

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

Organic and Bio-organic Chemistry

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Keynote Article

- 3049 **Unimolecular chain transfer (UMCT) reactions: concepts, preliminary results with silicon hydrides, and future potential**

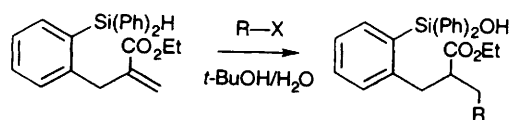
Dennis P. Curran, Jinyou Xu and Edoardo Lazzarini



Perkin Communications

- 3061 **'Giese-type' radical addition reactions to an acceptor that functions by a unimolecular chain transfer reaction of a silicon hydride**

Dennis P. Curran and Jinyou Xu

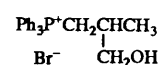


- 3065 **Design of new phosphonium salt host compounds**

Fumio Toda, Koichi Tanaka and Hirotoishi Sawada



Tetraphenylphosphonium
salt host compound

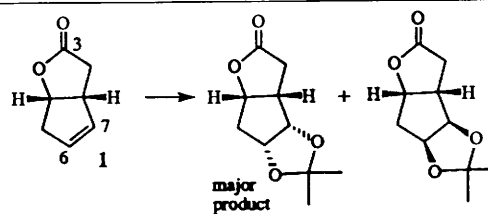


Chiral phosphonium
bromide host

Articles

3067 Studies on the stereoselectivity of osmylation of *cis*-bicyclo[3.3.0]oct-6-enes

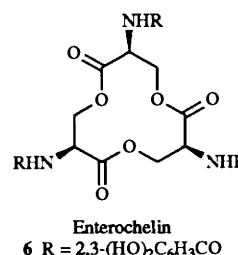
Nigel Broom, Peter J. O'Hanlon, Thomas J. Simpson, Rosamund Stephen and Christine L. Willis



Osmylation of **1** occurs predominantly from the *endo* face due to a directing effect from the lactone carbonyl at C-3

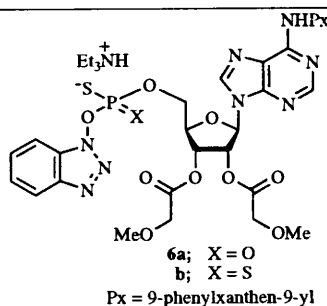
3073 Synthesis of Enterochelin

Henry J. Rogers



3077 Aminolysis and alkaline hydrolysis of protected 1-hydroxybenzotriazol-1-yl esters of adenosine 5'-phosphorothioate and -phosphorodithioate

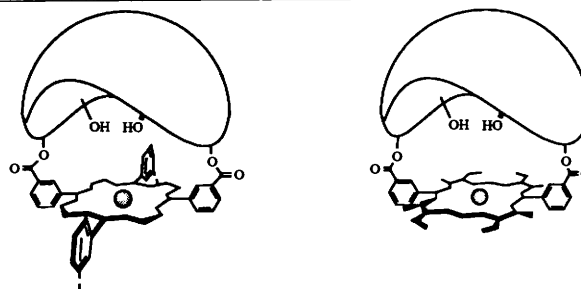
Colin B. Reese, Louise H. K. Shek and Zhengyun Zhao



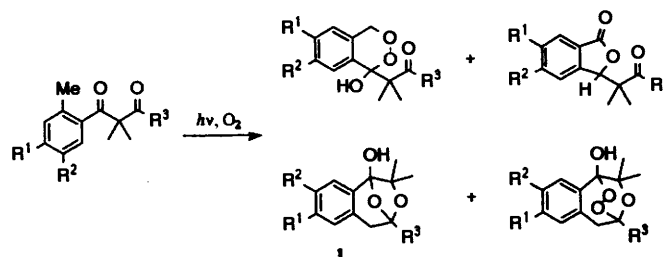
The reactions of **6a** and **6b** with alcoholic methylamine, morpholine in THF and sodium hydroxide in aqueous dioxane are described

3085 Synthesis of cyclocholeate-capped porphyrins

Richard P. Bonar-Law and Jeremy K. M. Sanders

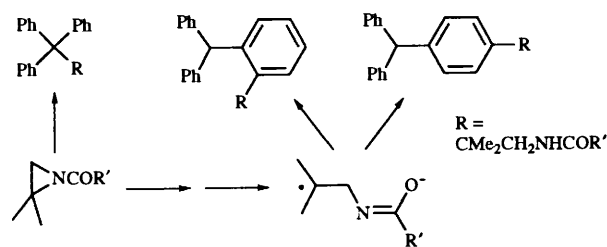
3097 Photochemical reaction of 1-(*o*-methylaryl)-2,2-dimethyl 1,3-diketones in the presence of oxygen

Michikazu Yoshioka, Kaori Nishizawa, Johji Suzuki, Yasuhiro Iwata, Shigekazu Kumakura and Tadashi Hasegawa



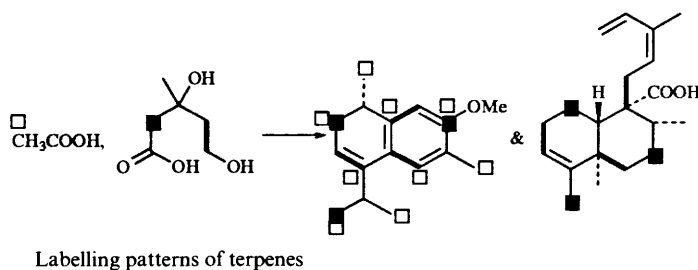
3103 Three positional isomers of substituted triphenylmethanes from reactions of trityl anion with 1-acyl-2,2-dimethylaziridines

Jürgen Werry, Pen-Yuan Lin, Petros Assithianakis and Helmut Stamm



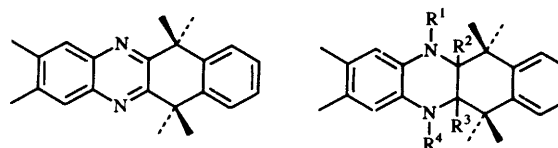
- 3111 **Sesqui- and di-terpene biosynthesis from ^{13}C labelled acetate and mevalonate in cultured cells of *Heteroscyphus planus***

Kensuke Nabeta, Takehiro Ishikawa and Hiroshi Okuyama



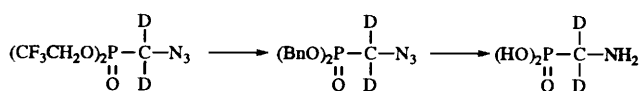
- 3117 **Synthesis and oxidative behaviour of reduced indeno[1,2-*b*]quinoxalines and benzo[*b*]phenazines**

David W. Brown, Mary F. Mahon, Aleyamma Ninan and Malcolm Sainsbury



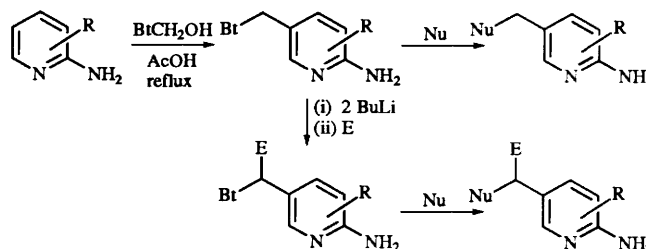
- 3125 **New route to amino[$^2\text{H}_2$]methylphosphonic acid via bis(trifluoroethyl) phosphonate transesterification**

Sylvie Berté-Verrando, Rachel Dizière, Mohammad Samadi and Philippe Savignac



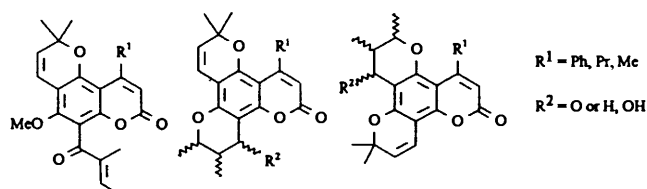
- 3129 **Conversions of 2-aminopyridines into 5-substituted derivatives mediated by 1-hydroxymethylbenzotriazole**

Alan R. Katritzky, Saad El-Zemity and Hengyuan Lang



- 3135 **Synthesis of the *Calophyllum* coumarins. Part 2**

Christopher J. Palmer and Jonathan L. Josephs



Synthesis of the natural coumarins from *Calophyllum* sp. are reported together with some structural corrections

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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*

Taxol and taxane formation in plant cell culture

P. Heinstein, J-Y Zhou, M. Wang, Y-C. Liu, X-Y. Chen, D. Chen, S.H. Hoke, R.G. Cooks and C-J. Chang

Synthesis of methyl 4-aryl-6-methyl-4,7-dihydropyrazolo[3,4-*b*]pyridine-5-carboxylates from 3,4-dihydropyrid-2(1*H*)-ones
Y. Verdecia, M. Suarez, A. Morales, E. Rodriguez, E. Ochoa, L. Gonzalez, N. Martin, M. Quinteiro, C. Seone and J.L. Soto

Structure of new anthocyanin-derived wine pigments

H. Fulcrand, P.J. Cameira dos Santos, P. Sarni-Manchado, V. Cheynier and J. Favre-Bonvin

Intramolecular Diels-Alder additions to 2-benzopyran-3-ones: *endo*-selective additions and some reactions of the adducts
D.W. Jones and M. Nongrum

Photolysis of fluorodiphenylamines **P.W. Groundwater, D. Hughes, M.B. Hursthouse and R. Lewis**

Generation and synthetic applications of episulfone α -anions

R.J.K. Taylor, A.E. Graham, W.A. Loughlin, M.H. Moore, S.M. Pyke and G. Wilson

Diastereoselective synthesis of 2,5-disubstituted 3-hydroxypyrrolidine and 2,6-disubstituted 3-hydroxypiperidine derivatives by radical cyclisation **Y. Yuasa, J. Ando and S. Shibuya**

Synthesis of polyester dendrimers **P.C. Taylor, D.M. Haddleton, H.S. Sahota and S.G. Yeates**

Enantioselective synthesis of the 13-membered macrodiolide bartanol

C. L. Willis, J.A. O'Neill, S.D. Lindell and T.J. Simpson

Preparation and chemistry of new unsymmetrically substituted tetrachalcogenofulvalenes bearing $-X(CH_2)_2CN$ and $-X(CH_2)_2OH$ groups as functionalities ($X = S; Se$) **J-M. Fabre, L. Binet, C. Montginoul, K.B. Simonsen and J. Becher**

Synthetic studies towards the clerodane insect antifeedant jodrellin A: preparation of a polycyclic model compound with antifeedant activity **S.V. Ley, A.C. Cunat, D. Diez-Martin and F.J. Montgomery**

Synthesis and study of 3-(triphenylphosphoranylidene)-2*H*-indol-2-one **K.E. Litinas and G.E. Lathourakis**

Synthetic studies towards pseudopterosin A **T. Frejd, L. Eklund and I. Sarvary**

Stereospecific synthesis of (2*S*,4*R*)-[5,5,5- 2H_3]leucine **D.W. Young, R.A. August, J.A. Khan and C.M. Moody**

Anomalous reactivity of hydroxy-1,3-dienes: absence of alleged intramolecular retardation **D.W. Jones and P. Glossop**

Total synthesis of 3-hydroxy-6-oxaestra-1,3,5(10)-trien-17-one **Z. Cao and J.G. Liehr**

Formal total synthesis of trichodiene *via* regioselective photochemical [2+2] cycloaddition

M. Tada, Y. Kitano, J. Fukuda and K. Chiba

Diphenylphosphorus(V) group monosaccharide compounds derived from methyl 2,3-di-*O*-isopropylidene- α -D-mannofuranoside **J.L. Wardell, M.A. Brown, P.J. Cox, R.A. Howie and O.A. Melvin**

Strong solid base reagents and catalysts based on carbonaceous supports **R.S. Drago and K. Jurczyk**

1,5-Diborabicyclo[3.3.3]undecane; thermolysis of the product from hydroboration of triallylborane with triethylamine-borane
R.W. Alder and Z. Jin

Photochemical reactions of 1-naphthylamines and haloforms. Formation of bis(4-amino-1-naphthyl)methyl cation salts with remarkably long-wave electronic absorption **K. Maeda, Y. Horikoshi, M. Hayashi, Y. Mori and H. Nagano**

Synthesis and effects on arginase and nitric oxide synthase of two novel analogues of *N*-hydroxyarginine, *N*-hydroxyindospicine and *p*-hydroxyamidinophenylalanine **D. Mansuy, S. Vadon, J. Custot and J-L. Boucher**

Radical addition to carbenoids. Chain reactions of α -diazo carbonyl compounds with triorganotin hydrides, with tris(trimethylsilyl)silane and with allyltributylstannane **H-S. Dang and B.P. Roberts**

