

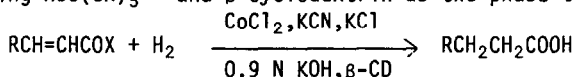
Tetrahedron Lett. 1990, 31, 1941

β -CYCLODEXTRIN AND HYDRIDOPENTACYANOCOBALTATE CATALYZED SELECTIVE HYDROGENATION OF α,β -UNSATURATED ACIDS AND THEIR DERIVATIVES

Jong-Tae Lee and Howard Alper*

Ottawa-Carleton Chemistry Institute, Dept. of Chemistry, Univ. of Ottawa Ottawa, Ont. K1N6N5

The double bond of α,β -unsaturated carbonyls and nitriles can be reduced in good to excellent yields using $\text{HCo}(\text{CN})_5^-$ and β -cyclodextrin as the phase transfer agent.

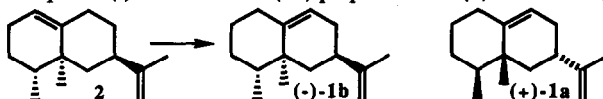


Tetrahedron Lett. 1990, 31, 1943

PREPARATION OF (-)-ARISTOLOCHENE FROM (+)-VALENCENE: ABSOLUTE CONFIGURATION OF (+)-ARISTOLOCHENE FROM *ASPERGILLUS TERREUS*.

David E. Cane,* Edward J. Salaski, and P. C. Prabhakaran, Department of Chemistry, Brown University, Providence, Rhode Island 02912 USA

The absolute configuration of (+)-aristolochene (**1a**), isolated from *Aspergillus terreus*, has been established by direct comparison with a sample of (-)-aristolochene (**1b**) prepared from (+)-valencene (**2**).



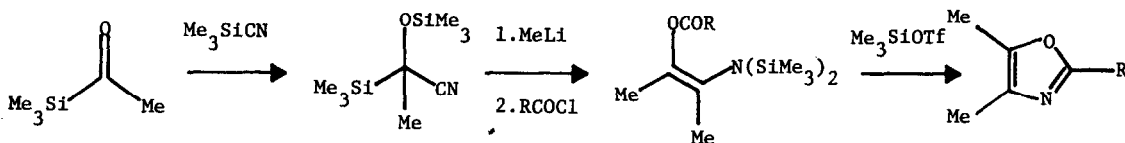
Tetrahedron Lett. 1990, 31, 1945

OXAZOLES FROM β -ACYLOXY-N,N-BIS(TRIMETHYLSILYL)ENAMINES

Robert F. Cunico* and Chia P. Kuan

Department of Chemistry, Northern Illinois University, DeKalb, Illinois 60115

Acetyltrimethylsilane is converted into 2-substituted-4,5-dimethyloxazoles.

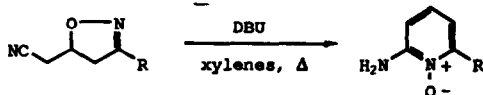


Tetrahedron Lett. 1990, 31, 1949

BASE CATALYZED REARRANGEMENT OF 5-CYANOMETHYL-2-ISOXAZOLINES; NOVEL PATHWAY FOR THE FORMATION OF 2-AMINOPYRIDINE N-OXIDES

A. W. Chucholowski* and S. Uhlendorf

Treatment of **1** with catalytic amounts of DBU in refluxing xylenes gave 2-aminopyridine N-oxide **2**.

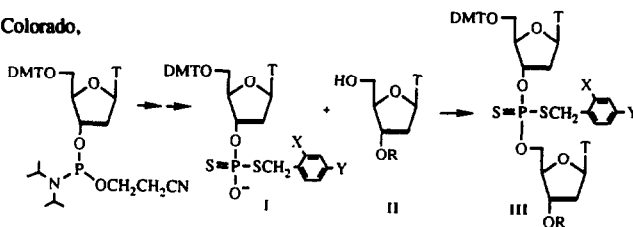


Tetrahedron Lett. 1990, 31, 1953

**SYNTHESIS OF DINUCLEOSIDE AND DINUCLEOTIDE
PHOSPHORODITHIOATES VIA A PHOSPHOTRIESTER APPROACH**

Eric K. Yau, Yun-Xi Ma, and Marvin H. Caruthers*
Department of Chemistry and Biochemistry, University of Colorado,
Boulder, CO 80309-0215, USA

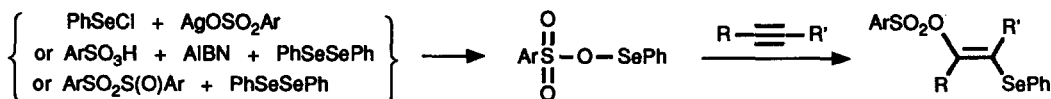
Chemoselective activation of the oxygen atom at the phosphorus center of I with TPSCI and 1-methylimidazole, when condensed with II, gave excellent yields of the phosphorodithioate dimers III.



Tetrahedron Lett. 1990, 31, 1957

**BENZENESELENYNYL p-TOLUENESULFONATE:
PREPARATION AND ELECTROPHILIC ADDITION TO
ACETYLENES**

Thomas G. Back* and K.Raman Muralidharan
Department of Chemistry, University of Calgary, Calgary, AB, Canada, T2N 1N4

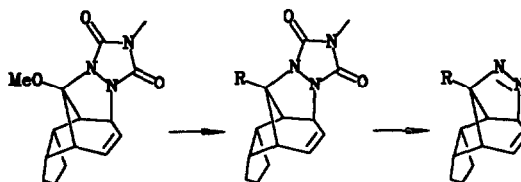


Tetrahedron Lett. 1990, 31, 1961

**METHOXY AS A REMOVABLE ACTIVATING GROUP IN THE
TRIAZOLIDINEDIONE REARRANGEMENT ROUTE TO AZO
COMPOUNDS**

John Dover and Robert S. Sheridan
University of Nevada, Reno, Nevada 89557

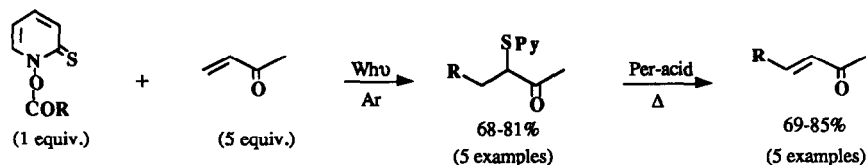
*A methoxy group increases the yield of MTAD
additions to aromatic meta-photoadducts, and
can conveniently be replaced by other
substituents.*



Tetrahedron Lett. 1990, 31, 1965

**FURTHER STUDIES ON CARBON-CARBON BOND FORMATION BASED ON
THE RADICAL REACTIONS OF ACYL DERIVATIVES OF N-HYDROXY-2-THIOPYRIDONE**

Derek H.R. Barton* and Jadab C. Sarma
Department of Chemistry, Texas A&M University, College Station, Texas 77843, U.S.A.



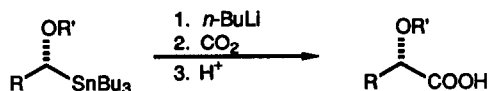
Tetrahedron Lett. 1990, 31, 1985

PREPARATION OF ENANTIOMERICALLY ENRICHED α -HYDROXY ACID DERIVATIVES FROM α -ALKOXY-ORGANOSTANNANES

Philip C.-M. Chan and J. Michael Chong*

Guelph-Waterloo Center for Graduate Work in Chemistry, Department of Chemistry, University of Waterloo, Waterloo, Ontario, CANADA N2L 3G1

α -Alkoxy acids of defined absolute stereochemistry may be prepared from α -alkoxyorganostannanes.

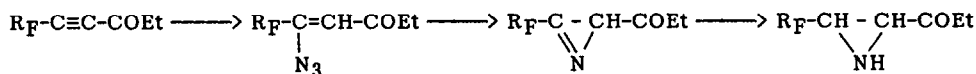


Tetrahedron Lett. 1990, 31, 1989

STABILITE ET REACTIVITE ANORMALES DES PERFLUOROALKYL AZIRINES ET AZIRIDINES

Mustapha Haddach, Raphaël Pastor and Jean G. Riess*

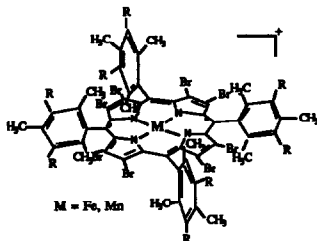
Laboratoire de Chimie Moléculaire, Unité de Recherche Associée au CNRS, Université de Nice-Sophia Antipolis, Parc Valrose, 06034 Nice, France.



The R_F chain induces particular reactivity and stability in azirinic and aziridinic rings.

Tetrahedron Lett. 1990, 31, 1991

HIGHLY SELECTIVE BROMINATION OF TETRAMESITYLPORPHYRIN: AN EASY ACCESS TO ROBUST METALLOPORPHYRINS, M-Br₂TMP AND M-Br₂TMPs. EXAMPLES OF APPLICATION IN CATALYTIC OXYGENATION AND OXIDATION REACTIONS.



Pascal Hoffmann, Gilles Labat, Anne Robert and Bernard Meunier*
Laboratoire de Chimie de Coordination du CNRS, 205 route de Narbonne, 31077 Toulouse cedex, France.

Associated to oxygen donors, KHSO_5 or MMPP, these complexes are efficient catalysts for :

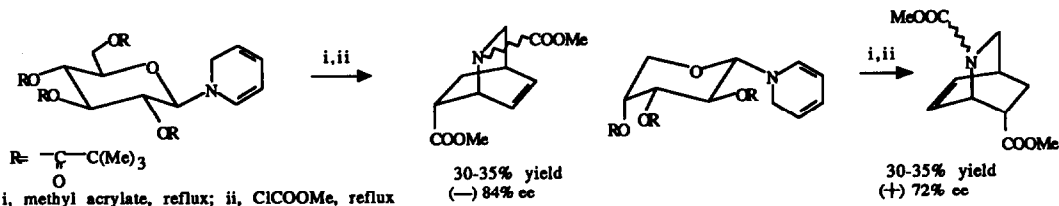
- (i) epoxidation or hydroxylation, when $\text{R}=\text{H}$
(catalysts soluble in organic solvents)
- (ii) oxidation of lignin models, when $\text{R}=\text{SO}_3\text{Na}$
(water-soluble catalysts)

Tetrahedron Lett. 1990, 31, 1995

STEREOSELECTIVE CYCLOADDITION OF N-GLYCOPYRANOSYL 1,2-DIHYDROPYRIDINES WITH METHYL ACRYLATE.

C. Marazano,* S. Yannic, Y. Genisson, M. Mehmandoust and B.C. Das

Institut de Chimie des substances naturelles, C.N.R.S., 91198 Gif-sur-Yvette Cedex, France.



Tetrahedron Lett. 1990, 31, 1999

An approach to vectorisation of pharmacologically active molecules :
The covalent binding of Leu-enkephalin to a modified β -cyclodextrin.

H. Parrot-Lopez ^a, F. Djedaïni ^b, B. Perly ^b, A.W. Coleman ^c, H. Galons ^a, M. Mioque ^c

NH_3^+ -Tyr-Gly-Gly-Phe-Leu-

a- Laboratoire de Chimie Organique 3, Université de Paris V, F-75006 Paris, France

b- Service de Chimie Moléculaire, Centre d'Etudes Nucléaires de Saclay, F-91191 Gif sur Yvette, France

c- Unité Associée CNRS 496, Université de Paris-Sud, F-92280 Chatenay Malabry, France

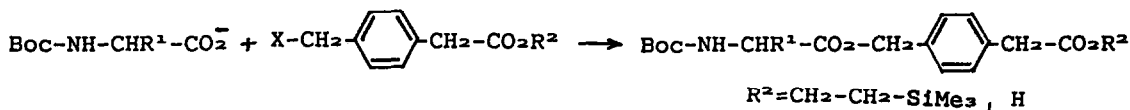
Leu-enkephalin has been grafted on permethyl β -cyclodextrin and the resulting adduct fully characterized by one and two-dimensional proton NMR.

permethyl
 β -cyclodextrin

Tetrahedron Lett. 1990, 31, 2003

IMPROVED SYNTHESIS OF PREFORMED Boc-AMINOACID-BRIDGING GROUPS FOR USE IN SOLID PHASE PEPTIDE SYNTHESIS - Calmes, Cavelier, Daunis, Elyacoubi and Jacquier

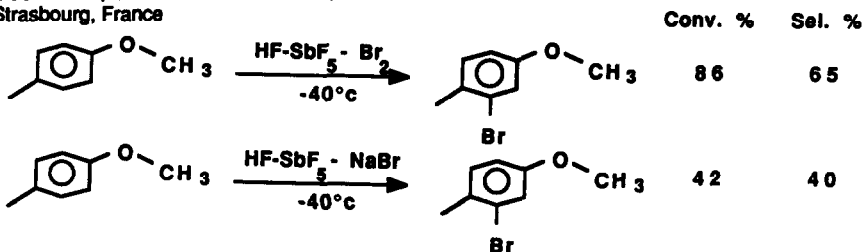
URA 468, Place E. Bataillon, 34095 Montpellier Cedex 5, France



Tetrahedron Lett. 1990, 31, 2007

ELECTROPHILIC BROMINATION OF PHENOL ETHERS IN SUPERACID SOLUTION USING ALKALI BROMIDE

Ghassan Cherry, Jean-Christophe Culmann and Jean Sommer^a
UA CNRS 469, Département de Chimie, Université Louis Pasteur,
rue Blaise Pascal, F-67000 Strasbourg, France

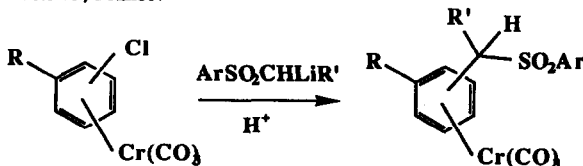


Tetrahedron Lett. 1990, 31, 2011

Reaction of chlorotoluenetricarbonylchromium complexes with α -sulfonyl-carbanions

R.KHOURZOM, F.ROSE-MUNCH and E.ROSE

Université P.et M. Curie, Laboratoire de Chimie Organique, 4 Place Jussieu, Tour 44-45,
75252 Paris Cedex 05, France.

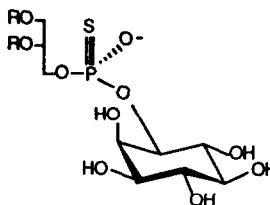


**THE SYNTHESIS OF DIASTEREOMERS OF
PHOSPHOROTHIOATE ANALOGUE OF
DIPALMITOYLPHOSPHATIDYLINOSITOL**

Tetrahedron Lett. **1990**, 31, 2015

Grzegorz M. Salamończyk and Karol S. Bruzik
Centre of Molecular and Macromolecular Studies, Polish
Academy of Sciences, Sienkiewicza 112, 90-362 Lodz,
Poland

Diastereomers of 1,2-dipalmitoyl-*sn*-glycero-3-thiophospho-1'-*myo*-inositol (DPPsI) has been synthesized via the phosphitylation method and chromatographic separation of phosphorothioate triesters.



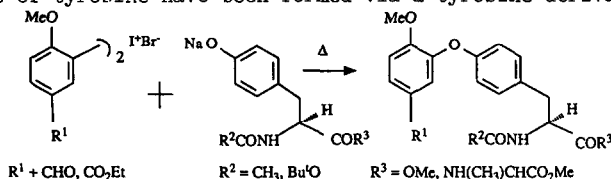
Synthesis of Diaryl Ethers from Tyrosine Derivatives

Tetrahedron Lett. **1990**, 31, 2017

Michael J. Crimmin* and Allan G. Brown*

Beecham Pharmaceuticals, Brockham Park, Betchworth, Surrey, RH3 7AJ, England.

Diaryl ethers of tyrosine have been formed via a tyrosine derivative and an aryl iodonium salt.



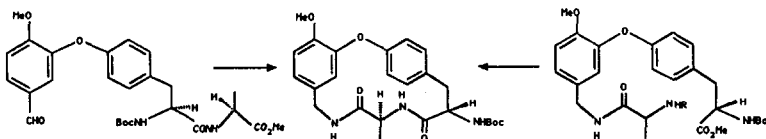
Synthesis of Phenolically Linked Cyclic Peptides

Tetrahedron Lett. **1990**, 31, 2021

Michael J. Crimmin* and Allan G. Brown*

Beecham Pharmaceuticals, Brockham Park, Betchworth, Surrey, RH3 7AJ, England.

Cyclisation of a diaryl ether containing an α , ω -amino acid residue gave cyclic peptides related to the vancomycin binding pocket.

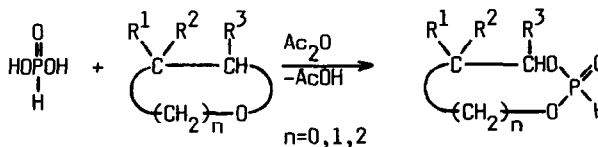


NEW METHOD OF ALKYLENE PHOSPHONATE PREPARATION

Tetrahedron Lett. **1990**, 31, 2025

Pawel Klosinski, Center of Molecular and Macromolecular Studies
Polish Academy of Sciences, 90-363 Lodz, Sienkiewicza 112, Poland

Reaction of phosphonic acid with cyclic ethers afforded in the presence of Ac_2O the corresponding alkylené phosphonates in 20-70% yield.



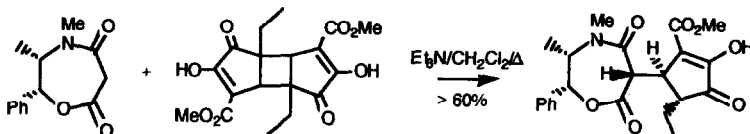
ASYMMETRIC TOTAL SYNTHESIS FROM CYCLOPENTENE-1,2-DIONES:

Characterisation of a Diastereomerically Pure Michael Adduct

Richard T. Brown* and Mark J. Ford

Chemistry Department, The University, Manchester M13 9PL, U.K.

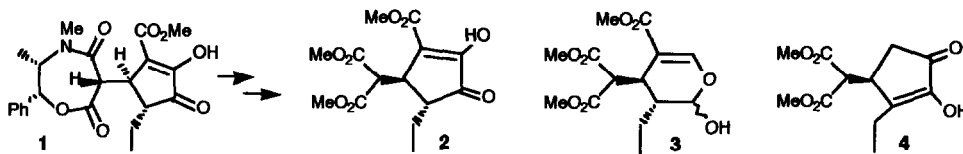
In a reversible reaction the adduct has been isolated as a single diastereomer and the induced absolute chirality assigned from n.O.e. experiments.



ASYMMETRIC TOTAL SYNTHESIS OF ALKALOIDS AND SECO-IRIDIODS

Richard T. Brown* and Mark J. Ford

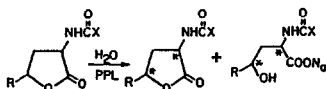
Chemistry Department, The University, Manchester M13 9PL, U.K.

The chiral Michael adduct **1** has been converted to pure enantiomers (>96% e.e.) of known synthetic precursors **2-4** via a novel exchange which recovers the chiral auxiliary.LIPASE CATALYSED HYDROLYSIS OF α -SUBSTITUTED α -AMINO BUTYROLACTONES

A.L. Gutman*, K. Zuobi and E. Guibe-Jampel*

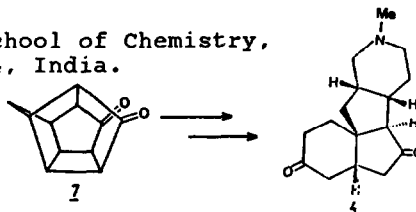
Department of Chemistry, Technion, Haifa 32000, Israel

Laboratoire des Carbocycles, Université de Paris-Sud, 91405 Orsay, France

Enzyme catalysed stereospecific hydrolysis of α -aminobutyrolactones.

A STRATEGY FOR THE CONSTRUCTION OF NOVEL TETRACYCLIC LYCOPODIUM ALKALOIDS OF PANICULATINE- AND MAGELLANINE-TYPE

Goverdhan Mehta* and M. Sreenivasa Reddy, School of Chemistry, University of Hyderabad, Hyderabad - 500 134, India.

Tetracyclic framework **4** present in paniculatine-type lycopodium alkaloids has been synthesised from the readily available dione **7** via a novel flexible strategy.

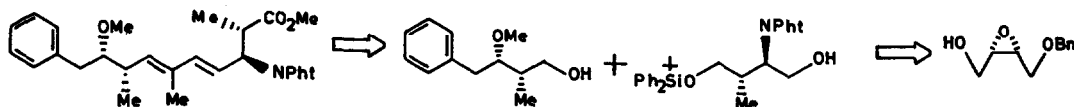
Tetrahedron Lett. 1990, 31, 2043

TOTAL SYNTHESIS OF N-PHTHALOYL ADDA METHYL ESTER : ALL STEREOCENTERS ORIGINATING FROM A SINGLE CHIRAL EPOXYALCOHOL

T.K. Chakraborty and S.P. Joshi

Indian Institute of Chemical Technology, Hyderabad 500 007, India

Selective ring opening of (2S,3R)-epoxide of 4-benzyloxy-cis-2-buten-1-ol either at 2- or 3-position ensures stereospecific construction of all the chiral centers of Adda.

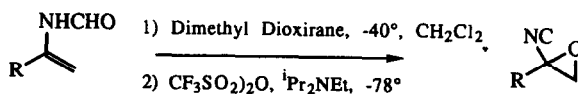


Tetrahedron Lett. 1990, 31, 2047

THE PREPARATION OF EPOXY ISONITRILES (ISOCYANOXIRANES)

J. E. Baldwin,* and I. A. O'Neil, Dyson Perrins Laboratory and the Oxford Centre for Molecular Sciences, South Parks Rd, Oxford OX1 3QY. U.K.

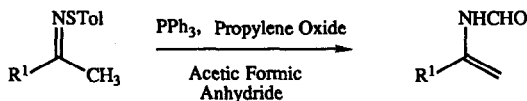
Treatment of vinyl formamides with dimethyl dioxirane at -40°C , followed by addition of trifluoromethanesulphonic (triflic) anhydride and Hunig's base gives corresponding epoxy isonitrile. This represents the first ever general synthesis of this unusual functional group.



Tetrahedron Lett. 1990, 31, 2051

A NEW AND MILD PROCEDURE FOR THE PREPARATION OF VINYL FORMAMIDES FROM THIOOXIMES

J.E.Baldwin*, D.J.Aldous and I.A.O'Neil, Dyson Perrins Laboratory and the Oxford Centre for Molecular Sciences, South Parks Rd, Oxford OX1 3QY. U.K.

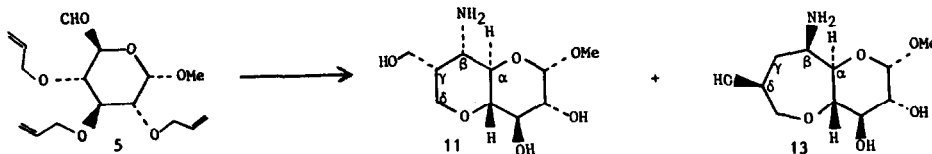


Treatment of thiooximes with triphenylphosphine, acetic formic anhydride and propylene oxide in dichloromethane at room temperature gives the corresponding vinyl formamide in good yield under essentially neutral conditions.

Tetrahedron Lett. 1990, 31, 2055

INTRAMOLECULAR 1,3-DIPOLAR ADDITIONS IN 4-O-ALLYL PYRANOSIDE 6-NITRONS: AN APPROACH TO CHIRAL PYRANO-PYRANS AND PYRANO-OXEPANS

P. M. Collins*, M.S. Ashwood and H. Eder, Chemistry Department, Birkbeck College, Gordon House, 29 Gordon Square, London WC1E 0PP, UK
S.H.B. Wright¹ and D.J. Kennedy¹, Merck Sharp and Dohme Research Laboratories, Hertford Road, Hoddesdon, Herts. EN11 9BU, UK



Treatment of the easily prepared 6-aldehyde-glucopyranoside allyl ether (5) with *N*-benzylhydroxylamine gave a nitron, which underwent a 1,3-dipolar addition to its 4-O-allyl group giving after deprotection and hydrogenolysis the chiral pyrano-pyran (11) and the pyrano-oxepan (13).

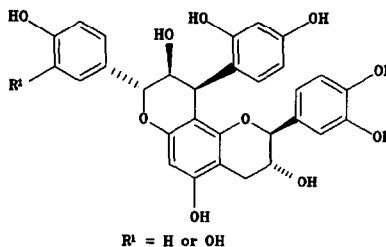
Tetrahedron Lett. 1990, 31, 2059

THE FIRST NATURAL CONDENSED TANNINS WITH (-)-CATECHIN TERMINAL UNITS.

Petrus J. Steynberg, Johann F.W. Burger, Barend C.B. Bezuidenhoudt, Jan P. Steynberg, Martha S. van Dyk, and Daneel Ferreira.*

Department of Chemistry, University of the Orange Free State, P.O. Box 339, Bloemfontein, 9300 South Africa

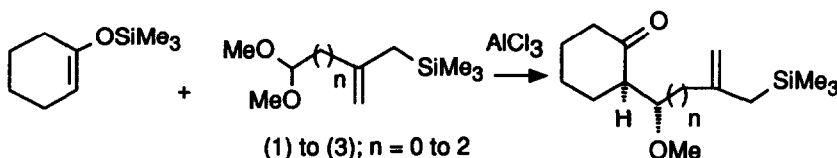
Two functionalized tetrahydropyrano[2,3-*h*]chromenes, representing the first naturally occurring condensed tannins with (2*S*,3*R*)-2,3-*trans*-(-)-catechin 'terminal' moieties, are described.



Tetrahedron Lett. 1990, 31, 2063

SELECTIVITY OF BIFUNCTIONAL ANNULATING REAGENTS:

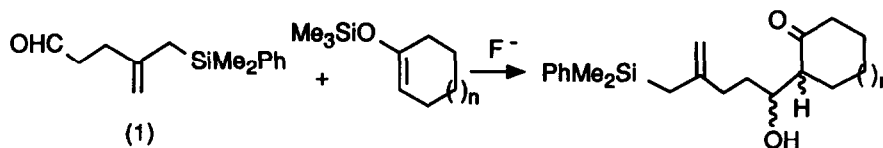
ADDITIONAL RULES FOR RING CLOSURE. Thomas V.Lee*, Frances S.Roden and Helena T.-L.Yeoh. Department of Organic Chemistry, The University, Bristol, BS8 1TS, England. Studies on 1-3 lead us to suggest that similar descriptors as have been used for predicting intramolecular aldol cyclisations, could be used for intramolecular cyclisations of allylic species.



Tetrahedron Lett. 1990, 31, 2067

CHEMOSELECTIVE REACTION OF BIFUNCTIONAL ALDEHYDO ALLYLSILANES

Thomas V.Lee* and Frances S.Roden Department of Chemistry, The University, Bristol BS8 1TS, England. Aldehydes, such as 1, are only the second class of electrophiles found to undergo chemoselective intermolecular reaction with enolsilanes, as opposed to intramolecular attack by the allylsilane.



Tetrahedron Lett. 1990, 31, 2069

ARYLATIVE AMINATION OF ALDEHYDES PROMOTED BY AQUEOUS TITANIUM TRICHLORIDE.

Angelo Clerici and Ombretta Porta

Dipartimento di Chimica del Politecnico, Pza L. da Vinci 32, 20133 Milano, Italy

