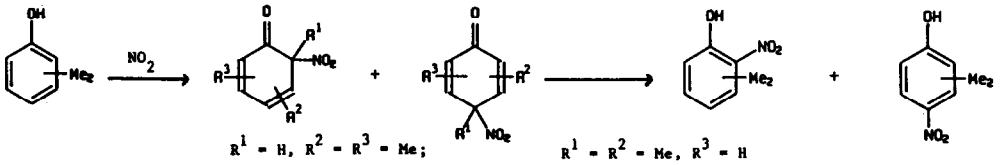
Tetrahedron Lett.29,1869(1988)

FORMATION OF DIENONES ON THE REACTION OF CRESOLS, XYLENOLS, AND 2-NAPHTHOL WITH NITROGEN DIOXIDE: OBSERVATION OF KETO TAUTOMERS OF NITROPHENOLS.

Alfred Fischer* and N. Mathivanan
Department of Chemistry, University of Victoria, Victoria, B. C.,Canada V8W 2Y2

Nitrodienones are the initial products of the above reaction.

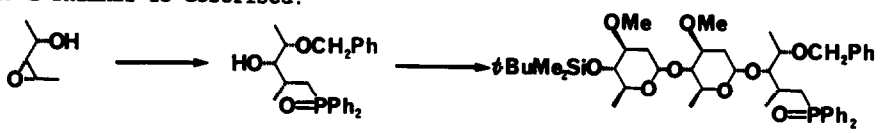


Tetrahedron Lett.29,1873(1988)

APPROACHES TO AVERMECTIN ASSEMBLY: ELABORATION OF AN α-L-OLEANDROSYL-α-L-OLEANDROSIDE DERIVATIVE

Anthony G.M. Barrett* and Todd A. Miller
Department of Chemistry, Northwestern University, Evanston, Illinois 60208

A stereospecific synthesis of the disaccharide moiety of avermectin from 3-pentyn-2-ol and L-rhamnal is described.

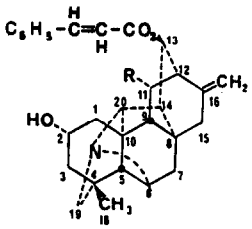


Tetrahedron Lett.29,1875(1988)

FOUR NEW DITERPENOID ALKALOIDS FROM *ACONITUM PALMATUM* Don.

Qingping Jiang and S. William Pelletier*
Institute for Natural Products Research and School of Chemical Sciences, The University of Georgia, Athens, Georgia 30602, U.S.A.

Four new alkaloids have been isolated from the title plant. Palmadine (**3**) and palmasine (**4**) are the first reported examples of a C_{20}-diterpenoid alkaloid bearing a cinnamoyl group.



3 R = OAc

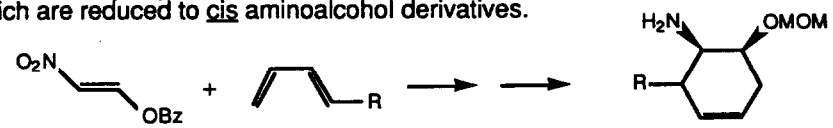
4 R = OH

Tetrahedron Lett.29,1879(1988)

2-BENZOYLOXYNITROETHYLENE AS A CIS-2-AMINOETHENOL EQUIVALENT

George A. Kraus,* Jeff Thurston and P. J. Thomas
Department of Chemistry, Iowa State University, Ames, IA 50011

2-Benzoyloxynitroethylene reacts with dienes to form Diels-Alder adducts which are reduced to cis aminoalcohol derivatives.

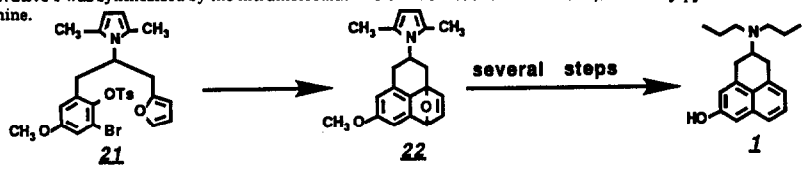


Tetrahedron Lett.29,1883(1988)

SYNTHESIS OF 2,3-DIHYDRO-1H-PHENALENE DERIVATIVE BY THE INTRAMOLECULAR DIELS-ALDER REACTION OF BENZYNE WITH FURAN

W.H. Darlington and J. Szmuszkovicz*
Research Laboratories, The Upjohn Company, Kalamazoo, Michigan 49001

2,3-Dihydro-1H-phenalene derivative 1 was synthesized by the intramolecular Diels-Alder reaction (21→22). 2,5-Dimethylpyrrole was used as a protecting group for the primary amine.



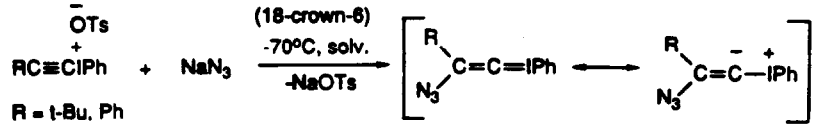
21 22 1

Tetrahedron Lett.29,1887(1988)

GENERATION, TRAPPING AND FATE OF ALKYLIDENECARBENE-IODONIUM YLIDES FROM THE ADDITION OF NaN_3 TO ALKYNYLPHENYLIODONIUM TOSYLATES

Tsugio Kitamura and Peter J. Stang*
Chemistry Department, The University of Utah, Salt Lake City, Utah 84112 USA

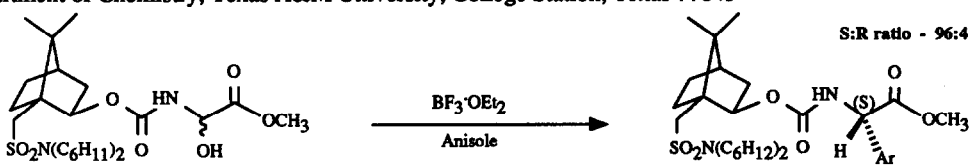
The generation and trapping of an alkylidenecarbene-iodonium ylide is described.



Tetrahedron Lett.29,1891(1988)

ACYCLIC STEREOSELECTION IN α-AMIDOALKYLATION REACTIONS

Kenn E. Harding* and Clark S. Davis
Department of Chemistry, Texas A&M University, College Station, Texas 77843

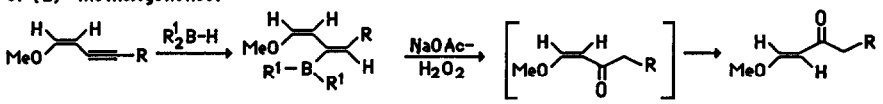


Tetrahedron Lett.29,1895(1988)

HYDROBORATION OF METHOXYENYNES. A NOVEL SYNTHESIS OF (E)-METHOXYENONES.

George Zweifel,* M. Ramin Najafi and Shyamala Rajagopalan
Department of Chemistry, University of California, Davis, California 95616, U.S.A.

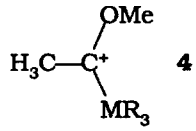
Regioselective hydroboration of methoxyenynes followed by controlled oxidation provides a novel synthesis of (E)-methoxyenones.



Tetrahedron Lett.29,1899(1988)

ALPHA CARBOCATION STABILIZATION BY SILICON, GERMANIUM AND TIN

John A. Soderquist,* Department of Chemistry
University of Puerto Rico, Rio Piedras, Puerto Rico 00931
Alfred Hassner, Department of Chemistry
Bar-Ilan University, Ramat-Gan 52100, Israel



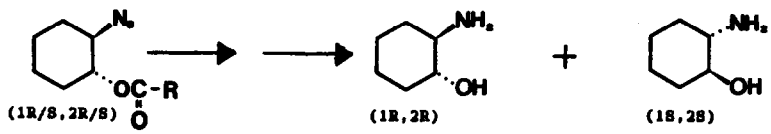
4

The hydrolyses of a number of α-metalloidal vinyl ethers were found to undergo a rate-limiting protonation to produce α-substituted carbocations (4) in the relative rate for MR_3: CMe_3>$SnMe_3$>$GeMe_3$>$SiMe_3$>H.

Tetrahedron Lett.29,1903(1988)

A NOVEL AND EFFICIENT SYNTHESIS OF (+)- AND (-)- *TRANS*-2-AMINOCYCLOHEXANOL BY ENZYMATIC HYDROLYSIS

K. Faber, H. Hönig* and P. Seufer-Wasserthal, Institute of Organic Chemistry, Graz University of Technology, Stremayrgasse 16, A-8010 Graz, Austria

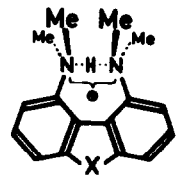


Tetrahedron Lett.29,1905(1988)

SYNTHESIS, STRUCTURE AND BASICITY OF 1,9-BIS(DIMETHYLAMINO)BENZOTHIOPHENE AND 1,9-BIS(DIMETHYLAMINO)DIBENZOSELENOPHENE

H. A. Staab*, M. Höne, C. Krieger
Abt. Organische Chemie, Max-Planck-Institut
Jahnstrasse 29, D-6900 Heidelberg

Structures of 5 and 6 and their monocations 5a and 6a explain the strong basicity of 5 and 6 as new 'proton sponges'.



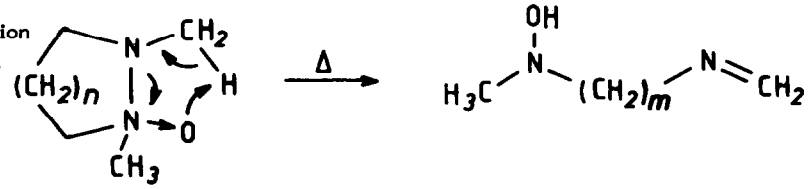
5a: X = S
6a: X = Se

Tetrahedron Lett.29,1909(1988)

N-HYDROXY-DIAMIN-DERIVATE AUS HYDRAZIN-N-OXIDEN

R. Askani* und I. Alfter
Institut für Organische Chemie der Justus-Liebig-Universität, Heinrich-Buff-Ring 58, D-6300 Giessen

ß-Elimination on hydrazine-N-oxides resulted in the formation of imines, which generally were oxidized under the conditions for the elimination to amides.



Tetrahedron Lett.29,1911(1988)

ASYMMETRIC HYDROFORMYLATION OF STYRENE ON AMINOPHOSPHINEPHOSPHINITES MODIFIED PLATINUM CATALYSTS

Sylvain Mutez, André Mortreux and Francis Petit*
Laboratoire de Chimie Organique Appliquée, UA CNRS 402, ENSC Lille,
UST Lille Flandres Artois BP 108 59652 Villeneuve d'Ascq -France-

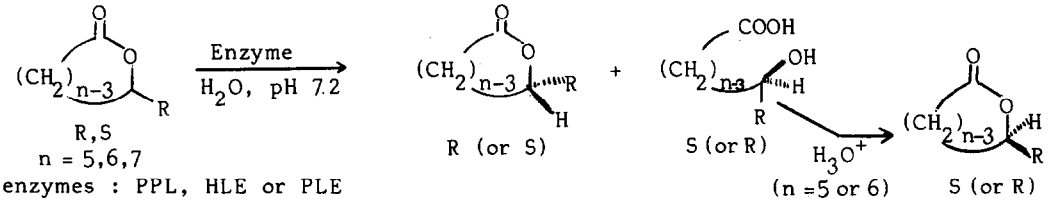
Asymmetric hydroformylation of styrene on Pt(II)-AMPP* complexes produces chiral hydratropaaldehyde. Ee's up to 48% are obtained when ProNOP is used as ligand.

$$Ph\text{-}CH{=}CH_2 + CO + H_2 \xrightarrow[SnCl_2]{Pt(ProNOP)Cl_2} Ph\overset{*}{C}H(CHO)Me$$

Tetrahedron Lett.29,1915(1988)

ENZYMATIC RESOLUTION OF RACEMIC LACTONES.

Luis BLANCO, Eryka GUIBE-JAMPEL, Gérard ROUSSEAU
Laboratoire des Carbocycles, U.A. CNRS 478, Bâtiment 420
Université de Paris-Sud, 91405 ORSAY CEDEX (France)

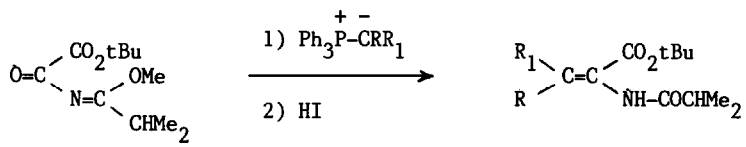


Tetrahedron Lett.29,1919(1988)

NEW SYNTHESIS OF PROTECTED α-DEHYDRO α-AMINOACIDS FROM SUBSTITUTED OXAMIC ACID

J.P. BAZUREAU and M. LE CORRE*

Laboratoire de Synthèse Organique, Université de Rennes, 35042 RENNES - FRANCE



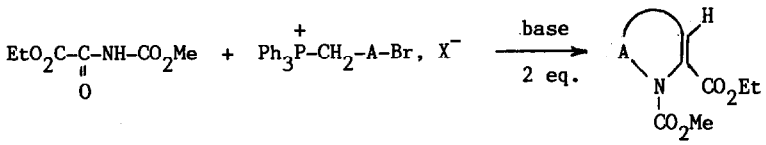
R_1=H, R=CH_3, n-C_3H_7, Ph, CO_2Me ; R,R_1= -$(CH_2)_3$- ; Yields 50-84 %

Tetrahedron Lett.29,1921(1988)

A NEW ROUTE TO HETEROCYCLIC α-DEHYDRO α-AMINO ESTERS

J.P. BAZUREAU, J. LE ROUX and M. LE CORRE*

Laboratoire de Synthèse Organique, Université de Rennes, 35042 RENNES CEDEX -FRANCE



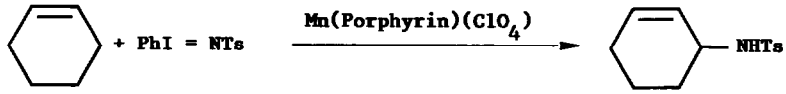
A=CO-CH_2, $(CH_2)_2$, $(CH_2)_3$, o-$C_6H_4CH_2Br$; Yields 41-68 %

Tetrahedron Lett.29,1927(1988)

ALLYLIC AMINATION OF ALKENES BY TOSYLIMINOIODOBENZENE : MANGANESE PORPHYRINS AS SUITABLE CATALYSTS.

J.P. MAHY, G. BEDI, P. BATTIONI and D. MANSUY*
Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, UA 400 CNRS
Université René Descartes, 45 rue des Saints Pères, 75270 Paris Cédex 06. France.

Mn-porphyrins are more suitable catalysts than Fe-porphyrins for allylic amination of cyclohexene, cyclooctene and hexenes by tosyliminoiodobenzene.

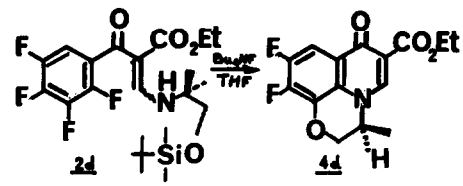


Tetrahedron Lett.29,1931(1988)

UTILISATION DU FLUORURE DE TETRABUTYLAMMONIUM COMME AGENT DE CYCLISATION DANS LA SYNTHESE D'ANTIBACTERIENS DERIVES D'ACIDE PYRIDONE-4-CARBOXYLIQUE-3

D. BOUZARD ; P. DI CESARE ; M. ESSIZ ; J.P. JACQUET ; P. REMUZON ; Centre de Recherche BRISTOL-MYERS B.P. 62 77422 MARNE LA VALLEE CEDEX 2 - FRANCE

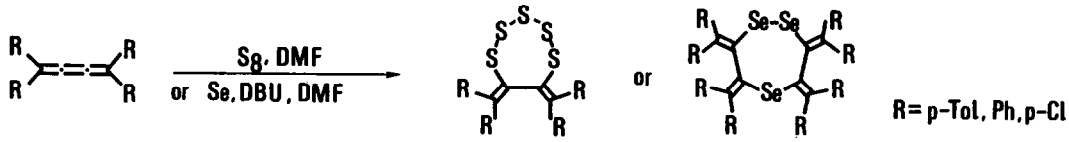
Chiral silylated coumpound (2d) is directly converted in one step to (4d), intermediate in the synthesis of (S)-Ofloxacin.



Tetrahedron Lett.29,1935(1988)

NOVEL FORMATION OF 1,1,4,4-TETRAARYL-1,2,3-BUTATRIENES WITH ELEMENTAL SULFUR AND SELENIUM

Norihiro Tokitoh, Hiroshi Hayakawa, Midori Goto[#], and Wataru Ando*
Department of Chemistry, University of Tsukuba, 1-1-1, Tennohdai, Tsukuba, Ibaraki 305, Japan
[#]National Chemical Laboratory for Industry, 1-1, Higashi, Tsukuba, Ibaraki 305, Japan

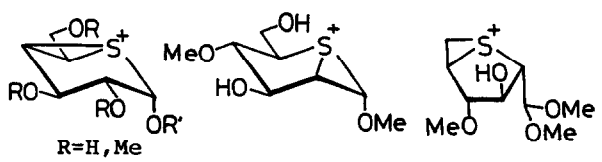


Tetrahedron Lett.29,1939(1988)

SULFUR PRTICIPATION IN METHANOLYSIS AND ACETOLYSIS OF 5-DEOXY- 5-THIO-D-GLUCOSE DERIVATIVES

Hironobu Hashimoto* and Hideya Yuasa
Department of Life Science,
Tokyo Institute of Technology
Nagatsuta, Midoriku, Yokohama
227 Japan

The formation of the following episulfonium ions was proposed in the title reactions.

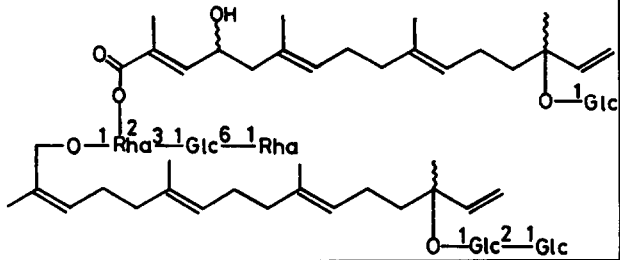


Tetrahedron Lett.29,1943(1988)

A NOVEL ACYCLIC DITERPENE GLYCOSIDE, CAPSIANSIDE A, FROM CAPSICUM ANNUUM VAR. FASCICULATUM

Shoji Yahara, Yukio Izumitani and Toshihiro Nohara*

Faculty of Pharmaceutical Sciences, Kumamoto University, 5-1 Oe-honmachi, Kumamoto 862, Japan

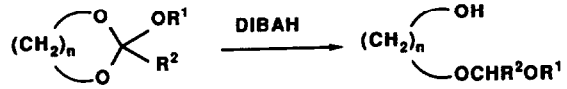


Tetrahedron Lett.29,1947(1988)

A CONVENIENT PROCEDURE FOR THE REGIOSELECTIVE MONOPROTECTION OF 1,n-DIOLS

Mayumi Takasu, Yuji Naruse, Hisashi Yamamoto*, Department of Applied Chemistry, Nagoya University, Chikusa, Nagoya 464, Japan

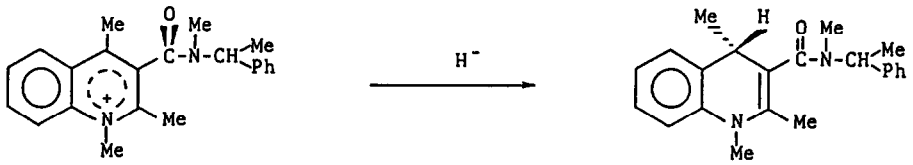
A new process of monoprotection of diols: The method depends on regioselective cleavage of orthoester, which is prepared in situ from 1,n-diols and trialkylorthoesters.



Tetrahedron Lett.29,1951(1988)

NAD(P)$^+$-NAD(P)H Models. 66. STEREOSPECIFIC INTERCONVERSION OF DIFFERENT CHIRALITIES IN THE REDUCTION OF A QUINONIUM SALT

Atsuyoshi OHNO, Masahiko OGAWA, and Shinzaburo OKA
Institute for Chemical Research, Kyoto University, Uji, Kyoto 611, Japan

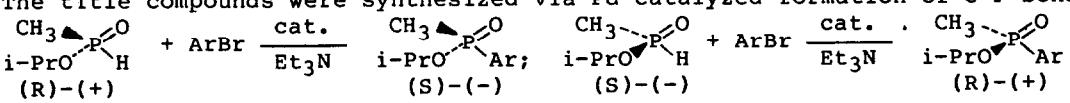


Tetrahedron Lett.29,1955(1988)

PALLADIUM-CATALYZED SYNTHESIS OF CHIRAL, NONRACEMIC ISOPROPYL ARYLMETHYLPHOSPHINATES

Jing Zhang, Yuanyao Xu*, Guohua Huang and Huiju Guo
Shanghai Institute of Organic Chemistry, Academia Sinica, 345 Lingling Lu, Shanghai, People's Republic of China

The title compounds were synthesized via Pd-catalyzed formation of C-P bond.

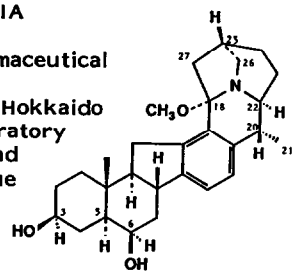


cat. = $Pd(PPh_3)_4$

Tetrahedron Lett.29,1959(1988)

USSURIENINE, A NOVEL 5α-CEVANINE ALKALOID FROM FRITILLARIA USSURIENSIS MAXIM.

Yukie Kitamura, Makoto Nishizawa, and Ko Kaneko* Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan: Mitsuhiro Ikura Kunio Hikichi High-Resolution NMR Laboratory, Faculty of Sciences, Hokkaido University, Sapporo 060, Japan: Motoo Shiro Shionogi Research Laboratory Shionogi & Co., Fukushima Ku, Osaka 553, Japan: Yuh-Pan Chen, and Hong-yen Hsu Oriental Healing Arts Institute, 1945 Palo Verde Avenue Suite 208, Long Beach, California 90815



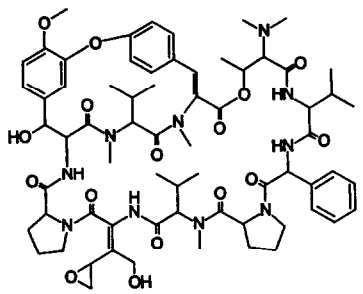
Tetrahedron Lett.29,1963(1988)

THE STRUCTURE OF AN ANTIBIOTIC, DITYROMYCIN.

Tadashi Teshima, Masahiro Nishikawa, Ichiro Kubota, Tetsuo Shiba, Yuzuru Iwai†, and Satoshi Ōmura†

Department of Chemistry, Faculty of Science, Osaka University, Toyonaka, Osaka 560, Japan
†The Kitasato Institute, Minato-ku, Tokyo 108, Japan

The structures of component amino acids of dityromycin were elucidated from chemical and spectrometrical data. Finally, the whole structure was determined from the results of partial hydrolyses, chemical cleavages, and the Edman degradations.

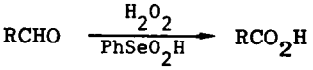


Tetrahedron Lett.29,1967(1988)

CATALYTIC OXIDATION OF ALDEHYDES TO CARBOXYLIC ACIDS WITH HYDROGEN PEROXIDE AS OXIDANT

Joong-Kwon Choi*, Young-Kil Chang, Sung Yeap Hong
Korea Research Institute of Chemical Technology, POB 9, Daedeogdanji, Daejeon, KOREA

SUMMARY: Alkyl and aryl aldehydes were catalytically oxidized to carboxylic acids in high yields with hydrogen peroxide as oxidant using benzeneseleninic acid as catalyst.



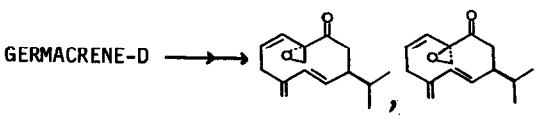
R = alkyl, aryl

Tetrahedron Lett.29,1971(1988)

SHORT STEP-SYNTHESIS AND BIOLOGICAL ACTIVITY OF HAUPTMANN'S PERIPLANONE A AND ITS STEREOISOMER

Yoshikazu Shizuri, Kimihiro Matsunaga, Kazuhiko Tamaki, Shu Yamaguchi, and Shosuke Yamamura*

Synthesis of the title compounds from germacrene-D.

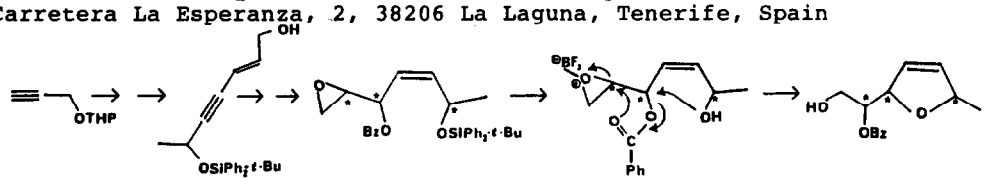


Tetrahedron Lett.29,1975(1988)

Tetrahedron Lett.29,1979(1988)

STEREOCHEMICALLY CONTROLLED SYNTHESIS OF UNSATURATED 2,5-DIALKYL FURANES

M.T. Nuñez, M.L. Rodriguez and V.S. Martín*
C.P.N.O.A.G.,I.U.Q.O., Universidad de La Laguna,
Carretera La Esperanza, 2, 38206 La Laguna, Tenerife, Spain

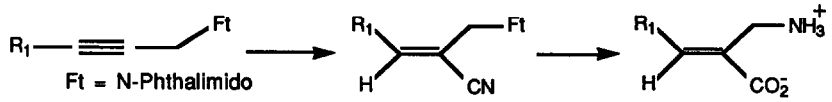


Tetrahedron Lett.29,1983(1988)

THE HYDROCYANATION ROUTE TO β- AND γ-AMINO ACIDS. A SYNTHESIS OF α-METHYLENE-β-ALANINE.

W. Roy Jackson, Patrick Perlmutter and Andrew J. Smallridge, Department of Chemistry, Monash University, Clayton, Victoria, 3168, Australia.

A useful preparation of both saturated and unsaturated amino acids.is described.

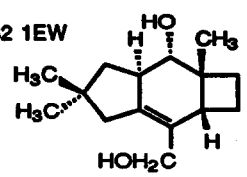


Tetrahedron Lett.29,1985(1988)

THE ABSOLUTE CONFIGURATION OF THE STERPURENE SESQUITERPENES

Chris Abell and Andrew P. Leech
University Chemical Laboratory , Lensfield Road, Cambridge, CB2 1EW

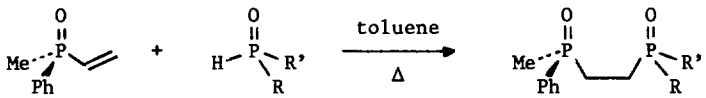
The absolute stereochemistry of the sterpurene sesquiterpenes has been determined both by the use of the exciton chirality method and from the fluorine NMR spectra of Mosher's ester derivatives.



OPTICALLY ACTIVE PHOSPHINE OXIDES. 4. A STRAIGHTFORWARD SYNTHESIS OF P-CHIRAL 1,2-DIPHOSPHINOYLETHANES

Tetrahedron Lett.29,1987(1988)

K.M.Pietrusiewicz* and M.Zabłocka
Polish Academy of Sciences, Centre of Molecular and Macromolecular Studies, Boczna 5, 90-362 Łódź, Poland



Conjugate addition of secondary phosphine oxides to an optically active vinyl phosphine oxide provides convenient access to P-chiral 1,2-diphosphinoylethanes possessing either one or two homochiral phosphorus centres.

OPTICALLY ACTIVE PHOSPHINE OXIDES. 5. P-CHIRAL 2-AMINOETHYL PHOSPHINE OXIDES

Tetrahedron Lett.29,1991(1988)

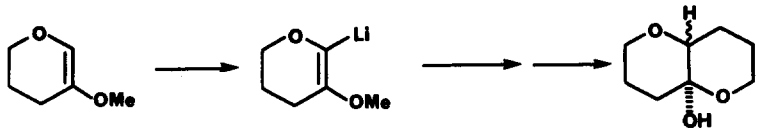
K.M.Pietrusiewicz* and M.Zabłocka
Polish Academy of Sciences, Centre of Molecular and Macromolecular Studies, Boczna 5, 90-362 Łódź, Poland

Homochiral 2-aminoethyl phosphine oxides are expeditiously prepared by simple addition of primary and secondary amines to (-)-(S)-methylphenylvinylphosphine oxide and their transformation into the corresponding optically active phosphine and phosphine sulphide is exemplified.

Tetrahedron Lett.29,1993(1988)

LITHIATED DIHYDROPYRANS AS KETONE ENOLATE EQUIVALENTS: A MODEL STUDY FOR THE HERBICIDINS.

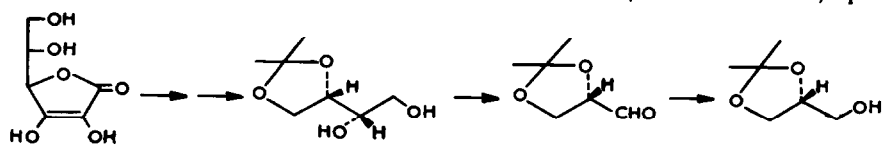
Paul Cox[a], Mary Mahon[a], Kieran Molloy[a], Simon Lister[b] and Timothy Gallagher[a]
a) School of Chemistry, Bath University, Bath, Avon BA2 7AY.
b) Medicinal Chemistry, Wellcome Research Laboratories, Beckenham, Kent BR3 3BS.



Tetrahedron Lett.29,1997(1988)

A NEW SYNTHETIC APPROACH TO L-2,3-*O*-ISOPROPYLIDENE-C_3 CHIRONS

José L. Marco and Benjamín Rodríguez
Instituto de Química Orgánica, CSIC, Juan de la Cierva 3, E-28006 Madrid, Spain.



Tetrahedron Lett.29,1999(1988)

The Nitration of *p*-Cymene with Nitrogen Dioxide in Acetic Anhydride: The Isolation and X-ray Structure Determination of 6-Methyl-3-(methylethyl)-*t*-5-nitrato-1,*r*-3,*c*-4,*t*-6-tetranitrocyclohexene

M.P. Hartshorn, W.T. Robinson, A.G. Waller, and G. J. Wright
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