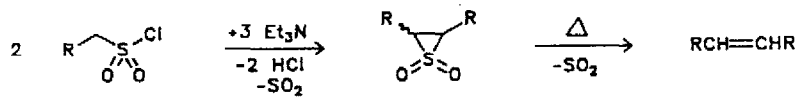
GRAPHICAL ABSTRACTS

Tetrahedron Lett. 30, 3131 (1989)

SYMMETRISCHE ALKENE ÜBER EPISULFONE AUS PRIMÄREN SULFONYLCHLORIDEN

Günter Opitz*, Thomas Ehlis, Karlheinz Rieth
Organisch-Chemisches Institut der Universität,
Im Neuenheimer Feld 270, D-6900 Heidelberg, Bundesrepublik Deutschland



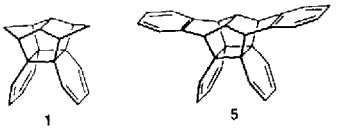
R= H, Alk, Ar.

Tetrahedron Lett. 30, 3133 (1989)

DOMINO and PINCER CYCLOADDITIONS with syn-o,o'-DIBENZENES SCOPE and π-FACIAL STEREOSELECTIVITY

Wolf-Dieter Fessner, Clemens Grund, Horst Prinzbach,
Chemisches Laboratorium der Universität Freiburg i.Br.

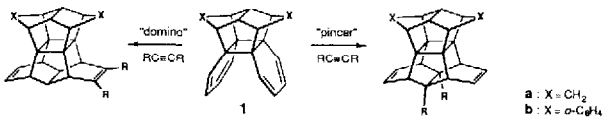
The syn-o,o'-dibenzene units in **1** and **5** capture a range of dienophiles with changing π-facial stereoselectivity.



Tetrahedron Lett. 30, 3137 (1989)

DOMINO and PINCER CYCLOADDITIONS with syn-o,o'-DIBENZENES PRESSURE DEPENDENCE and MECHANISTIC IMPLICATIONS

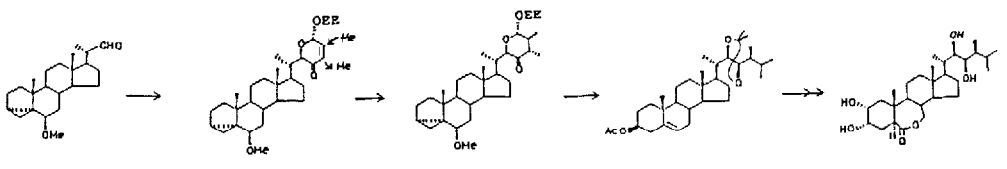
Frank-Gerrit Klärner, Uwe Artschwager-Perl, Fakultät für Chemie der Universität Bochum.- Wolf-Dieter Fessner, Clemens Grund, Rolf Pinkos, Johann-Peter Melder, H. Prinzbach, Chemisches Laboratorium der Universität Freiburg i.Br.



Tetrahedron Lett. 30, 3141 (1989)

STEREOCONTROLLED SYNTHESIS OF THE BRASSINOLIDE SIDE CHAIN VIA A PYRANONE DERIVATIVE

Tetsuji Kametani,+ Katsuyuki Keino, Masaharu Kigawa, Masayoshi Tsubuki, and Toshio Honda*
Institute of Medicinal Chemistry, Hoshi University, Ebara 2-4-41, Shinagawa-ku, Tokyo 142, Japan

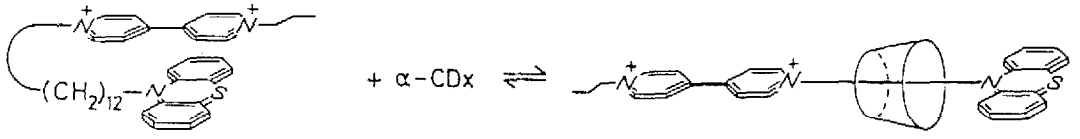


Tetrahedron Lett. 30, 3143 (1989)

ANOMALOUSLY STABLE CYCLODEXTRIN COMPLEXES OF PHENOTHIAZINE-VIOLOGEN LINKED COMPOUNDS WITH A LONG SPACER CHAIN

H. Yonemura, H. Saito, S. Matsushima, H. Nakamura, and T. Matsuo* Department of Organic Synthesis, Faculty of Engineering, Kyushu University, Fukuoka 812, Japan

Distinct NMR signals due to stable cyclodextrin (CDx) complexes were detected by the use of phenothiazine-viologen linked compounds.

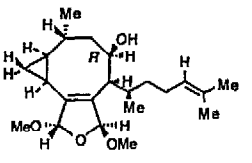


Tetrahedron Lett. 30, 3147 (1989)

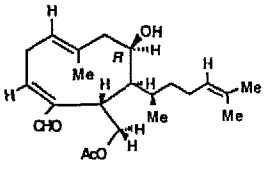
ABSOLUTE CONFIGURATIONS OF MARINE DITERPENES POSSESSING A XENICANE SKELETON. AN APPLICATION OF AN ADVANCED MOSHER'S METHOD

Ikuko Ohtani, Takenori Kusumi, Midori O. Ishitsuka, and Hiroshi Kakisawa*
Department of Chemistry, The University of Tsukuba, Tsukuba, Ibaraki, Japan 305

By means of Mosher's method using ^{1}H NMR spectroscopy at 500 MHz the absolute configurations of marine diterpenes, 7 and 8, have been elucidated.



7



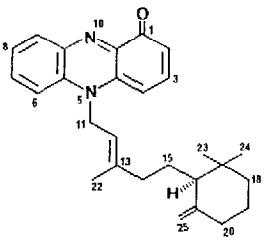
8

Tetrahedron Lett. 30, 3151 (1989)

STRUCTURE OF PHENAZINOMYCIN, A NOVEL ANTITUMOR ANTIBIOTIC

Shinji Funayama, Shigeru Eda, Kanki Komiyama and Satoshi Ōmura*; The Kitasato Institute, and School of Pharmaceutical Sciences, Kitasato University, 5-9-1 Shirokane, Minato-ku, Tokyo 108, Japan

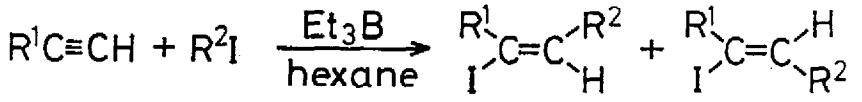
Takashi Tokunaga; Pharmaceutical Research Laboratories, Japan Tobacco Inc., 6-2 Umegaoka, Midori-ku, Yokohama 227, Japan



Tetrahedron Lett. 30, 3155 (1989)

TRIETHYLBORANE-INDUCED RADICAL ADDITION OF ALKYL IODIDES TO ACETYLENES

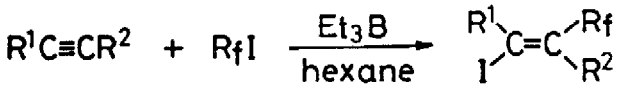
Yoshifumi Ichinose, Shin-ichiro Matsunaga, Keigo Fugami, Koichiro Oshima,* and Kiitiro Utimoto*
Department of Industrial Chemistry, Faculty of Engineering
Kyoto University, Sakyo-ku, Kyoto, 606 Japan



Tetrahedron Lett.30,3159(1989)

TRIETHYLBORANE-INDUCED STEREOSELECTIVE RADICAL ADDITION OF PERFLUOROALKYL IODIDES TO ACETYLENES

Yoshihiro Takeyama, Yoshifumi Ichinose, Koichiro Oshima,* and Kiitiro Utimoto*
Department of Industrial Chemistry, Faculty of Engineering, Kyoto University, Sakyo-ku, Kyoto 606, Japan

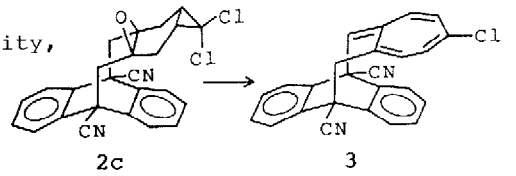


Tetrahedron Lett.30,3163(1989)

1,11-*o*-BENZENO[2]ORTHOCYCLO[1](6,8)HEPTAFULVENOPHANE A NEW ROUTE TO HEPTAFULVENE FROM 8,8-DICHLORO-3-ALKYL-4-OXATRICYCLO[5,1,0,$0^{3,5}$]OCTANE

Y. Fukazawa,* T. Okajima, and S. Usui,
Department of Chemistry, Hiroshima University, Hiroshima 730, Japan

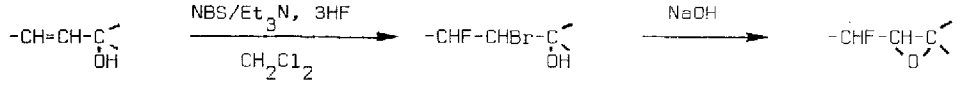
The title compound **3** was obtained by treating dichloro-epoxide(**2c**) with $TiCl_4$ in benzene solution.



Tetrahedron Lett.30,3167(1989)

BROMOFLUORATION DES ALCOOLS ALLYLIQUES PAR NBS/Et_3N, 3HF : UNE VOIE SIMPLE D'ACCES AUX EPIFLUORHYDRINES.

Ikram CHEHIDI, Mohamed Moncef CHAABOUNI et Ahmed BAKLOUTI*
Département de Chimie, Faculté des Sciences de Tunis,
Campus Universitaire 1060 TUNIS, TUNISIE.

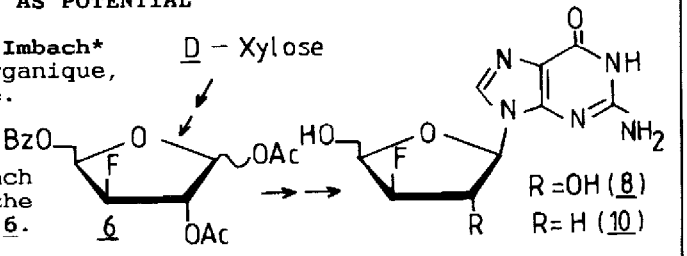


Tetrahedron Lett.30,3171(1989)

SYNTHESIS OF 9-(3-DEOXY- AND 2,3-DIDEOXY-3-FLUORO-β-D-XYLOFURANOSYL)GUANINES AS POTENTIAL ANTIVIRAL AGENTS

G. Gosselin, F. Puech and J.L. Imbach*
USTL, Laboratoire de Chimie Bioorganique, 34060 Montpellier-Cédex 1, France.

The first synthesis of the title compounds **8** and **10** was accomplished by a multi-step approach involving prior preparation of the suitably protected fluorosugar **6**.

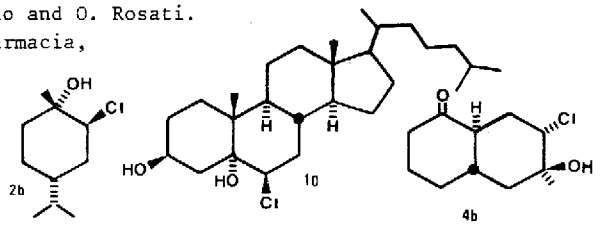


Tetrahedron Lett.30,3175(1989)

TRANS 1,2-FUNCTIONALIZATION OF CYCLOALKENES USING SELENIUM INTERMEDIATES.

P. Ceccherelli*, M. Curini, M.C. Marcotullio and O. Rosati.
Istituto di Chimica Organica, Facoltà di Farmacia, Università degli Studi, Perugia, Italy.

Trisubstituted olefins react with excess PhSeCl to give corresponding trans chlorohydrins (2b, 4b, 10) in a completely regio- and stereospecific fashion.

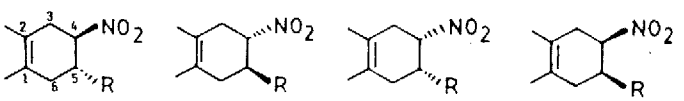


Tetrahedron Lett.30,3179(1989)

ENANTIOSELECTIVE SYNTHESIS OF CYCLOHEXENE NITROALDEHYDES

M. Ch. Moreno, J. Plumet, E. Román, and J. A. Serrano*, Departamento de Química Orgánica, Universidad de Extremadura, 06071 Badajoz, Spain; M. L. Rodríguez and C. Ruiz Pérez, Centro de Productos Naturales Orgánicos "Antonio González", Universidad de La Laguna, Carretera de La Esperanza, 2, 38206 La Laguna, Tenerife, Spain.

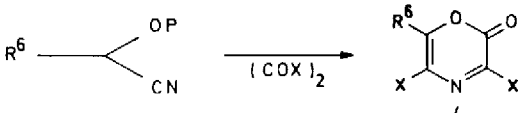
2-5 (R=CHO) have been obtained via Diels-Alder reaction with sugar-nitroolefins as chiral dienophiles.



Tetrahedron Lett.30,3183(1989)

SYNTHESIS OF 3,5-DIHALOGENO-2H-1,4-OXAZIN-2-ONES FROM CYANOHYDRINES

L. Meerpoel and G. Hoornaert, Department of Chemistry, KULeuven, B-3030 Leuven, Belgium



3a = P = H
3b = P = $SiMe_3$

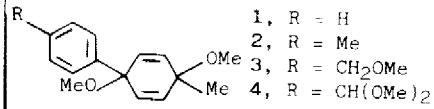
R^6 = H, alkyl, aryl
X = Cl, Br

Tetrahedron Lett.30,3187(1989)

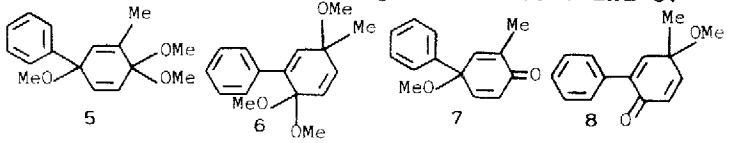
ANODIC OXIDATION OF ALKYLATED BIPHENYLS. SYNTHETIC ROUTES TO CERTAIN CYCLOHEXA-1,4-DIENES

Isidoro Barba*, Rafael Chinchilla and Cecilia Gómez. División de Química Orgánica, Universidad de Alicante, P.O. Box 99, Alicante, Spain.

Anodic methoxylation of 3-phenyltoluene, 4-phenyltoluene and 4,4'-dimethylbiphenyl afforded the new dienes **1-6**. Hydrolysis of 5 and 6 gave ketones **7** and **8**.



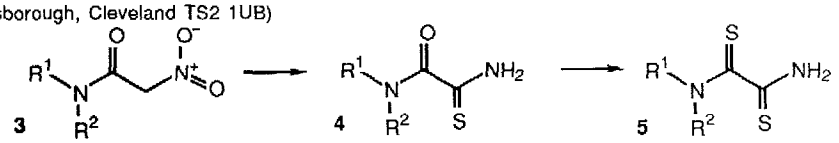
1, R = H
2, R = Me
3, R = CH_2OMe
4, R = $CH(OMe)_2$



Tetrahedron Lett. 30, 3189 (1989)

THE REACTION OF NITROACETAMIDES WITH THIONATION REAGENTS SYNTHESIS OF MONO- AND DITHIO- OXALIC ACID DIAMIDES

By Philip A. Harris#, Arthur Jackson+, and John A. Joule#*(# Chemistry Department, Manchester University, Manchester, M13 9PL; + Fine Organics Ltd., Seal Sands, Middlesborough, Cleveland TS2 1UB)

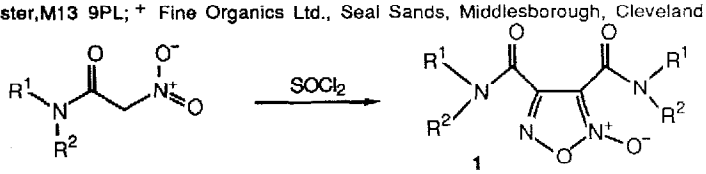


Nitroacetamides, **3**, react with thionation reagents to give amide-thioamides, **4**, then dithiodiamides, **5**.

Tetrahedron Lett. 30, 3193 (1989)

THE FORMATION OF FUROXAN-3,4-DICARBOXAMIDES FROM NITROACETAMIDES

By Philip A. Harris#, Arthur Jackson+, and John A. Joule#* (# Chemistry Department, Manchester University, Manchester,M13 9PL; + Fine Organics Ltd., Seal Sands, Middlesborough, Cleveland TS2 1UB)



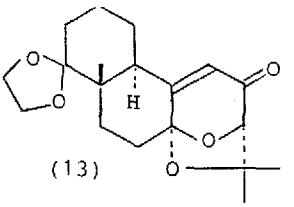
Secondary and tertiary nitroacetamides are converted, by treatment with thionyl chloride at room temperature, directly into furoxan-3,4-dicarboxamides, **1**.

Tetrahedron Lett. 30, 3197 (1989)

TOWARDS PASPALICINE : SYNTHESIS OF RINGS D-G

Amin Ali and J. Edwin Saxton*
School of Chemistry, The University of Leeds, Leeds LS2 9JT

The synthesis of the β-pyrone ketal (13), which constitutes rings D-G of the mould metabolite paspalicine, is described.



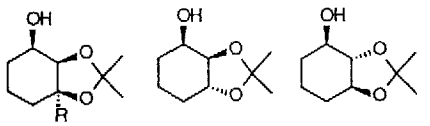
(13)

Tetrahedron Lett. 30, 3201 (1989)

THE SYNTHESIS OF CHIRAL ISOPROPYLIDENE DERIVATIVES OF 1,2,3-CYCLOHEXANETRIOLS BY ENZYMATIC DIFFERENTIATION

L. Dumortier, J. Van der Eycken and M. Vandewalle*
State Univ. Gent, Dept. Org. Chem., Krijgslaan, 281 (S4), B-9000 GENT (Belgium)

Some 2,3-O-Isopropylidene-1-cyclohexanols have been obtained with high % ee by enzymatic hydrolysis of corresponding esters.



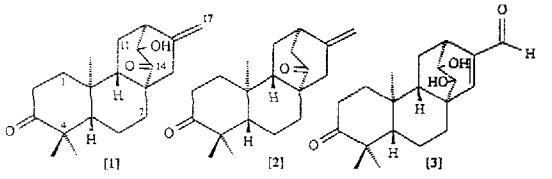
R = H or Me

Tetrahedron Lett. 30, 3205 (1989)

NEW OXIDISED ENT-ATISENE DITERPENES FROM EUPHORBIA FIDJIANA

A.R. Lal, R.C. Cambie*, P.S. Rutledge, P.D. Woodgate, C.E.F. Rickard and G.R. Clark
Department of Chemistry, University of Auckland, Auckland, New Zealand

Euphorbia fidjiana heartwood has yielded the oxygenated ent-atisane diterpenoids [1], [2], and [3].

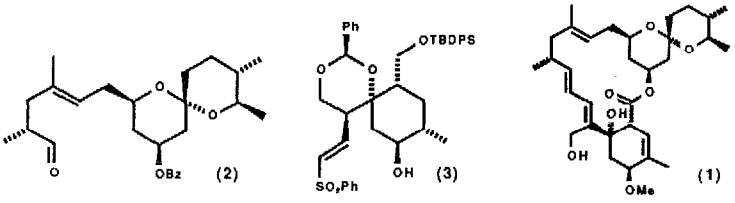


Tetrahedron Lett. 30, 3209 (1989)

TOTAL SYNTHESIS OF (+) - MILBEMYCIN β_1

Neville J. Anthony, Alan Armstrong, Steven V. Ley* and Andrew Madin.
Department of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AY, U.K.

The successful sulphone anion stabilised coupling of a monocyclic C-1 to C-10 unit (3) with the "northern hemisphere" C-11 to C-25 fragment (2) of the milbemycins produces a compound which may be further elaborated in fourteen steps to the macrocyclic natural product (+) - milbemycin β_1 (1).

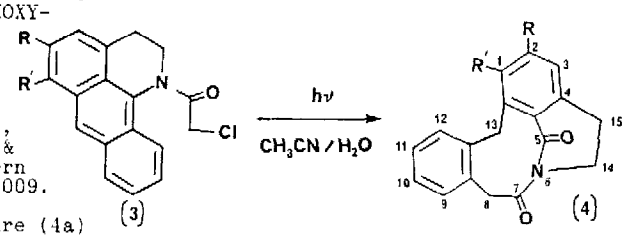


Tetrahedron Lett. 30, 3213 (1989)

PHOTOLYSIS OF CHLOROACETAMIDES AS A ROUTE TO NEW 2,8-BRIDGED ISOQUINOLINE DERIVATIVES. X-RAY CRYSTAL STRUCTURE OF 8,13-DIHYDRO-2-METHOXY-4,6-ETHANODIBENZ[c,f]AZONINE-5,7-DIONE.

J.B.Bremner[a], W.Jaturonrusmee[a], L.M.Engelhardt[b], and A.H.White[b].
[a]Department of Chemistry, University of Tasmania, GPO Box 252C, Hobart, Tasmania, Australia 7001. [b]Department of Physical & Inorganic Chemistry, University of Western Australia, Nedlands, Western Australia 6009.

a) R=OMe,R′=H b) R=R′=OMe X-ray structure (4a)

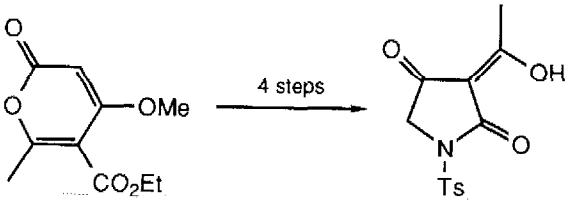


Tetrahedron Lett. 30, 3217 (1989)

A NEW STRATEGY FOR THE SYNTHESIS OF 3-ACYLTETRAMIC ACIDS

Raymond C.F. Jones * and Jacqueline M. Patience
(Chemistry Department, Nottingham University, Nottingham NG7 2RD, U.K.)

The potential of pyrones as precursors to 3-acyltetramic acids has been demonstrated by the conversion of 5-ethoxycarbonyl-4-methoxy-6-methyl-2-pyrone into a 3-acetyltetramic acid.

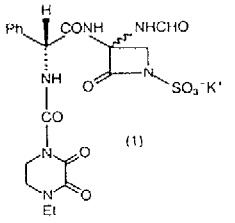


Tetrahedron Lett. 30, 3219 (1989)

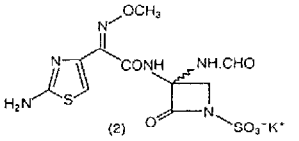
SYNTHESIS OF NOVEL 3-FORMAMIDO-3-ACYLAMINO-MONOBACTAMS

Clive L. Branch, Stephen C. Finch*, and Michael J. Pearson.
Beecham Pharmaceuticals, Research Division, Brockham Park, Betchworth, Surrey, RH3 7AJ, England.

The syntheses and antibacterial activities of the acylamino monobactams (1) and (2) are described.



(1)

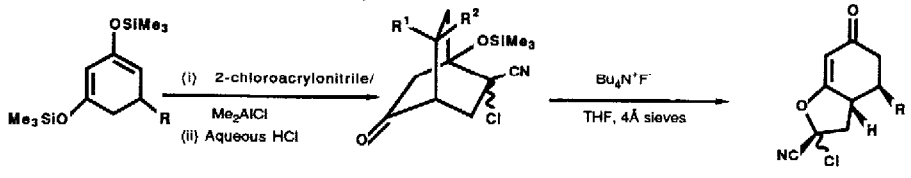


(2)

Tetrahedron Lett. 30, 3223 (1989)

LEWIS ACID CATALYSED CYCLOADDITION OF 1,3-BISTRIMETHYLSILYLOXYCYCLOHEXADIENES TO 2-CHLOROACRYLONITRILE. NOVEL REARRANGEMENT OF THE RESULTING ADDUCTS TO CYCLOHEXENONES.

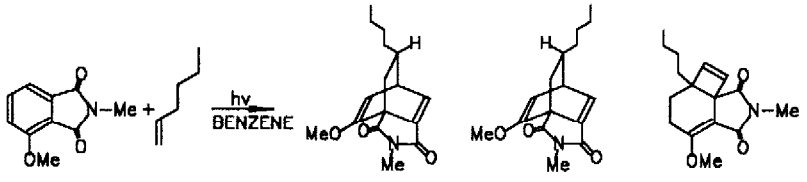
Richard S.J. Clark[§], Andrew B. Holmes[§]*, and Victor G. Matassa[¶]
[§]University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, U.K.
[¶]I.C.I. Pharmaceuticals, Mereside Alderley Park, Macclesfield, Cheshire SK10 4TG. U.K.



Tetrahedron Lett. 30, 3225 (1989)

ORTHO- AND PARA-PHOTOCYCLOADDITIONS OF 3-METHOXY-N-METHYLPHTHALIMIDE TO n-HEXENE

R. Suau*, R. García Segura and F. Sosa Olaya
Dpto. de Química Orgánica. Facultad de Ciencias. Universidad de Málaga. 29071-MALAGA. SPAIN.



Tetrahedron Lett. 30, 3229 (1989)

COBALT-MEDIATED REACTIONS. A NEW SYNTHETIC APPROACH TO β-, γ- and δ-LACTAMS

G. Bryon Gill, Gerald Pattenden* and Stephen J. Reynolds
Department of Chemistry, The University, Nottingham, NG7 2RD

A new synthesis of β-lactams from carbamylcobalt salophens is described.