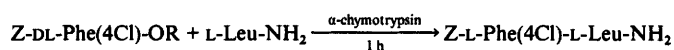


Communications

2867 α -Chymotrypsin-catalysed peptide synthesis using activated esters as acyl donors

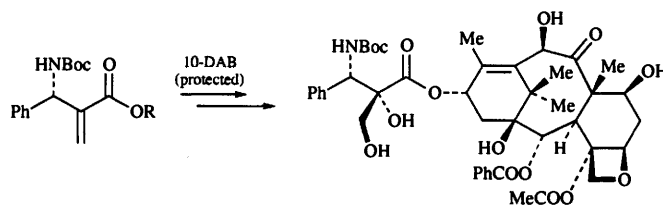
Toshifumi Miyazawa, Shin'ichi Nakajo, Miyako Nishikawa, Kiwamu Imagawa, Ryoji Yanagihara and Takashi Yamada



Peptide yield: R = Me, 4%; R = CH₂CF₃, 48%

2869 Effective enantioselective approach to α -aminoalkylacrylic acid derivatives via a synthetic equivalent of an asymmetric Baylis-Hillman reaction: application to the synthesis of two C-2' hydroxymethyl analogues of docetaxel

Yves Génisson, Christine Massardier, Isabelle Gautier-Luneau and Andrew E. Greene

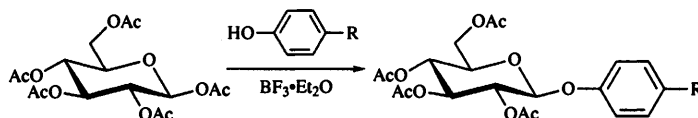


A synthetic equivalent of an asymmetric Baylis-Hillmann reaction with imines has been developed and used in the synthesis of two new derivatives of docetaxel

Articles

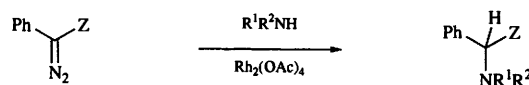
2873 Reliable method for the synthesis of aryl β -D-glucopyranosides, using boron trifluoride-diethyl ether as catalyst

Elly Smits, Jan B. F. N. Engberts, Richard M. Kellogg and Henk A. van Doren



2879 N-H Insertion reactions of rhodium carbenoids. Part 1. Preparation of α -amino acid and α -aminophosphonic acid derivatives

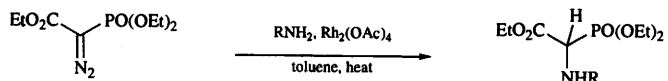
Enrique Aller, Richard T. Buck, Martin J. Drysdale, Leigh Ferris, David Haigh, Christopher J. Moody, Neil D. Pearson and J. Bobby Sanghera



Rhodium(II)-catalysed N-H insertion reactions of diazo esters ($Z = \text{CO}_2\text{R}$) or diazophosphonates [$Z = \text{PO}(\text{OMe})_2$] gives the corresponding amino esters or aminophosphonates

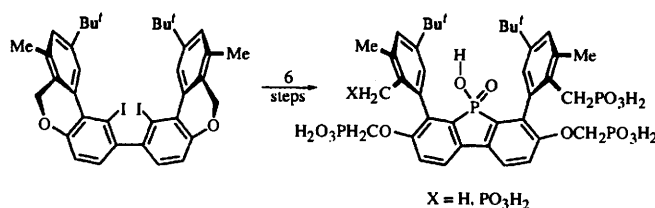
2885 N-H Insertion reactions of rhodium carbenoids. Part 2. Preparation of N-substituted amino(phosphoryl)acetates (N-substituted phosphorylglycine esters)

Leigh Ferris, David Haigh and Christopher J. Moody



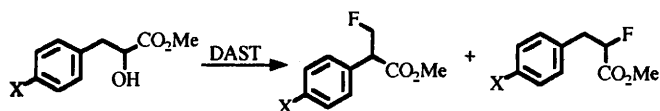
2889 Synthesis of substituted dibenzophospholes. Part 9. Preparation of two water-soluble phosphinic-polyphosphonic acids

Sir John Cornforth



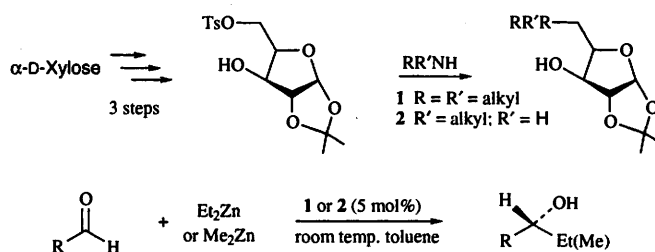
2895 Anomalous fluorinations of 3-aryl-2-hydroxypropanoic esters by diethylaminosulfur trifluoride (DAST)

David Haigh, Lee J. Jecott, Katherine Magee and Hamish McNab



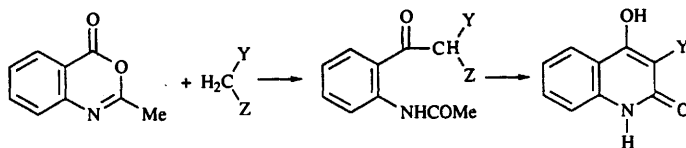
2901 Catalytic enantioselective reactions. Part 9. 1,2-O-Isopropylidene-5-deoxy-5-N,N-dialkyl (or -N-monoalkyl)amino- α -D-xylofuranose derivatives as highly effective chiral catalysts for enantioselective addition of diethylzinc to aliphatic and aromatic aldehydes

Byung Tae Cho and Namdu Kim



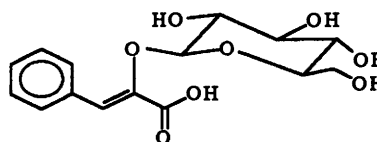
2909 Reactions of 2-methyl-3,1-benzoxazin-4-one with active methylene compounds: a new route to 3-substituted 4-hydroxyquinolin-2(1H)-ones

Anastasia Detsi, Vassilios Bardakos, John Markopoulos and Olga Igglessi-Markopoulou



2915 Occurrence of phenylpyruvic acid in woody plants: biosynthetic significance and synthesis of an enolic glucoside derivative

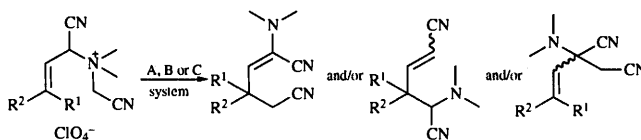
Charlene Marais, Jacobus A. Steenkamp and Daneel Ferreira



Identification of the enolic glucoside of phenylpyruvic acid represents the first evidence of the latter's presence in woody plants

2919 [1,4] and [2,3] Sigmatropic rearrangements of ylides generated from *N*-(α -cyano)allyl-*N*-cyanomethyl-*N,N*-dimethylammonium perchlorates

Andrzej Jończyk, Tadeusz Zdrojewski, Paweł Grzywacz and Paweł Balcerzak

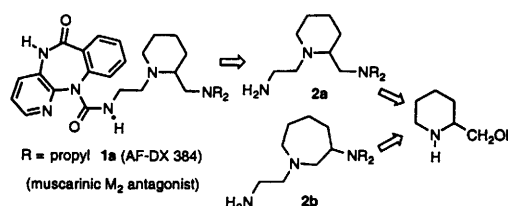


R¹, R² = Me, Me; H, Me; H, Ph

A, solid K₂CO₃-DMSO; B, aq. NH₃-CH₂Cl₂; C, solid NaHCO₃-DMF

2925 Syntheses of piperidine and perhydroazepine derivatives, precursors of two selective antagonists of muscarinic M₂ receptors: AF-DX 384 and its perhydroazepine isomer

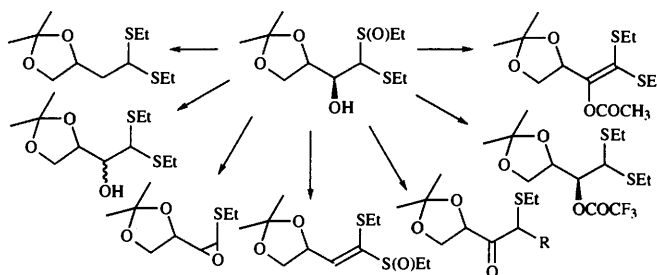
Cécile Perrio-Huard, Christophe Ducandas, Marie Claire Lasne and Bernard Moreau



R = propyl **1a** (AF-DX 384)
(muscarinic M₂ antagonist)

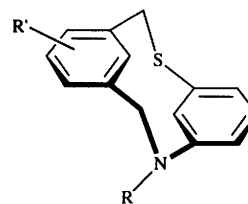
2933 Analysis of the reactivity of the dithioacetal mono-*S*-oxide 1-deoxy-1-ethylsulfinyl-1-ethylthio-3,4-*O*-isopropylidene-*D*-erythritol under different conditions of reduction

Yolanda Arroyo-Gómez, Juan A. López-Sastre, J. Felix Rodríguez-Amo and M^a Ascension Sanz-Tejedor



2937 Helical thiaza[2.2]metacyclophanes. Synthesis, structure, circular dichroism, absolute configuration

Dirk Müller, Marc Böhme, Martin Nieger, Kari Rissanen and Fritz Vögtle



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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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Y.-M. Xu and W.-S. Zhou

Dendrimeric silatrane wedges
T. Kemmitt and W. Henderson

Carbostyryl anions as bidentate nucleophiles in their reaction with aryllead triacetates. Synthesis of 1-aryl- and 3-aryl-1,2,5,6-tetrahydroquinoline-2,5,8-triones
P. Lopez-Alvarado, C. Avendano and J.C. Menendez

Diazo transfer reactions of tosyl azide with carbocyclic β -keto esters. Production and decomposition of ring-opened *N*-(toluene-*p*-sulfonyl)carbamoyl-substituted α -diazo esters
L. Benati, D. Nanni and P. Spagnole

Simple method for the synthesis of 4-aryl-9-hydroxynaphthofuranone lignans
K. Kobayashi, K. Maeda, T. Uneda, O. Morikawa and H. Konishi

Synthesis of (\pm)-2-methyl-1,2,3,4,4a,5,6,7,8,8a,1'2'3'4'-tetradecahydrospiro[isoquinoline-5,1'-naphthalene]: a novel spiro structure
A. Gibson, A.I. Gray and G.L. Patrick

Cycloaddition vs. conjugative Michael-type addition reaction of 2-ethoxy-3-morpholinobuta-1,3-diene with nitroalkenes
G. Marc, P. Nitti, G. Pitacco, A. Pizzioli and E. Valentin

Synthesis of 3,4,6,7-tetrahydro-1*H*-5,2-benzoxathionines by *S*-ylide rearrangement
T. Kitano, N. Shirai and Y. Sato

Regioselective 1,4-addition of ammonia to 1-arylalkyl-1,3-dienes and 1-aryl-4-phenylbuta-1,3-dienes *via* photoinduced electron transfer
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Convenient synthesis of alkynylpyrazole
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Unusual reactions of methylsulfonyl esters: syntheses of 3 α -methyl and 3 β -methyl gibberellin A₂₀
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Chiral base mediated asymmetric synthesis of tricarbonyl(η^6 -arene)chromium complexes
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Conversion of imino-1,2,3-dithiazoles into 2-cyanobenzothiazoles, cyanoimidoyl chlorides and diatomic sulfur
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Preparation, structure, derivatisation and NMR data of cyclohexane-1,2-diacetal protected carbohydrates
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Total synthesis of milbemycin E: synthesis of the C(11)–C(25) fragment
P.G. Steel and E.J. Thomas

Total synthesis of milbemycin E: development of a procedure for the introduction of the 3,4-double bond and synthesis of the C(1)–C(10) fragment
E.R. Parmee, S.V. Mortlock, N.A. Stacey, E.J. Thomas and O.S. Mills

Total synthesis of milbemycin E: resolution of the C(1)–C(10) fragment and final assembly
P.G. Steel, O.S. Mills, E.R. Parmee and E.J. Thomas

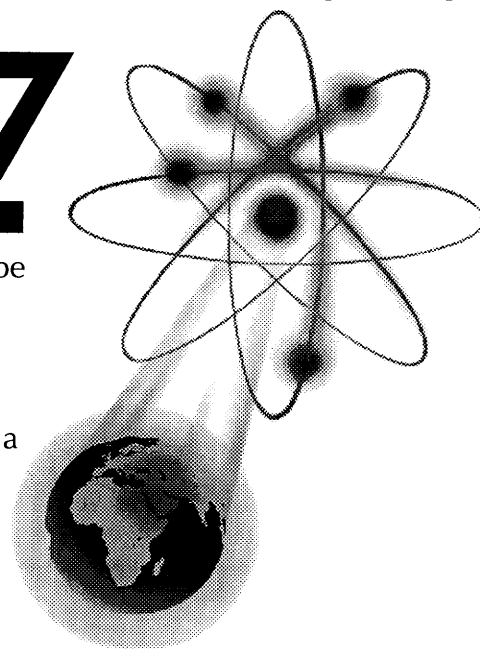
Pigments of fungi. Part 43. Cardinalins 1–6, novel pyranonaphthoquinones from the fungus *Dermocybe cardinalis* Horak
M.S. Buchanan, M. Gill and J. Yu

Preparation of *N*-substituted aspartic acids *via* enantiospecific conjugate addition of *N*-nucleophiles to fumaric acids using methylaspartase: synthetic utility and mechanistic implications
S.M. Gulzar, M. Akhtar and D. Gani

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