

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

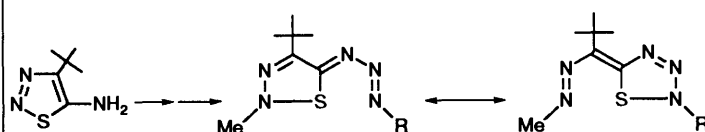
Organic and Bio-organic Chemistry

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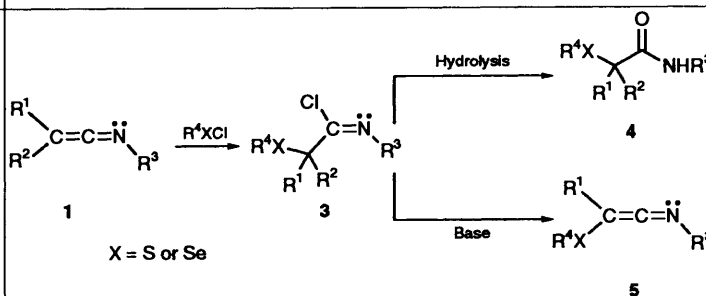
2895 Synthesis of $6a\lambda^4$ -thia-1,2,3,5,6-pentaazapentalenes

Gerrit L'abbé, Lieve Bastin, Wim Dehaen and Luc Van Meervelt



2899 Reactions of ketenimines with arene-sulfanyl and -selanyl chlorides: a general route to secondary amide derivatives and a new synthesis of C-sulfanyl- and C-selanyl-ketenimines

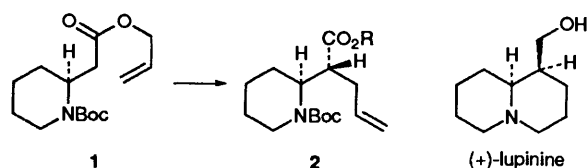
Daniel G. McCarthy, Patrick O. McCutcheon and Dermot P. Sheehan



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2903 Complementary enantioselective approaches to the quinolizidine alkaloids lupinine and epilupinine by enolate Claisen rearrangements or direct allylation of piperidin-2-ylacetic acid derivatives

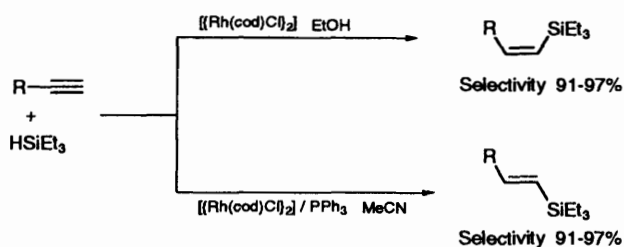
Christopher Morley, David W. Knight and Andrew C. Share



Enolate Claisen rearrangement of the allyl ester 1 leads mainly to the isomer 2 while direct enolate allylation gives the alternative isomer, a precursor to (+)-lupinine

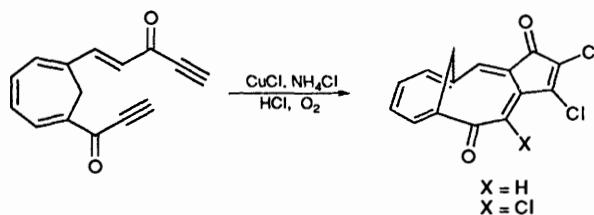
2909 Solvent-controlled stereoselectivity in the hydrosilylation of alk-1-yne catalysed by rhodium complexes

Ryo Takeuchi and Nao Tanouchi



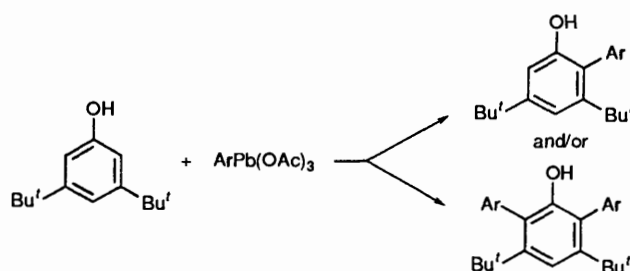
2915 Unusual formation of tricyclic annulenediones: diatropic cationic 10π -electron species in D_2SO_4

Hiroyuki Higuchi, Chiaki Sakon, Kaori Asano, Jūro Ojima, Masahiko Iyoda, Katsuya Inoue and Gaku Yamamoto



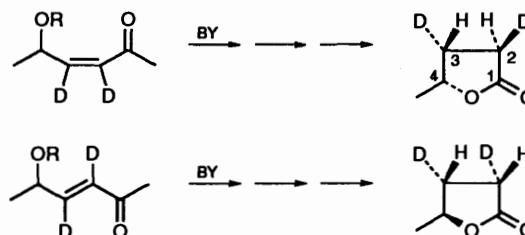
2921 *ortho*-Arylation of 3,5-di-*tert*-butylphenol with aryllead(IV) derivatives: a facile synthesis of sterically hindered phenols

Derek H. R. Barton, Dervilla M. X. Donnelly, Patrick J. Guiry and Jean-Pierre Finet



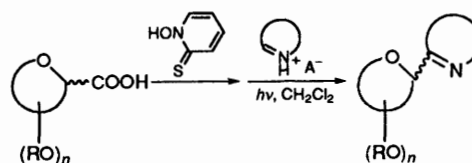
2927 Stereochemistry of the baker's yeast mediated reduction of the C=C bond of (*Z*)- and (*E*)-5-benzoyloxyhex-3-en-2-one

Giovanni Fronza, Claudio Fuganti, Piero Grasselli, Simonetta Lanati, Roberta Rallo and Susanna Tchilibon



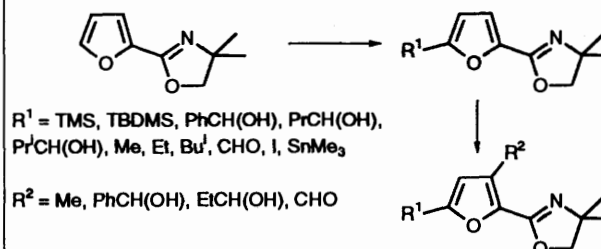
2931 Synthesis of C-nucleosides *via* radical coupling reaction

Hideo Togo, Sachiko Ishigami, Misa Fujii, Toshihiro Ikuma and Masataka Yokoyama



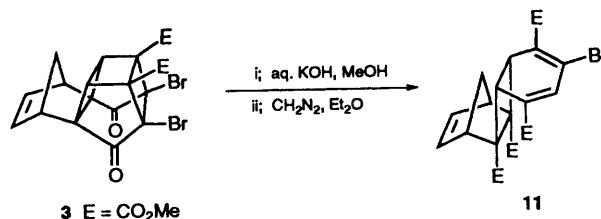
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Jean-Yves Lenoir, Pierre Ribéreau and Guy Quéguiner



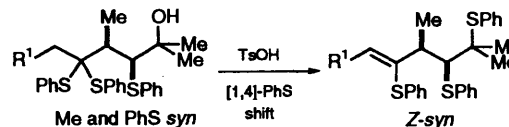
- 2949 **Cycloaddition between 2,3-dibromo-5,6-trinorbornobenzoquinone and 1,2-bis(methoxycarbonyl)cyclobutadiene: Intervention of a fragmentation reaction during quest for annulated, functionalized cubanes**

Goverdhan Mehta and S. Hari Krishna Reddy



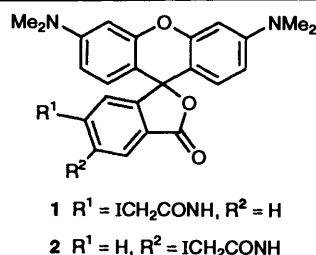
- 2953 **[1,4] Phenylthio migrations in the rearrangement of 2,4,4-tris(phenylthio)butanols**

María-Jesús Villa and Stuart Warren



- 2967 **Synthesis and characterisation of pure isomers of iodoacetamidotetramethylrhodamine**

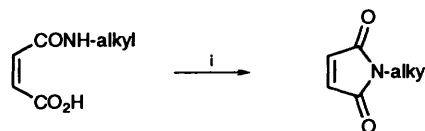
John E. T. Corrie and James S. Craik



Compounds **1** and **2** have been synthesised from defined precursors and their visible spectra have been investigated

- 2975 **Thiol-reactive fluorescent probes for protein labelling**

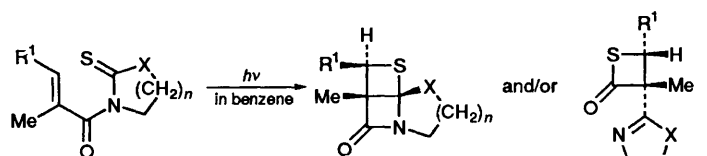
John E. T. Corrie



Reagents: i, cobalt naphthenate-Ac₂O-DMA

- 2983 **Photochemical synthesis of tricyclic β-lactams and their isomerization to β-thiolactones**

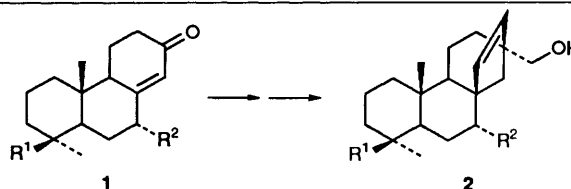
Masami Sakamoto, Masaki Takahashi, Mitsuru Yoshiaki, Tsutomu Fujita, Shoji Watanabe and Hiromu Aoyama



Photolysis of *N*-acyldithiocarbamates and thionocarbamates gave β-lactams and/or β-thiolactones

- 2987 **Synthesis of C-17-functionalized beyerane diterpenes. Synthesis of (–)-erythroxylool B, (–)-erythroxydiol A and (–)-benuol**

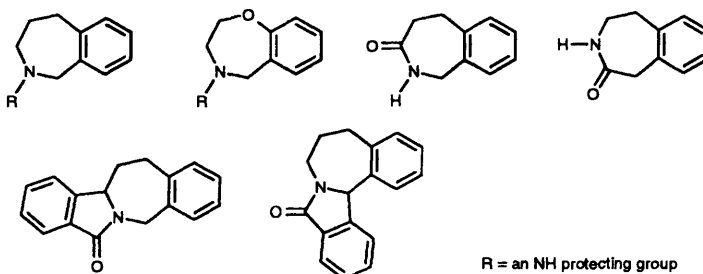
Antonio Abad, Consuelo Agulló, Manuel Arnó, M. Luisa Marín and Ramón J. Zaragoza



The synthesis of (–)-erythroxylool B **2** (R¹ = Me; R² = H), (–)-erythroxydiol A **2** (R¹ = CH₂OH; R² = H), and (–)-benuol **2** (R¹ = Me; R² = OH) has been effected from podocarpone **1**

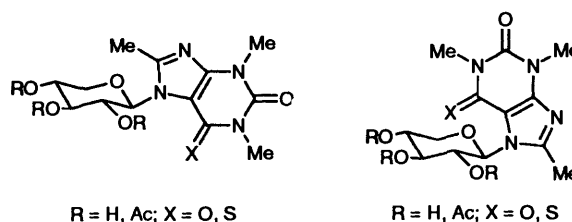
2993 **Regioselective Friedel–Crafts acylation of 2,3,4,5-tetrahydro-1*H*-2-benzazepine and related nitrogen heterocycles**

Yuji Ishihara, Toshimasa Tanaka, Seiji Miwatashi, Akira Fujishima and Giichi Goto



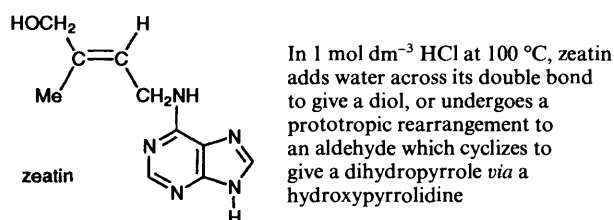
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Rodrigo Rico-Gómez and Juan Manuel López-Romero



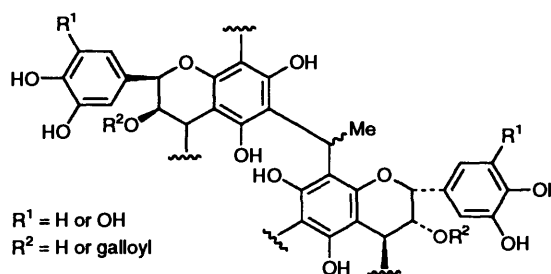
3009 **Transformations of the natural cytokinin zeatin in aqueous acidic media**

M'barek Haidoune, Claude Pethe, Michel Laloue and René Mornet



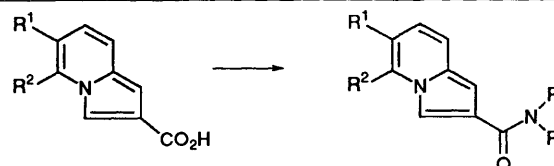
3013 **Chemical evidence for the de-astringency (insolubilization of tannins) of persimmon fruit**

Takashi Tanaka, Ryuji Takahashi, Isao Kouno and Gen-ichiro Nonaka



3023 **Indolizine studies. Part 3. Synthesis and dynamic NMR analysis of indolizine-2-carboxamides**

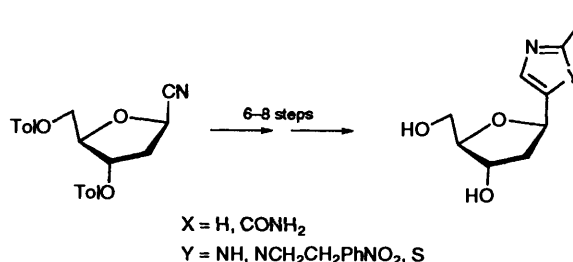
Moira L. Bode, Perry T. Kaye and, in part, Rosemary George



Treatment of indolizine-2-carboxylic acids with primary and secondary amines in the presence of 1,1'-carbonyldiimidazole gives the corresponding indolizine-2-carboxamides, some of which have been subjected to DNMR analysis

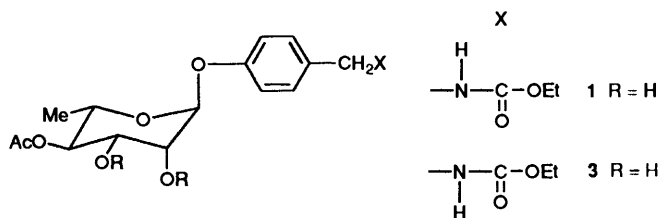
3029 **Synthesis of 2'-deoxy- β -D-ribofuranosyl imidazole and thiazole *C*-nucleosides**

Donald E. Bergstrom, Peiming Zhang and Jie Zhou



- 3035 **Novel hypotensive agents, niazimin A, niazimin B, Niazicin A and Niazicin B from *Moringa oleifera*: isolation of first naturally occurring carbamates**

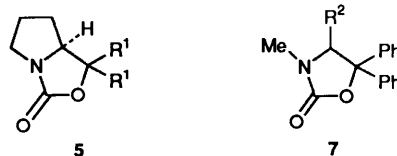
Shaheen Faizi, Bina Shaheen Siddiqui, Rubeena Saleem, Salimuzzaman Siddiqui, Khalid Aftab and Anwar-ul-Hassan Gilani



The structures of the novel hypotensive carbamate glycosides, niazimin A **1** and niazimin B **3** along with three new glycosides have been established on the basis of spectroscopic evidence and their chemical reactions

- 3041 **A new route to oxazolidinones**

Dominique Delaunay and Maurice Le Corre

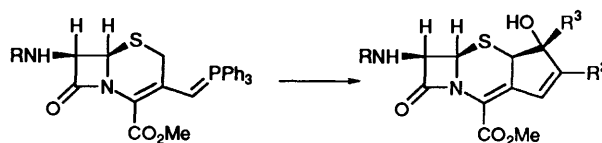


$R^1 = \text{Et, Bu, Ph, 2-naphthyl}$

$R^2 = \text{H, CH}_2\text{Ph}$

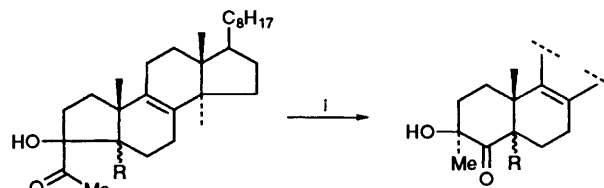
- 3043 **Synthesis and transformations of 3-vinylcephalosporins. Part 6. Reactions of cephalosporin phosphoranes with bifunctional carbonyl compounds**

János Pitlik, Tamás E. Gunda, Gyula Batta and József Jekö



- 3047 **Tetracyclic triterpenes. Part 15. Ring expansion of steroidal acyloins: 3-acetyl-3-hydroxy-14 α -methyl-4-nor-5 α - and -5 β -cholest-8-ene**

Zdzisław Paryzek and Jacek Martynow



$R = \alpha\text{- or } \beta\text{-H; i, BF}_3 \cdot \text{Et}_2\text{O/C}_6\text{H}_6 \text{ or MeOLi/MeOH or KOH/EtOH}$

Corrigenda

- 3051 **Chlorotropic rearrangements of an α -sulfanyl- α -sulfonylalkanesulfonyl chloride to an α -chloroalkyl disulfide and an *S*-(α -chloroalkyl) thiosulfonate** Ibrahim El-Sayed, Vitaly K. Belsky, Valery E. Zavodnik, Karl Anker Jørgensen and Alexander Senning
- 3051 **Condensed 1,2,4-triazines: synthesis of 5-benzyl-5*H*-imidazo[4,5-*e*]-1,2,4-triazine 1-oxides (9-benzyl-6-azapurine 6-oxides)** Cherng-Chyi Tzeng, Dau-Chang Wei, Long-Chih Hwang, Ming-Chu Cheng and Yu Wang

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

Forthcoming Articles in *Perkin Transactions 1*

Regioselectivity in the Reductive Cleavage of Pyrogallol Derivatives: Reductive Electrophilic Substitution of Acetals of 2,3-Dimethoxyphenol **U. Azzena, G. Melloni and L. Pisana**

On the Mechanism of Phototransformations of 3-Alkoxy-2-(2-furyl)-4-oxo-4*H*-1-benzopyrans
S.C. Gupta, A. Saini, D. Kumar, N.S. Yadav, K. Chand, S. Mor and S.N. Dhawan

Additivity Relationships in the Carbon-13 Nuclear Magnetic Resonance Spectra of Polyhydroxy Steroids
M. Kobayashi

(Halogenomethyl)phenyl α -D-Glucopyranosides as Enzyme Activated Irreversible Inhibitors of Yeast α -Glucosidase and Potential Anti-HIV Agents **A.H. Haines, J.C. Briggs and R.J.K. Taylor**

Radical Cyclisation in Heterocycle Synthesis. Part 1. Thiyl Radical Addition-Cyclisation of Dienylamides for Lactam Synthesis **T. Naito, Y. Honda, O. Miyata and I. Ninomiya**

Improved Synthesis of Isoguanosine and 6-Substituted Xanthosine Derivatives
G. Piccialli, L. de Napoli, D. Montesarchio, C. Santacroce and M. Varra

Allene-based Electrophile-mediated Cyclisations: Efficient Synthesis of Medium Ring Azacycles
T. Gallagher and R. W. Shaw

Synthesis of Medium Ring Azacycles *via* Allene-based Cyclisations: Evaluation of Possible Mechanistic Pathways
T. Gallagher, I.W. Davies, R.W. Shaw and R. Wisedale

5,9-Methanobenzocycloalkenamines. Part 1. An Improved Synthesis of 11-Amino-5,9-methanobenzocyclooctenes **D.R. Rae, I.M. Gilbert, C.L. Hewett, J. Redpath, D.S. Savage and T. Sleigh**

Synthesis, Structure and Reactions of Chiral Oxazinones Derived from L-Ephedrine
J.-M. Fang, C.-J. Chang, G.-H. Lee and Y. Wang

Design and Synthesis of New Bile Acid-based Macrocycles **U. Maitra and S. Balasubramanian**

Lipase-catalysed Transesterification in the Preparation of Optically Active Solketal
L.T. Kanerva and E. Vantfinen

Studies on Steroidal Plant-growth Regulator 33 **W.-S. Zhou and L.-F. Huang**

Synthetic Studies on the Ophiobolane Sesterterpenes. Construction of an Optically Pure, Advanced Tricyclic Intermediate for the Synthesis of Ceroplastic Acid **J.H. Rigby, T. McGuire, C. Senanayake and K. Khemani**

Synthesis of Each Stereoisomer of 3-2*H*₁-Phenylalanine and Evaluation of the Stereochemical Course of the Reaction of (*R*)-Phenylalanine with (*S*)-Phenylalanine Ammonia-lyase **C.J. Easton and C.A. Hutton**

Biosynthesis of Aristeromycin: The Role of (1*R*,2*R*,3*S*,4*S*)-1-Hydroxymethylcyclopentane-2,3,4-triol
D.H.G. Crout, J. Hanrahan, H. Navratilova, K.A. Shoberu, D.W. Hutchinson and S.M. Roberts

Cycloadditions of Ketene Acetals under Microwave Irradiation in Solvent-free Conditions
A. Diaz-Ortiz, E. Diez-Barra, A. De La Hoz, P. Prieto and A. Moreno

Reactions of Nitrile Oxides and Nitrile Imines with Derivatives of 4,5-Dihydrooxazole and 4,5-Dihydrothiazole and with Related Compounds **R.M. Scrowston, P.D. Kennewell, D.J. Miller and R. Westwood**

Rearrangement of Alkyl Phenyl Ethers to Alkylphenols in the Presence of Cation-exchanged Montmorillonite (Mn²⁺-Mont)
S. Oemura, H. Horiuchi, T. Nishimura and J.-I. Teteiwa

The Preparation of Diorganolead Dicarboxylates from Aryllead Triacetates. An Investigation of Ligand Coupling in some Diorganolead(IV) Compounds **J.T. Pinhey, C.J. Parkinson and J. Morgan**

