

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

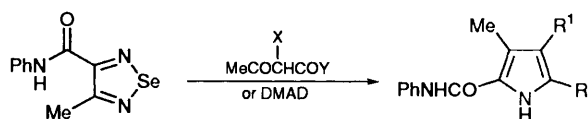
Organic and Bio-organic Chemistry

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Perkin Communications

- 2201 **A novel one-pot synthesis of pyrroles from 1,2,5-selenadiazole and 1,3-diketones**

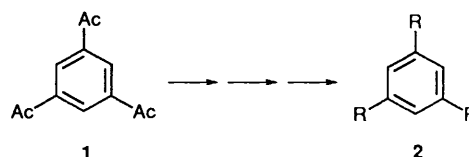
Taisei Ueda, Chiharu Uchida, Shin-ichi Nagai and Jinsaku Sakakibara



X = Me, H; Y = Me, OEt, NPh, Ph; R¹ = COMe, CO₂Et, CONHPh, CPh, Me, H, CO₂Me; R² = Me, CO₂Me

- 2203 **Potassium benzene-1,3,5-triyltris(ethynethiolate): a new core reagent for dendrimer synthesis**

Gerrit L'abbé, Bart Haelterman and Wim Dehaen



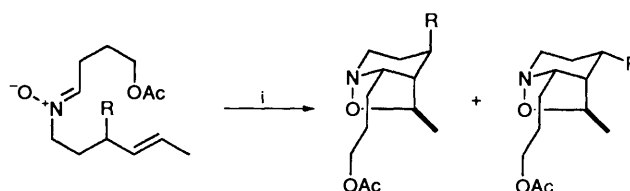
R = C≡C-S⁻K⁺

The new trifunctional core template **2** is readily synthesized from 1,3,5-triacetylbenzene **1** in a three-step procedure

Articles

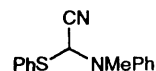
- 2205 **N-Alkenyl nitron dipolar cycloaddition routes to piperidines and indolizidines. Part 6. Allylic stereocontrol in the intramolecular cyclisation of monosubstituted nitrones**

Ian Collins, Alan Nadin, Andrew B. Holmes, Martin E. Long, Jocelyn Man and Raymond Baker



2217 **2-(*N*-Methylanilino)-2-phenylsulfanylacetonitrile, a reagent tested for electrophilic, nucleophilic and radical reactions**

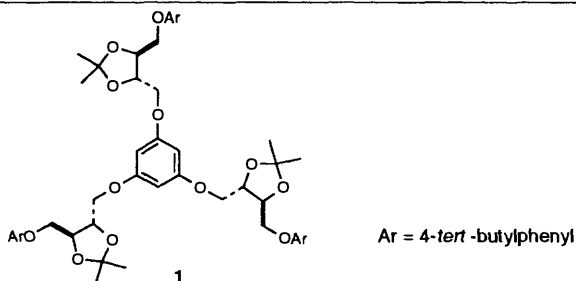
Chih-Cheng Chen, Same-Ting Chen,
Tsung-Hsun Chuang and Jim-Min Fang



The title compound has been converted into the corresponding conjugated aminoalkenenitriles, carbamates and varied α -amino nitriles

2223 **Synthesis and structure–optical rotation relationships of homochiral, monodisperse, tartaric acid-based dendrimers**

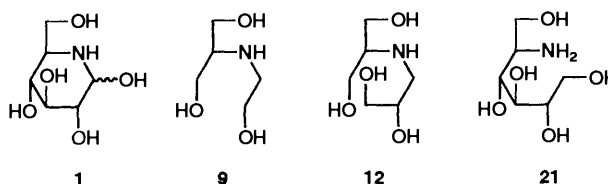
Hak-Fun Chow and Chi Ching Mak



(2*R*,3*R*)-Tartaric acid has been used to construct optically active, homochiral, monodisperse generation zero dendrimer **1** and generation one dendrimer

2229 **Synthesis and biological activity of acyclic analogues of nojirimycin**

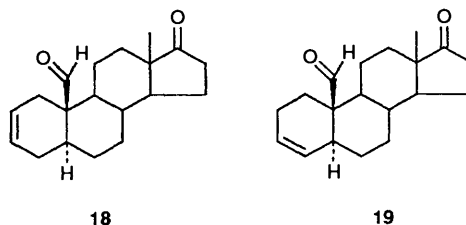
Paul A. Fowler, Alan H. Haines, Richard J. K. Taylor, Ewan J. T. Chrystal and Michael B. Gravestock



Several amino alcohols, *e.g.* **9**, **12** and **21**, which mimic important structural elements in nojirimycin **1**, have been prepared and their properties as inhibitors of yeast α -glucosidase and as anti-HIV agents measured

2237 **Synthesis of and chemical model reaction studies with 3-deoxyandrogens: evidence supporting a 2,3-enolization hypothesis in human placental aromatase catalysis**

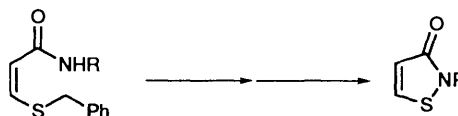
Soonjin S. Oh and Cecil H. Robinson



Compounds **18** and **19** have been synthesized and subjected to a chemical model for aromatase, as has the Δ^4 -analogue **31**

2245 **A general synthesis of *N*-substituted isothiazol-3(2*H*)-ones**

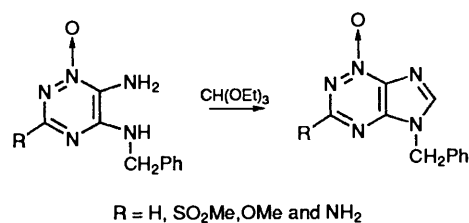
Nigel R. A. Beeley, Laurence M. Harwood
and Paul C. Hedger



N-Substituted (*Z*)-3-(benzylsulfanyl)propenamides are converted into the corresponding *N*-substituted isothiazol-3(2*H*)-ones *via* sulfoxidation and cyclisation with trichloroacetic acid

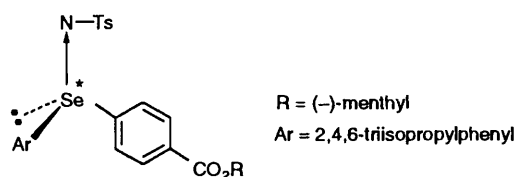
2253 **Condensed 1,2,4-triazines: synthesis of 5-benzyl-5*H*-imidazo[4,5-*e*]-1,2,4-triazine 1-oxides (9-benzyl-6-azapurine 6-oxides)**

Cherng-Chyi Tzeng, Dau-Chang Wei, Long-Chih Hwang, Ming-Chu Cheng and Yu Wang



2257 **Synthesis and stereochemistry of optically active selenonium imides**

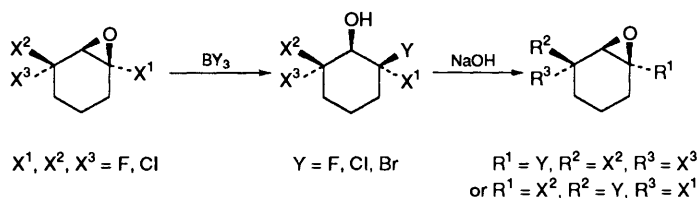
Nobumasa Kamigata, Hideo Taka, Ayumi Matsuhisa, Haruo Matsuyama and Toshio Shimizu



Optically pure selenonium imide was isolated by optical resolution, and the stereochemistry and the kinetics for epimerization were studied

2265 **Highly selective ring-opening of 1,3,3-trihalogenoepoxycyclohexanes by boron trihalides; methodology for the determination of the regioselectivity in the cyclisation of 2,2,6,6-tetrahalogenocyclohexanols**

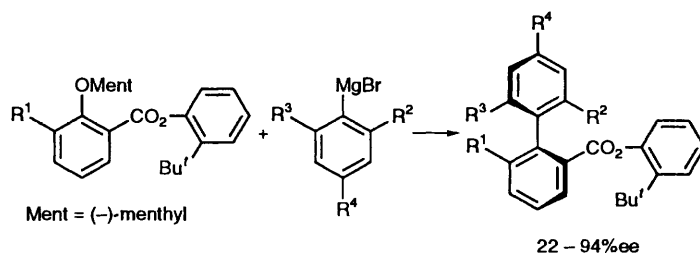
Pierre Duhamel, Bertrand Leblond, Laure Bidois-Séry and Jean-Marie Poirier



The *cis*-opening of epoxides is always obtained; the regioselectivity of the cyclisation can be predicted to obtain a new epoxide; sequences of cyclisation halogenation allowed the preparation of all the diastereoisomers of fluorohydrins ($X, Y = \text{F, Cl}$)

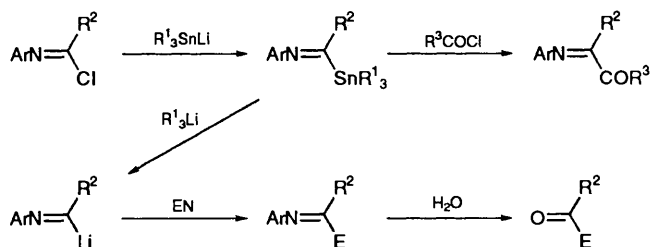
2273 **Asymmetric synthesis of axially chiral 1,1'-biphenyl-2-carboxylates *via* nucleophilic aromatic substitution on 2-menthoxybenzoates by aryl Grignard reagents**

Tetsutaro Hattori, Nobuyuki Koike and Sotaro Miyano



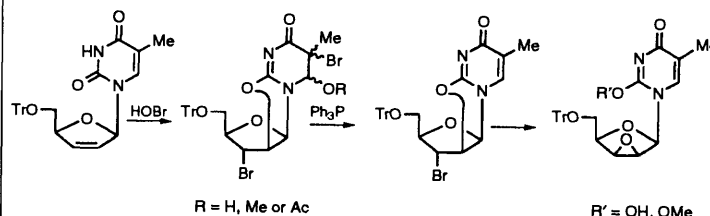
2283 **Imidoystannanes, improved preparation and uses as acylanion equivalents**

Bernard Jousseume, Nathalie Vilcot, Alfredo Ricci and Edward R. T. Tiekink



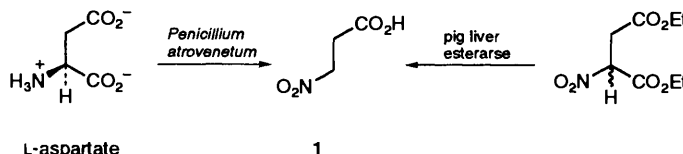
2289 **Highly efficient synthesis of 2,2'-anhydro-1-(3'-bromo-3'-deoxy-5'-O-trityl- β -D-arabinofuranosyl)thymine and its derivatives from an unsaturated thymine nucleoside**

Katsumaro Minamoto, Masataka Oishi, Akikazu Kakehi, Naoki Ohta, Isamu Matsuda, Kenji Watanabe, Kazufumi Yanagihara, Toyohide Takeuchi and Keizo Tanigawa



2297 **The fungal biosynthesis of 3-nitropropionic acid: is the decarboxylation of L-nitrosuccinate an enzymatic reaction?**

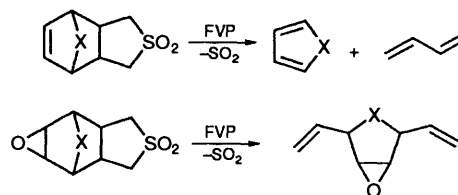
Robert L. Baxter, Shona L. Smith, Jennifer R. Martin and A. Bryan Hanley



PLE hydrolysis of diethyl (\pm)-nitrosuccinate affords 3-nitropropionate

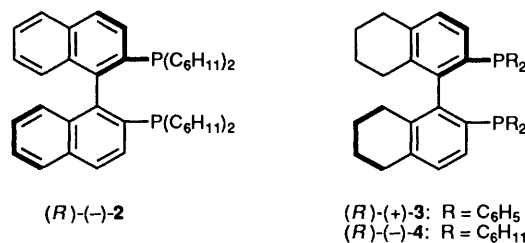
2301 **Fragmentation patterns in the gas-phase pyrolysis of some bi- and tri-cyclic sulfolanones related to the 8-thiabicyclo[4.3.0]non-3-ene 8,8-dioxide ring system**

R. Alan Aitken, J. I. G. Cadogan, Ian Gosney and Stephen F. Newlands



2309 **Synthesis of partially hydrogenated 2,2'-bis(diphenylphosphanyl)-1,1'-binaphthyl (BINAP) ligands and their application to catalytic asymmetric hydrogenation**

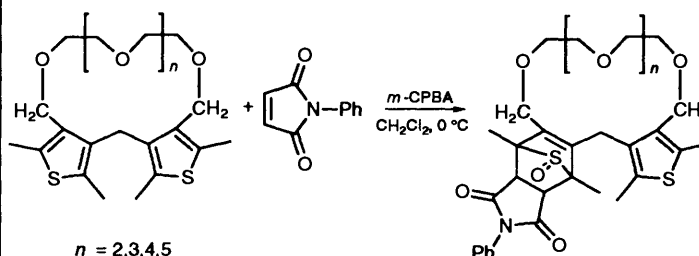
Xiaoyong Zhang, Kazushi Mashima, Kinko Koyano, Noboru Sayo, Hidenori Kumobayashi, Susumu Akutagawa and Hidemasa Takaya



Unique structural features and catalytic potentiality of the transition-metal complexes of these ligands are shown

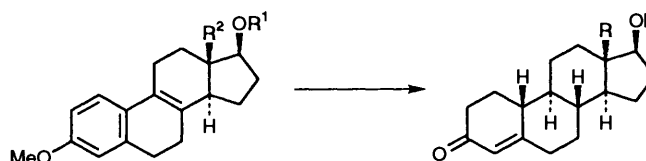
2323 **Novel crown ethers by oxidative cycloaddition of thiopheno crown ethers**

YuanQiang Li, Thies Thiemann, Tsuyoshi Sawada and Masashi Tashiro



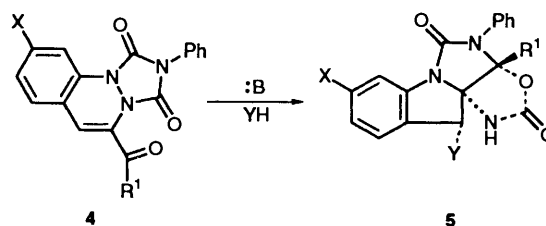
2331 **Direct conversion of 13 β -alkylgonatetraenes into 13 β -alkylgon-4-en-3-ones**

Panicker Bijoy, Uma Ramachandran and G. S. R. Subba Rao



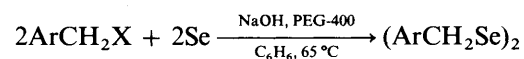
2335 **Formation of tetracyclic oxazolidinones from cycloadducts of benzylidene ketones with 4-phenyl-4,5-dihydro-3H-1,2,4-triazole-3,5-dione (PTAD) by base-promoted backbone participation and rearrangement**

Satoko Tanaka, Kazuyoshi Seguchi, Kuniaki Itoh and Akira Sera



2341 **Convenient synthesis of dibenzyl diselenides under phase transfer conditions**

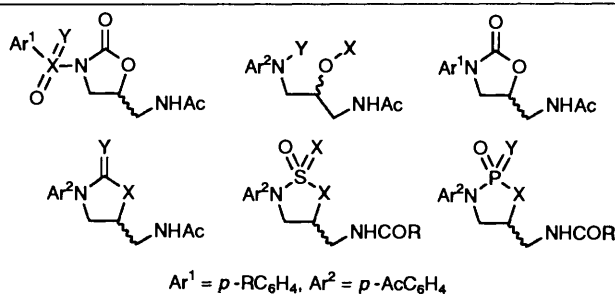
Jin-Xian Wang (Chin-Hsien Wang), Wenfeng Cui and Yulai Hu



Ar = C₆H₅, MeC₆H₄, O₂NC₆H₄, BrC₆H₄, ClC₆H₄
X = Cl, Br

2345 **Synthesis and antimicrobial activity of oxazolidin-2-ones and related heterocycles**

Pierfausto Seneci, Marco Caspani, Franca Ripamonti and Romeo Ciabatti



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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. Kita, N. Shibata, N. Yoshida and S. Fujita

Regioselective Friedel-Crafts Acylation of 2,3,4,5-Tetrahydro-1*H*-benzazepine and Related Nitrogen Heterocycles

Y. Ishihara, T. Tanaka, S. Miwatashi and G. Goto

Photochemical Synthesis of Tricyclic β -Lactams and the Isomerization to β -Thiolactones

M. Sakamoto, M. Takahashi, M. Yoshiaki, T. Fujita, S. Watanabe and H. Aoyama

[1,4] Phenylsulfanyl Migrations in the Rearrangement of 2,4,4-Tris(phenylsulfanyl)butanols **S. Warren and M.-J. Villa**

Dramatic Effects of Fused-quinones and Diaryl Groups on Thermal Decomposition of Diarylcyclopropanes

T. Oshima, K. Tamada and T. Nagai

Facile Biocatalytic Reduction of the Carbon-Carbon Double Bond of 5-Benzylidenethiazolidine-2,4-diones. Synthesis of (+)-5-(4-(2-[Methyl(pyridin-2-yl)amino]ethoxy)benzyl)thiazolidine-2,4-dione (BRL 49653), its (*R*)-(+)-Enantiomer and Analogues

B.C.C. Cantello, D.S. Eggleston, D. Haigh, R.C. Haltiwanger, C.M. Heath, R.M. Hindley, K.R. Jennings, J.T. Sime and S.R. Woroniecki

On the Reactions of (Vinylimino)- λ^3 -phosphanes and Related Compounds. Part 29. Synthesis and Chemical and Structural Properties of 1*H*-Cyclohepta[*b*]indeno[2,1-*d*]pyrrole and Acenaphtho[1,2-*b*]cyclohepta[*d*]pyrrole

M. Nitta, Y. Iino and K. Kamata

The Phosphorylation of Organic Compounds by Phosphoric Anhydride. Part 4. Synthesis of Monosubstituted Ketenes in the Reaction of Esters with Phosphoric Anhydride. Cyclotrimerization of Ketenes

J.C. Tebby, D.A. Efremov and P.M. Xavlin

Asymmetric Induction in the Electrocyclisation Reactions of 1,3 Dipolar Intermediates: the 1,7 Cyclisation of Diene-conjugated Diazo-compounds to give 1*H*-2,3-Benzodiazepines **J.T. Sharp, A.J. Blake and M. Harding**

A New Route to Oxazolidinones **M. Le Corre and D. Delaunay**

Unusual Formation of Tricyclic Annulenediones. Diatropic Cationic 10-Electron Species in D₂SO₄

J. Ojima, H. Higuchi, C. Sakon, K. Asano, M. Iyoda, K. Inoue and G. Yamamoto

Solvent Assisted Hydrosilylation of Alk-1-yne Catalysed by a Rhodium Complex. Complete Reversal of Stereoselectivity

R. Takeuchi and N. Tanouchi

A Chiral Synthesis of a Trinorguaiane Sesquiterpene, Clavukerin A **T. Honda, H. Ishige and H. Nagase**

Conversion of Chiral Oxiranes to Chiral Aziridines with Retention of Configuration by way of 'Chiral Episulfonium Ions'

A. Toshimitsu, H. Abe, C. Hirosawa and K. Tamao

Catalytic Asymmetric Synthesis of γ -Hydroxy Ketones and Aromatic Hydroxy Ketones by the Chemo- and Enantio-selective Alkylation of Keto Aldehydes with Dialkylzincs **K. Soai and M. Watanabe**

Complementary Enantioselective Approaches to the Quinolizidine Alkaloids Lupinine and Epilupinine by Enolate Claisen Rearrangements or Direct Allylation of Piperidine-2-acetic Acid Derivatives **D.W. Knight, C. Morley and A.C. Share**

