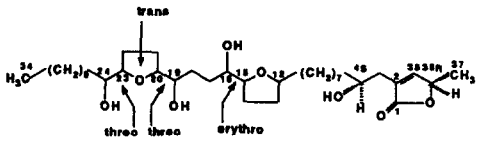
GRAPHICAL ABSTRACTS

Tetrahedron, 45, 6941, (1989)

BULLATALICIN, A NOVEL BIOACTIVE ACETOGENIN FROM *ANNONA BULLATA* (ANNONACEAE)

Yu-hua Hui, J. Kent Rupprecht, Jon E Anderson, Ya-mei Liu, David L. Smith, Ching-jer Chang, and Jerry L. McLaughlin*
Department of Medicinal Chemistry and Pharmacognosy, School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, Indiana 47907

Bullatalicin (1), from the bark of *Annona bullata* (Annonaceae), showed potent ($ED_{50} < 10^{-7}$ mcg/ml) and selective cytotoxic activities for certain human tumor cell lines



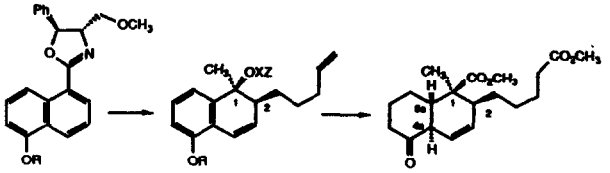
(1)

Tetrahedron, 45, 6949, (1989)

ASYMMETRIC ADDITION TO CHIRAL NAPHTHALENES 5. AN APPROACH TO THE CHLOROTHRICOLIDE SYSTEM

A.I. Meyers*, G.P. Roth, C.D. Rithner
Department of Chemistry, Colorado State University, Fort Collins, CO 80523 USA

A route to the title compound is outlined using asymmetric addition of 1-lithio-4-pentene to the chiral naphthalene.

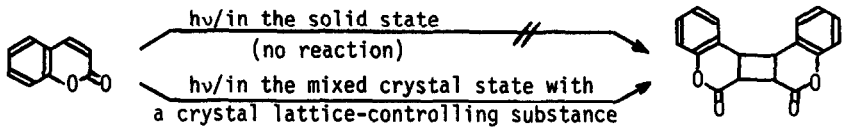


Tetrahedron, 45, 6979, (1989)

SOLID-STATE PHOTODIMERIZATION OF COUMARIN IN THE PRESENCE OF A CRYSTAL LATTICE_CONTROLLING SUBSTANCE.

Ji-ben Meng,[+] De-chao Fu,[+] Xin-Kan Yao,[#] RU_JI WANG,[#] and Teruo Matsuura[*]

[+]Department of Chemistry and [#]Centre Laboratory, Nankai University, Tianjin, China, and [*]Department of Synthetic Chemistry, Faculty of Engineering, Kyoto University. Yoshida, Kyoto 606, Japan.



Tetrahedron, 45, 6987, (1989)

THE ANOMERIC EFFECT OF THE CARBOETHOXY GROUP IN OXYGEN AND SULPHUR CONTAINING HETEROCYCLES

C. Tschierske, H. Köhler, H. Zaschke, E. Kleinpeter(*)

Sektion Chemie der Martin-Luther-Universität Halle-Wittenberg, Weinbergweg 16, DDR-4050 Halle(Saale), G D R

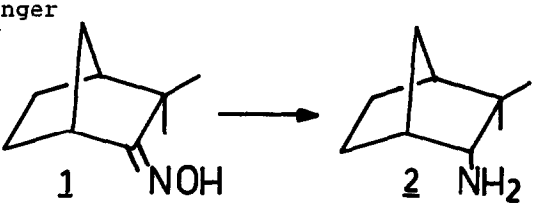
The anomeric effect of carboethoxy in some 1,3-dioxane- and 1,3-oxathiane-2-carboxylates has been estimated by employing empirical steric correlation factors to be ca. 4 kJ/mol per single oxygen. Beside the 6-membered ring interconversion, a second conformational equilibrium about the ring-COOR bond has been identified from unusual solvent dependences of the different compounds; relevant preferred conformers have been assigned owing to special $\pi_{CO}/3d(S)$ orbital interactions. Chemical shift arguments parallel the conclusions obtained.

Tetrahedron, 45, 6999, (1989)

A STUDY OF SELECTIVE OXIME REDUCTION METHODS

The title compound **2** is easily available by selective reduction of oxime **1** with $TiCl_4/NaBH_4$ or $Na°/nC_3H_7OH$.

H. Spreitzer, G.Buchbauer and Ch.Püringer
Institute of Pharmaceutical Chemistry
University of Vienna,
Währingerstr. 10
A-1090 Vienna



Tetrahedron, 45, 7003, 1989)

DETERMINATION OF THE ABSOLUTE CONFIGURATION OF α-DAMASCONE AND α-IONONE FROM BLACK TEA BY ENANTIOSELECTIVE CAPILLARY GAS CHROMATOGRAPHY

Wilfried A. König*[a], Petra Evers[a], Ralph Krebber[a], Stefan Schulz[a], Charles Fehr[b], and Gunther Ohloff[b]

[a]Institut für Organische Chemie, Universität Hamburg, D-2000 Hamburg 13, FRG

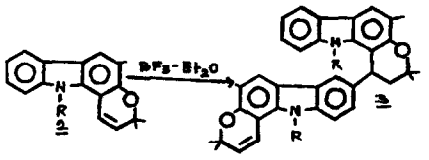
[b]Firmenich SA, Research Laboratories, CH-1211 Geneva 8, Switzerland

Tetrahedron, 45, 7007, (1989)

A NOVEL ACCESS TO BIS-CARBAZOLE ALKALOIDS: SUBSTITUENT EFFECT ON THE EFFIENCY AND REGIO-SELECTIVITY IN BF_3-Et_2O MEDIATED INTERMOLECULER COUPLING OF PYRANOCARBAZOLE ALKALOIDS

Amit Chakrabarti and D.P.Chakraborty*
Department of Chemistry,Bose Institute, 93/1,A.P.C.Road,Calcutta-700009,India.

Pyranocarbazoles 2(a-c) afforded binary pyranocarbazoles 3(a-c) under BF_3-Et_2O mediated reaction condition at room temperature.

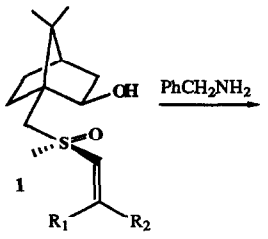


Tetrahedron, 45, 7013, (1989)

CONJUGATE ADDITION OF AMINES TO (R_S)-10-ISOBORNYL VINYL SULFOXIDES.

S. G. Pyne, P. Bloem, R. Griffith, Department of Chemistry, University of Wollongong, Wollongong, N.S.W. 2500, Australia.

The conjugate addition of chiral (E) and (Z) (R_S)-10-Isobornyl vinyl sulfoxides (1) with benzylamine is described.

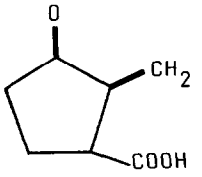


Tetrahedron, 45, 7023, (1989)

TOTAL SYNTHESIS OF (±)-SARKOMYCIN

Marian Mikołajczyk* and Piotr Bałczewski
Centre of Molecular and Macromolecular Studies
PAS, 90-363 Łódź, Sienkiewicza 112, Poland

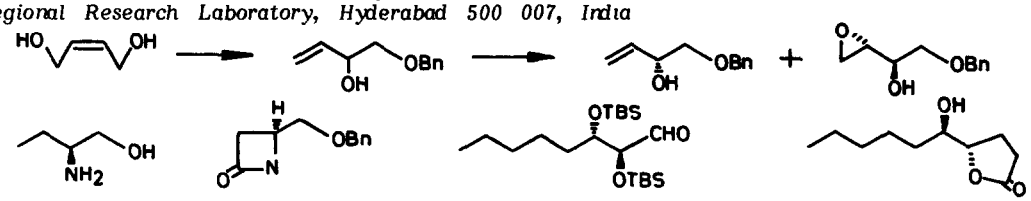
(±)-Sarkomycin is prepared from 2-phenylthiomethyl--cyclopentenone in four steps in 13% overall yield.



Tetrahedron, 45, 7031, (1989)

3-BUTENE-1,2-DIOL: AN ATTRACTIVE PRECURSOR FOR THE SYNTHESIS OF ENANTIOMERICALLY PURE ORGANIC COMPOUNDS

A V Rama Rao, D S Bose, M K Gurjar & T Ravindranathan
Regional Research Laboratory, Hyderabad 500 007, India

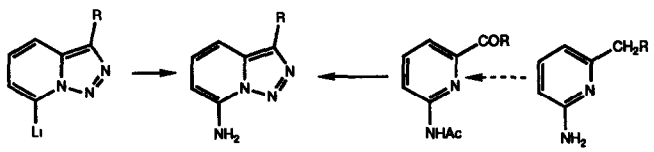


Tetrahedron, 45, 7041, (1989)

TRIAZOLOPYRIDINES. PART 9. THE SYNTHESIS OF 7-AMINOTRIAZOLO(1,2,3)TRIAZOLO(1,5-a)PYRIDINES

Belen Abarca*, Amparo Asensio, Gumos Jones*, and Deborah J. Mouat

Departments of Chemistry, Universities of Valencia, Spain, and Keele, England



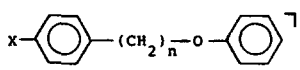
Syntheses of 7-aminotriazolopyridines from lithiotriazolopyridines or 6-aminopyridines

Tetrahedron, 45, 7049, (1989)

ONE ELECTRON OXIDATIONS OF BENZYL AND 2-PHENYLETHYL PHENYL ETHERS. THE FATE OF THE INTERMEDIATE RADICAL CATIONS

E. Baciocchi,[a*] A. Piermattei,[b] C. Rol,[b] R. Ruzziconi,[b] G.V. Sebastiani,[b] Dip. di Chimica, Università di Roma[a] and Perugia[b], Italy

The relative weight of the various reaction paths available to



n = 1, X = H
n = 2, X = H, OCH_3

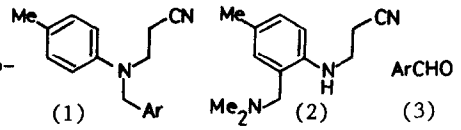
has been investigated by a study of chemical (Ce^{IV}), electrochemical and photochemical one electron oxidations of benzyl phenyl and 2-phenylethyl phenyl ethers.

Tetrahedron, 45, 7063, (1989)

OBSEVATIONS ON THE VILSMEIER REACTION Part 2. THE ANOMALOUS REACTION OF N-BENZYL N-CYANOETHYL-4-METHYL-ANILINE DERIVATIVES.

A. P. Shawcross and S. P. Stanforth*
Department of Chemical & Life Sciences, Newcastle upon Tyne Polytechnic, Newcastle upon Tyne, NE1 8ST.

The reaction of a series of title anilines (1) under Vilsmeier conditions was investigated. Only perfluorobenzyl derivatives showed normal formylation while other fluoro compounds gave mixed results and other substituents gave amine (2) and aldehyde (3).



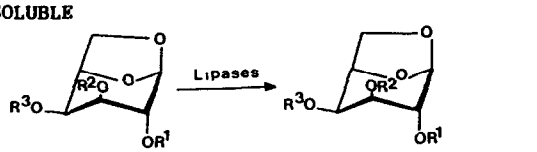
Tetrahedron, 45, 7077, (1989)

REGIOSELECTIVE DEACYLATION OF 1,6-ANHYDRO-β-D-GALACTOPYRANOSE DERIVATIVES CATALYZED BY SOLUBLE AND INMOBILIZED LIPASES

A. Ballesteros*, M. Bernabé, C. Cruzado
M. Martín-Lomas*, and C. Otero

Instituto de Catálisis and Instituto de Química Orgánica. CSIC, 28006-Madrid, Spain.

Depicted acyl-1,6-anhydrogalactopyranoses on treatment with lipases afforded partially deacylated derivatives.

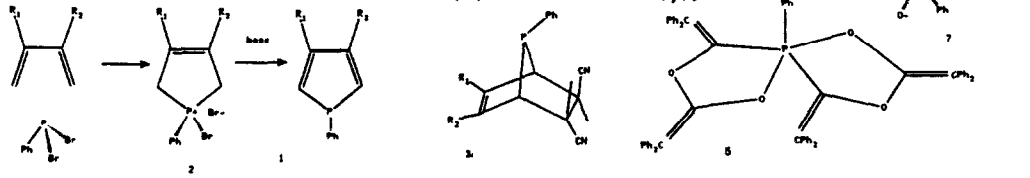


Tetrahedron, 45, 7083, (1989)

CYCLOADDITIONS AND OTHER REACTIONS OF PHOSPHOLES UNDER HIGH PRESSURES

Neil S.Isaacs* and Ghazi Najem El-Din
Department of Chemistry,University of Reading,Reading RG6 2AD,England

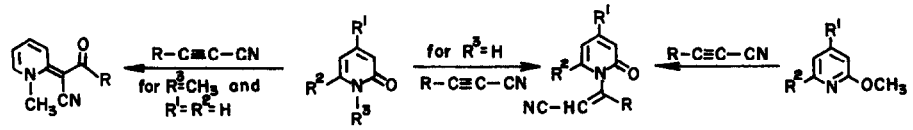
High pressures have been used to synthesise phospholes,1, and to form adducts with fumaronitrile,3,diphenylketen,5, and diazomethane,7.



Tetrahedron, 45, 7093, (1989)

AROMATIC Vs DIENE REACTIVITY OF 2(1H)-PYRIDINONE AND ITS DERIVATIVES

R.Yadla, H.Rehman and Jampani Madhusudana Rao*
Indian Institute of Chemical Technology, Hyderabad 500007, India.
and
V.K.Mahesh, Department of Chemistry, University of Roorkee, Roorkee 247667, India.

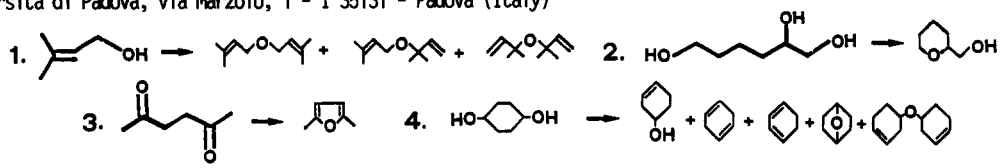


Tetrahedron, 45, 7099, (1989)

ORGANOTINS AS ETHERIFICATION CATALYSTS. III. ETHERIFICATIONS AND HYDRO-HYDROXY-ELIMINATIONS PROMOTED BY BUTYLTIN TRICHLORIDE

Daniele Marton, Pierangelo Slaviero and Giuseppe Tagliavini *
Dipartimento di Chimica Inorganica, Metallorganica e Analitica,
Università di Padova, via Marzolo, 1 - I 35131 - Padova (Italy)

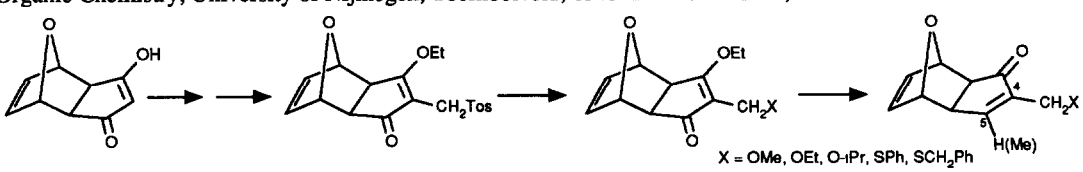
Many dehydration processes, such as **1**, **2**, **3** and **4**, are mediated by butyltin trichloride.



Tetrahedron, 45, 7109, (1989)

SYNTHESIS OF 4- AND 5-SUBSTITUTED 10-OXATRICYCLO-[5.2.1.0^{2,6}]DECADIENONES. FUNCTIONALIZATION OF THE CYCLO-ADDUCT OF FURAN AND CYCLOPENTEN-1,4-DIONE.

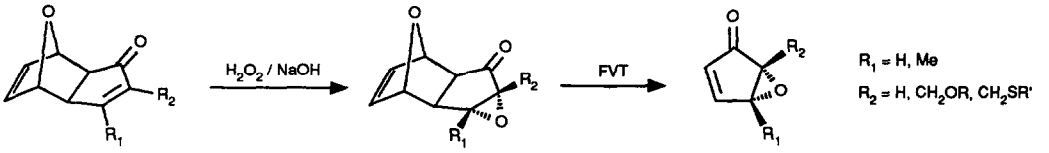
Adrie A. M. Houwen-Claassen, A. J. H. Klunder, M. G. Kooy, J. Steffann and B. Zwanenburg*, Department of Organic Chemistry, University of Nijmegen, Toernooiveld, 6525 ED NIJMEGEN, The Netherlands.



Tetrahedron, 45, 7134, (1989)

SYNTHESIS OF CYCLOPENTADIENONE EPOXIDES FROM 10-OXATRICYCLODECADIENONES.

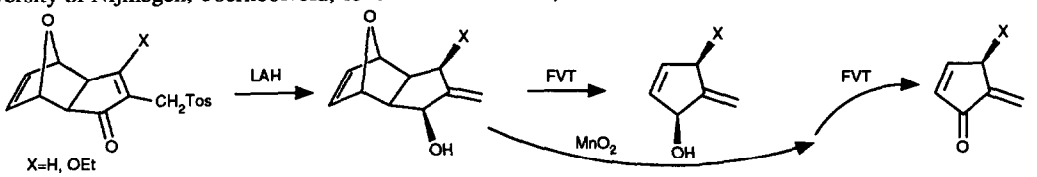
Adrie A. M. Houwen-Claassen, A. J. H. Klunder and B. Zwanenburg*,
Department of Organic Chemistry, University of Nijmegen, Toernooiveld, 6525 ED NIJMEGEN, The Netherlands.



Tetrahedron, 45, 7149, (1989)

SELECTIVE BIS-HYDRIDE REDUCTION OF TOSYLMETHYL-SUBSTITUTED TRICYCLIC ENONES BY LITHIUM ALUMINIUM HYDRIDE. SYNTHESIS OF α-METHYLENE CYCLOPENTENOIDS.

Adrie A. M. Houwen-Claassen, A. J. H. Klunder and B. Zwanenburg*, Department of Organic Chemistry, University of Nijmegen, Toernooiveld, 6525 ED NIJMEGEN, The Netherlands.

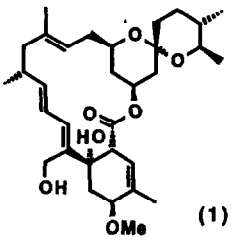


Tetrahedron, 45, 7161, (1989)

A HIGHLY CONVERGENT TOTAL SYNTHESIS OF THE SPIROACETAL MACROLIDE (+)-MILBEMYCIN β_1

Steven V. Ley*, Neville J. Anthony, Alan Armstrong, M. Gabriella Brasca, Trafford Clarke, David Culshaw, Christine Greck, Peter Grice, A. Brian Jones, Barry Lygo, Andrew Madin, Richard N. Sheppard, Alexandra M. Z. Slawin and David J. Williams.
Department of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AY, U.K

The total synthesis of the natural product (+)-milbemycin β_1 (1) is reported.



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Tetrahedron, 45, 7195, (1989)

SYNTHESIS OF 1-OXABICYCLIC β-LACTAM PRECURSORS FROM 4,6-O-BENZYLIDENE-D-ALLAL

Zbigniew Kałuza and Marek Chmielewski*
Institute of Organic Chemistry, Polish Academy of Sciences, 01-224 Warsaw, POLAND