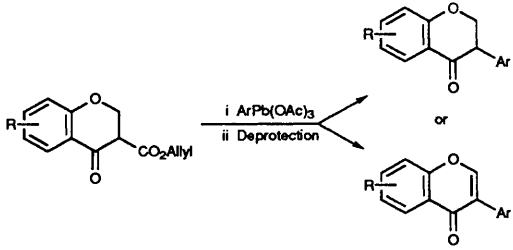
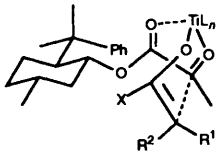
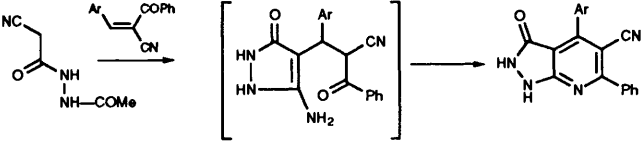
Valeria Merlo, Fiona J. Reece, Stanley M. Roberts, Mike Gregson and Richard Storer



X = Cl, Y = H
X = Cl, Y = NH₂
X = NH₂, Y = H

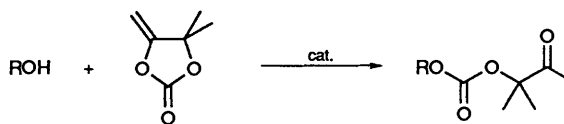
The enzyme-catalysed kinetic resolution of various 2',3'-dideoxydidehydronucleoside analogues is described

Articles

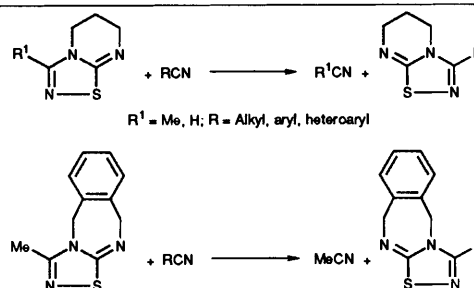
<p>1719 Thermal rearrangement of 4-iminomethyl-1,2,3-thiadiazoles</p> <p>Gerrit L'abbé, Mikaëla Verbeke, Wim Dehaen and Suzanne Toppet</p>	 <p>4-Iminomethyl-1,2,3-thiadiazoles with a hydrogen, phenyl or <i>tert</i>-butylthio substituent at the 5-position rearranged to triazole derivatives</p>
<p>1727 Long-range substituent effects on the regioselectivity of one-carbon ring expansion of norbornan-7-ones</p> <p>Goverdhan Mehta and Faiz Ahmed Khan</p>	 <p>1b 2b (71 : 29) 3b</p>
<p>1729 Organolead-mediated arylation of allyl β-ketoesters: a selective synthesis of isoflavanones and isoflavones</p> <p>Dervilla M. X. Donnelly, Jean-Pierre Finet and Bernard A. Rattigan</p>	
<p>1737 Asymmetric reactions of 8-phenylmenthyl pyruvate with allyltrimethylsilane, silyl enol ethers and ketene silyl acetals</p> <p>Ming-Yi Chen and Jim-Min Fang</p>	 <p>By mediation of TiCl_4, the titled reactions occurred in stereoselective manner <i>via</i> rigid cyclic transition states as shown</p>
<p>1743 Reactivity of cinnamitriles with 2-cyano- and 2-ethoxycarbonyl-acetohydrazides: A novel one-step preparation and crystal structure of 3-oxopyrazolo[3,4-<i>b</i>]pyridines</p> <p>Ali Hadi, Nazario Martín, Carmen Méndez, Margarita Quinteiro, Carlos Seoane, José L. Soto, Armando Albert and Félix H. Cano</p>	 <p>A one-step synthesis of pyrazolo[3,4-<i>b</i>]pyridines is described. The X-ray crystallographic analysis showed the presence of the enol tautomer. The synthesis of the intermediate dihydro-2-pyridones and a novel series of triazolo[1,5-<i>a</i>]pyridinones is also reported</p>

1749 Direct access to β -oxopropyl carbonates from bulky alcohols

Jean Marc Joumier, Christian Bruneau and Pierre H. Dixneuf

Synthesis of β -oxopropyl carbonates from bulky alcohols1753 Studies of heterocyclic compounds. Part 31. 4-Alkyl-5-alkylimino- Δ^2 -1,2,4-thiadiazolines: Synthesis and cycloaddition reactions with nitriles in attempts to prepare $3a\lambda^4$ -thia-1,3,4,6-tetraazapentalenes

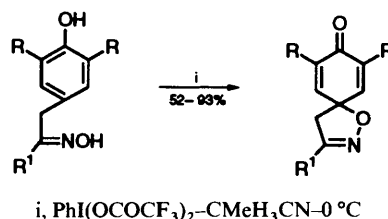
Long-Li Lai, Tak-Ho Ngoi, David H. Reid, Robin H. Nicol and Jane B. Rhodes

1761 'Hidden' axial chirality as a stereodirecting element in reactions involving enol(ate) intermediates. Part 1. Cyclisation reactions of methyl (4*R*)-3-(2-diazo-3-oxobutanoyl)-thiazolidine-4-carboxylate and related compounds

Brian Beagley, Michael J. Betts, Robin G. Pritchard, Anthony Schofield, Richard J. Stoodley and Shaheen Vohra

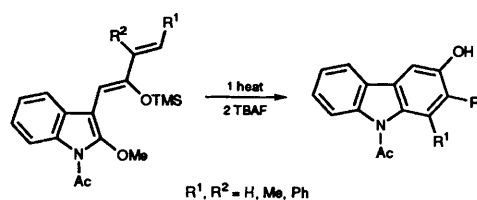
Thiazolidine **1** undergoes a based-induced cyclisation to the bicycle **2** with complete retention of configuration; relatives of compound **1** react in an analogous manner1771 Intramolecular oxidative cyclisation of 1-(4-hydroxyaryl)-2-ketoximes 4-HOArCH₂C(=NOH)R with phenyliodine(III) bis(trifluoroacetate)

Mesut Kaçan, Demet Koyuncu and Alexander McKillop

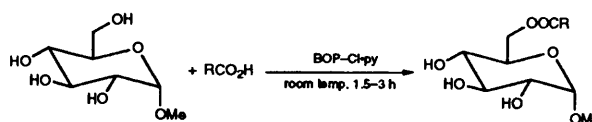
i, $\text{PhI}(\text{OCOCF}_3)_2 \cdot \text{CMeH}_3 \cdot \text{CN} - 0^\circ\text{C}$

1777 New approach to 3-oxygenated carbazoles. Synthesis of hyellazole and 4-deoxycarbomycin B

Tomomi Kawaski, Yoshinori Nonaka, Miki Akahane, Noriko Maeda and Masanori Sakamoto

 $R^1, R^2 = \text{H, Me, Ph}$ 1783 Regioselective acylation of methyl α -D-glucopyranoside and methyl α -D-mannopyranoside by means of bis-(2-oxooxazolidin-3-yl)phosphinic chloride (BOP-Cl)

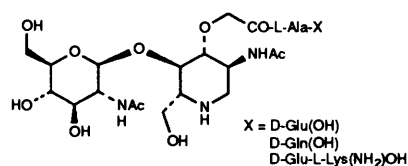
Angelo Liguori, Antonio Procopio, Giovanni Romeo, Giovanni Sindona and Nicola Uccella



A new synthetic procedure allows the regioselective acylation of the title compounds by means of BOP-Cl and aromatic or aliphatic carboxylic acids

- 1787 **Aza-analogues of the repeating disaccharide unit of peptidoglycan. Part 2. Enantiospecific synthesis of peptide-derivatised 2-acetamido-4-O-(2'-acetamido-2'-deoxy-β-D-glucopyranosyl)-3-O-carboxymethyl-1,2,5-trideoxy-1,5-imino-D-glucitol**

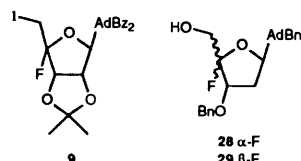
Stephen F. Moss and Robert Southgate



Enantiospecific synthesis of the aza-glycopeptides shown above is described

- 1795 **Synthetic approaches towards nucleocidin and selected analogues; anti-HIV activity in 4'-fluorinated nucleoside derivatives**

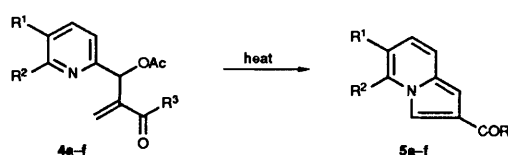
Anita R. Maguire, Wei-dong Meng, Stanley M. Roberts and Andrew J. Willetts



The synthesis of 4'-fluorinated nucleoside derivatives is described; activity against HIV was observed for some of these compounds

- 1809 **Indolizine studies. Part 2. Synthesis and NMR spectroscopic analysis of 2-substituted indolizines**

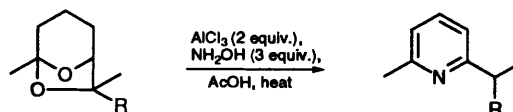
Moira L. Bode and Perry T. Kaye



Convenient access to 2-substituted indolizines *via* a thermal cyclisation route has been demonstrated, and the high field NMR spectral characteristics of the products have been investigated

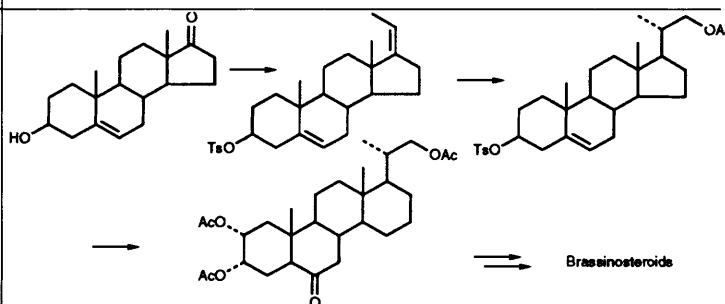
- 1815 **Direct synthesis of 2,6-disubstituted pyridines from bicyclic ketals**

Jong-Gab Jun, Hyun Shun Shin and Sung Hoon Kim



- 1819 **Short-step stereoselective synthesis of 2α,3α,22-triacetoxy-23,24-dinor-5α-cholan-6-one: Key intermediate for the preparation of 24¹-norbrassinolide, dolicholide and dolichosterone**

Braja G. Hazra, Vandana S. Pore and Padmakar L. Joshi



Corrigendum

- 1823 **Total synthesis of (–)-C₃₄-botryococcene, the principal triterpenoid hydrocarbon of the freshwater alga *botryococcus braunii*** James D. White, G. Nagabushana Reddy and Gary O. Spessard

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

