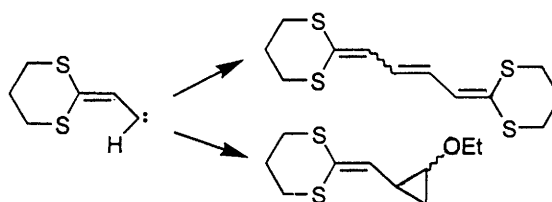


Communications

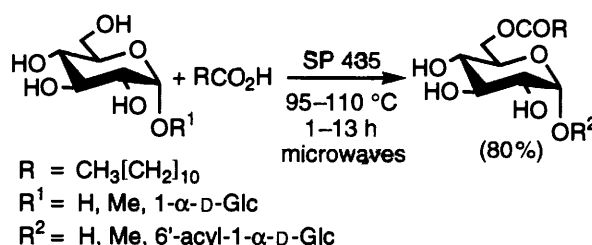
- 2773 **Generation and trapping of 1,3-dithian-2-ylidene-substituted ethyl carbene. On the existence of 4,8-dithiaspiro[2.5]oct-1-ene**

Hans-Georg Schwarz and Ernst Schaumann



- 2777 **Lipase-catalysed esterification of some α -D-glucopyranosides in dry media under focused microwave irradiation**

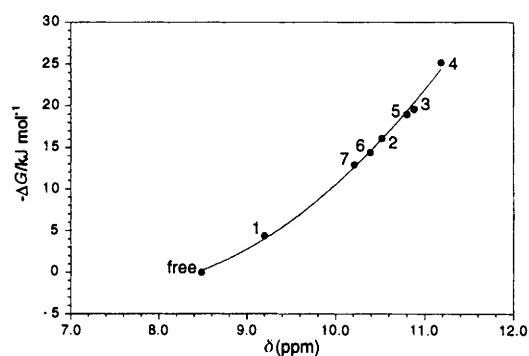
Mirjana Gelo-Pujic, Eryka Guibé-Jampel, André Loupy, Saskia A. Galema and Daniel Mathé



Articles

- 2781 **Enthalpic (electrostatic) contribution to the chelate effect: a correlation between ligand binding constant and a specific hydrogen bond strength in complexes of glycopeptide antibiotics with cell wall analogues**

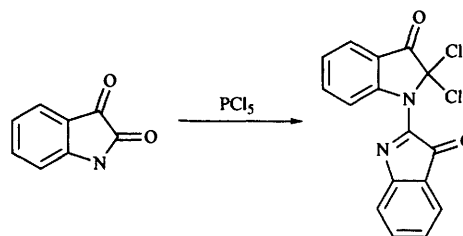
Mark S. Searle, Gary J. Sharman, Patrick Groves, Bellinda Benhamu, Daniel A. Beauregard, Martin S. Westwell, Robert J. Dancer, Alison J. Maguire, Andrew C. Try and Dudley H. Williams



The strength of a specific hydrogen bond increases as neighbouring interactions are added on the same template, demonstrating an enthalpic component to the chelate effect

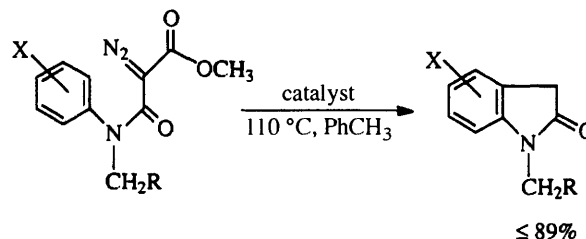
- 2787 **Isatin chloride: a phantom. Reactions of 2-(2,2-dichloro-2,3-dihydro-3-oxoindol-1-yl)-3H-indol-3-one**

Sir John Cornforth, Peter B. Hitchcock and Panteleimon Rozos



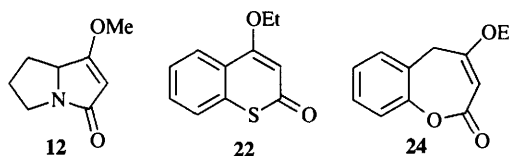
- 2793 **Effects of catalysts on the cyclization of 2-diazo-2-methoxycarbonyl-N-aryl-N-alkylethanamides**

Keith Smith and Dawoud Bahzad



- 2799 **Domino syntheses of five-, six- and seven-membered O-, N- and S-heterocycles from α -, β - and γ -substituted carboxylic esters**

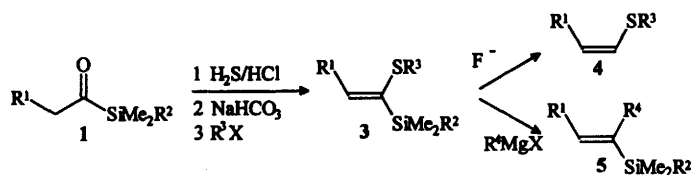
J. Löffler and R. Schobert



Compounds like these are preparable in one pot from ketenylidene(triphenyl)phosphorane and differently substituted esters

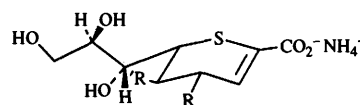
- 2803 **Chemistry of silyl thioketones. Part 10. Synthesis and reactivity of α -silyl vinyl sulfides**

Bianca Flavia Bonini, Mauro Comes-Franchini, Mariafrancesca Fochi, Germana Mazzanti, Francesca Peri and Alfredo Ricci



- 2811 **Synthesis and biological evaluation of sulfur isosteres of the potent influenza virus sialidase inhibitors 4-amino-4-deoxy- and 4-deoxy-4-guanidino-Neu5Ac2en**

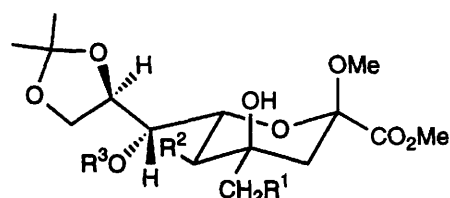
Gaik B. Kok, Michael Campbell, Brendan Mackey and Mark von Itzstein



R = NH₂ or NHC(NH)NH₂
R' = NHAc

- 2817 **Synthesis of C-4-disubstituted analogues of N-acetylneuraminic acid**

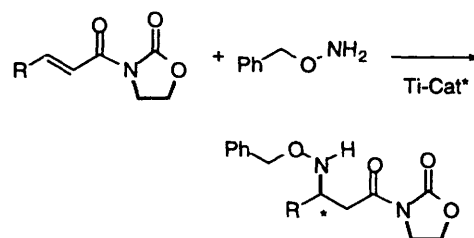
Darrin R. Groves and Mark von Itzstein



R¹ = N₃, OMe, CN, or Cl R² = NHAc R³ = H or Ac

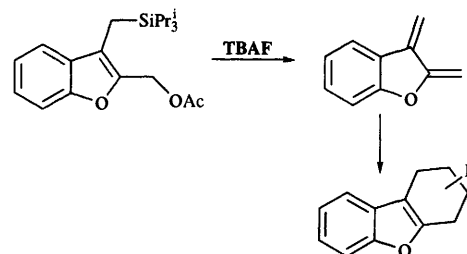
- 2823 **Asymmetric titanium-catalysed Michael addition of *O*-benzylhydroxylamine to α,β -unsaturated carbonyl compounds: synthesis of β -amino acid precursors**

Lise Falborg and Karl Anker Jørgensen



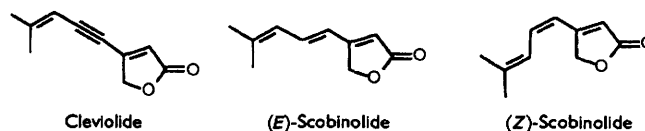
- 2827 **Ambient temperature method for the generation and Diels–Alder trapping of benzofuran-2,3-quinodimethane (2,3-dimethylidene-2,3-dihydrobenzofuran)**

Simon B. Bedford, Michael J. Begley, Philip Cornwall, Joel P. Foreman and David W. Knight



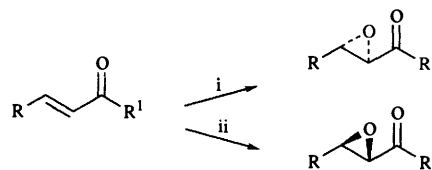
- 2833 **Synthesis of cleviolide and the scobinolides**

Gregory J. Hollingworth, Alexandre M. E. Richecoeur and Joseph Sweeney



- 2837 **Development of the Juliá asymmetric epoxidation reaction. Part 2. Application of the oxidation to alkyl enones, enediones and unsaturated keto esters**

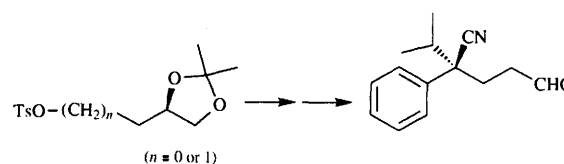
Wolfgang Kroutil, M. Elena Lasterra-Sánchez, Samuel J. Maddrell, Patrick Mayon, Phillip Morgan, Stanley M. Roberts, Steven R. Thornton, Christine J. Todd and Melek Tüter



A variety of α,β -unsaturated ketones have been oxidised to the corresponding epoxides in good to excellent yield and enantiomeric excess using basic peroxide and either (i) poly-L-leucine or (ii) poly-D-leucine as the catalyst

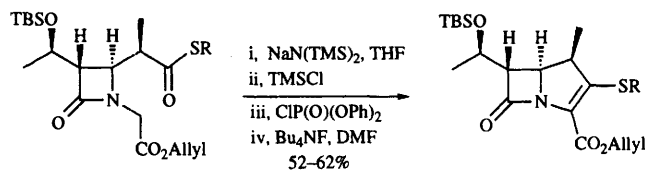
- 2845 **Convenient synthesis of (2*R*)- and (2*S*)-2-(1-methylethyl)-5-oxo-2-phenylpentanenitrile, intermediates in the preparation of phenylalkylamine calcium channel blockers**

Jeremy Gilmore, Will Prowse, David Steggle, Michael Urquhart and Jennifer Olkowski



- 2851 **Efficient synthesis of 1 β -methyl-carbapenems based on the counter-attack strategy**

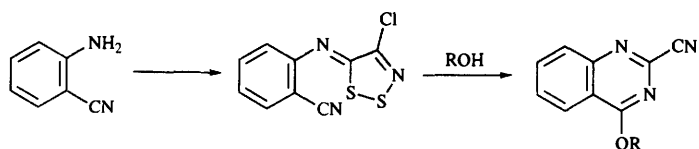
Masahiko Seki, Kazuhiko Kondo and Tameo Iwasaki



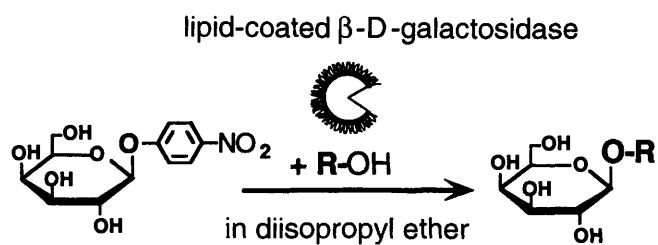
Reformatsky reaction, Dieckmann-type cyclisation, counter-attack reagent, 1 β -methylcarbapenem

2857 New route to 4-alkoxyquinazoline-2-carbonitriles

Thierry Besson and Charles W. Rees

**2861 Effective transgalactosylation catalysed by a lipid-coated β -D-galactosidase in organic solvents**

Yoshio Okahata and Toshiaki Mori



AUTHOR INDEX

- Bahzad, Dawoud, 2793
Beauregard, Daniel A., 2781
Bedford, Simon B., 2827
Begley, Michael J., 2827
Benhamu, Bellinda, 2781
Besson, Thierry, 2857
Bonini, Bianca Flavia, 2803
Campbell, Michael, 2811
Comes-Franchini, Mauro, 2803
Cornforth, Sir John, 2787
Cornwall, Philip, 2827
Dancer, Robert J., 2781
Falborg, Lise, 2823
Fochi, Mariafrancesca, 2803
Foreman, Joel P., 2827
Galema, Saskia A., 2777
Gelo-Pujic, Mirjana, 2777
Gilmore, Jeremy, 2845
Groves, Darrin R., 2817
Groves, Patrick, 2781
Guibé-Jampel, Eryka, 2777
Hitchcock, Peter B., 2787
Hollingworth, Gregory J., 2833
Iwasaki, Tameo, 2851
Jørgensen, Karl Anker, 2823
Knight, David W., 2827
Kok, Gaik B., 2811
Kondo, Kazuhiko, 2581
Kroutil, Wolfgang, 2837
Lasterra-Sánchez, M. Elena, 2837
Löffler, J., 2799
Loupy, André, 2777
Mackey, Brendan, 2811
Maddrell, Samuel J., 2837
Maguire, Alison J., 2781
Mathé, Daniel, 2777
Mayon, Patrick, 2837
Mazzanti, Germana, 2803
Morgan, Phillip, 2837
Mori, Toshiaki, 2861
Okahata, Yoshio, 2861
Olkowski, Jennifer, 2845
Peri, Francesca, 2803
Prowse, Will, 2845
Rees, Charles W., 2857
Ricci, Alfredo, 2803
Richecoeur, Alexandre M. E., 2833
Roberts, Stanley M., 2837
Rozos, Panteleimon, 2787
Schaumann, Ernst, 2773
Schobert, R., 2799
Schwarz, Hans-Georg, 2773
Searle, Mark S., 2781
Seki, Masahiko, 2581
Sharman, Gary J., 2781
Smith, Keith, 2793
Steggles, David, 2845
Sweeney, Joseph, 2833
Thornton, Steven R., 2837
Todd, Christine J., 2837
Try, Andrew C., 2781
Tüter, Melek, 2837
Urquhart, Michael, 2845
von Itzstein, Mark, 2811, 2817
Westwell, Martin S., 2781
Williams, Dudley H., 2781



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

Forthcoming Articles in *Perkin Transactions 1*

Enantiodivergent synthesis of *cis*- and *trans*-4-aminocyclohex-2-enols *via* palladium catalysis
R.G.P. Gatti, A.L.E. Larsson and J.-E. Backvall

Total syntheses of (+)-asperlin, (+)-acetylphomalactone and (5*S*,6*S*,7*R*,8*S*)-asperlin based on the kinetic resolution of 2-furylmethanol
Z.-C. Yang, X.-B. Jiang, Z.-M. Wang and W.-S. Zhou

Formation and synthetic use of oxygen-centred radicals with (diacetoxyiodo)arenes
H. Togo, T. Muraki, Y. Hoshina and M. Yokoyama

Glyceryl ether monooxygenase [EC 1.14.16.5]. Part IX. Stereospecificity of the oxygenase reaction
H. Taguchi, B. Paal and W.L.F. Armarego

Amino acids bearing nucleobases for the synthesis of novel peptide nucleic acids
G. Lowe and T. Vilaivan

Dipeptides bearing nucleobases for the synthesis of novel peptide nucleic acids
G. Lowe and T. Vilaivan

Solid phase synthesis of novel peptide nucleic acids
G. Lowe and T. Vilaivan

Phototransformation of 5-*tert*-butyl-2'-deoxyuridine: An approach to the synthesis of new 2,3,5,6-tetrahydrocyclobuta[*d*]pyrimidin-2-ones
R.T. Walker, I. Basnak, D.M. Kinnell, N. Spencer, A. Balkan and P.R. Ashton

Juncins G and H: the new briarane diterpenoids of the Indian Ocean Gorgonian *Junceella juncea* Pallas
A.S.R. Anjaneyulu and N.S.K. Rao

Chiral and stereoselective total synthesis of (–)-mesembranol starting from D-glucose
N. Chida, K. Sugihara, S. Amano and S. Ogawa

Reactions of sulfonyl chlorides with silyl enol ethers catalysed by a ruthenium(II) phosphine complex. A convenient synthetic method to β -keto sulfones
N. Kamigata, K. Udodaira and T. Shimizu

An unexpected Mitsunobu reaction. A direct route to the 2,5-diazabicyclo[2.2.1]heptan-3-one skeleton as a γ -lactam mimic of β -lactam antibiotics
P.S. Hadfield, R. Galt, Y. Sawyer, N. Layland and M.I. Page

Acidity effect in the regiochemical control of the alkylation of phenol with alkenes
G. Sartori, F. Bigi, R. Maggi and A. Arienti

Synthesis of cyclobutanephosphonic amino acid analogues of glutamic acid *via* diethyl 3-oxocyclobutanephosphonate, a versatile synthetic intermediate
J. Hanrahan, P.C. Taylor and W. Errington

Chemoselective N-deprotection of *tert*-butyl *N*-trifluoroacetyl-2-amino esters under PTC conditions: synthesis of *tert*-butyl 2-aminocarboxylic esters
D. Albanese, F. Corcella, D. Landini, A. Maia and M. Penso

First cyclooctatetraene azo dyes
Z.V. Todres and G. T.S. Hovsepyan

Stable Cu⁺, Ag⁺ complexes of aza-bridged macrocyclic molecules: structure and chemical properties
H. Takemura, N. Kon, K. Tani, K. Takehara, J. Kimoto, T. Shinmyozu and T. Inazu

Syntheses of gibberellins A₉₃ and A₉₄, natural products detected in wheat grain
S. Findlow, P.A. Harrison, M. Penny, C.L. Willis, P. Gaskin and J.R. Lenton

Sequential and regioselective Friedel–Crafts reactions of *gem*-dihalogenocyclopropanecarbonyl chlorides with benzenes for the synthesis of 4-aryl-1-naphthol derivatives
Y. Nishi and Y. Tanabe

Synthesis and NMR studies of key intermediates to a new class of β -lactam: the trinems
C. Marchioro, G. Pentassuglia, A. Perboni and D. Donati