

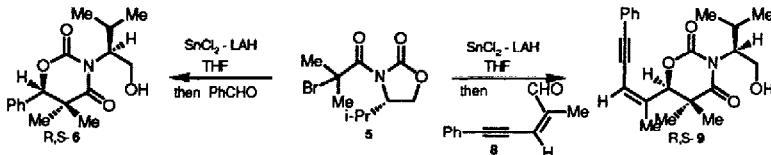
GRAPHICAL ABSTRACTS

ENANTIOSELECTIVE SYNTHESIS OF THE α,α -DIMETHYL- β -HYDROXY ACID SUBUNIT OF THE OXAZOLOMYCIN ANTIBIOTICS

Andrew S. Kende,* Kuniaki Kawamura and Michael J. Orwat

Department of Chemistry, University of Rochester, Rochester, New York 14627

Reductive generation of the Sn(II) enolate from 5, then reaction with PhCHO or enal 8 yields R,S-6 or R,S-9 with >94% d.e. Removal of the chiral auxiliary produces a homochiral model of the C-1' to C-5' segment of the oxazolomycin antibiotics.

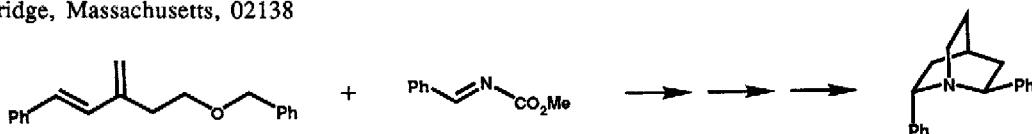


Tetrahedron Lett. 30, 5821 (1989)

A SHORT, STEREOSPECIFIC ROUTE TO CHIRAL TRANS-2,6-DISUBSTITUTED QUINUCLIDINES

E. J. Corey and Po-wai Yuen

Department of Chemistry, Harvard University
Cambridge, Massachusetts, 02138



Tetrahedron Lett. 30, 5825 (1989)

Modification of Photochemical Reactivity by Zeolites:

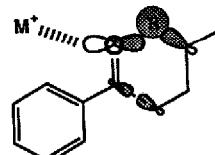
Cation Enhanced α -Cleavage of Aryl alkyl ketones

Included in Faujasites.

V. Ramamurthy*, D. R. Corbin, N. J. Turro and Y. Sato

Central Research and Development Department, E. I. du Pont de Nemours and Company, Wilmington, Delaware 19880 and
Department of Chemistry, Columbia University, New York, NY 10027

Cations such as lithium and sodium present within the supercages of faujasites favour the α -cleavage of the included arylalkyl ketones upon photolysis.



Tetrahedron Lett. 30, 5829 (1989)

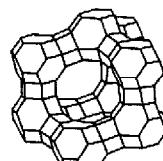
Modification of Photochemical Reactivity by Zeolites:

Role of Cations in Controlling the Behavior of Radicals Generated within Faujasites.

V. Ramamurthy*, D. R. Corbin, D. F. Eaton and N. J. Turro

Central Research and Development Department, E. I. du Pont de Nemours and Company, Wilmington, Delaware 19880-0328 and
Department of Chemistry, Columbia University, New York, NY 10027

α -Alkyl dibenzylketones included in cation exchanged faujasite type zeolites show photobehavior different from that in isotropic organic solvents.

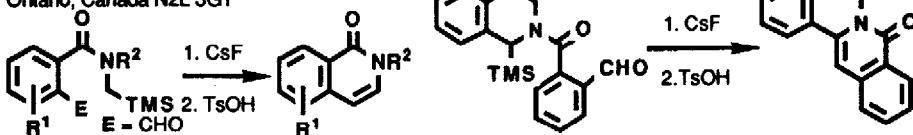


Tetrahedron Lett. 30, 5833 (1989)

α' -SILYLATED TERTIARY BENZAMIDES AS DUAL
ORTHO- AND α' -CARBANION SYNTHONS. CARBODESILYLATIVE
ROUTES TO ISOQUINOLINE AND DIBENZOQUINOLIZIDINE DERIVATIVES

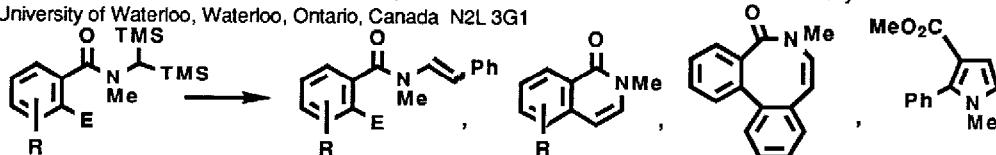
Tetrahedron Lett. 30, 5837 (1989)

J.-C. Cuevas and V. Snieckus, Guelph-Waterloo Centre for Graduate Work in Chemistry, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1



α,α' -DISILYLATED TERTIARY BENZAMIDES AS DUAL
ORTHO α' -CARBANION SYNTHONS. AMIDE PETERSON OLEFINATION ROUTES TO
N-BENZOYL ENAMINES, ISOQUINOLINES, AND DIBENAZOCINES

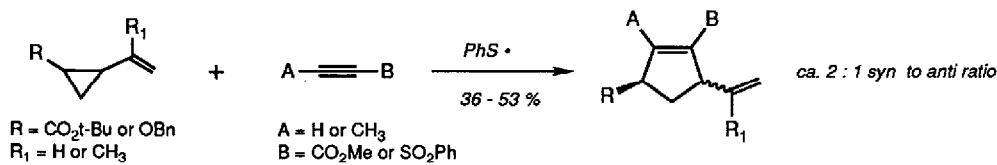
J.-C. Cuevas, P. Patil, and V. Snieckus; Guelph-Waterloo Centre for Graduate Work in Chemistry
University of Waterloo, Waterloo, Ontario, Canada N2L 3G1



VINYLCYCLOPENTENE SYNTHESIS VIA PHENYLTHIO RADICAL CATALYSED ADDITION OF ELECTRON DEFICIENT ALKYNES TO SUBSTITUTED VINYLCYCLOPROPANES

Tetrahedron Lett. 30, 5845 (1989)

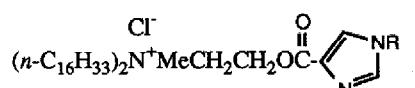
Ken S. Feldman*, Robert E. Ruckle, Jr., and Anthony Romanelli
Department of Chemistry, The Pennsylvania State University, University Park, PA 16802



SELECTIVE ACETYLATION OF STEROLS IN IMIDAZOLE-FUNCTIONALIZED SURFACTANT VESICLES

Robert A. Moss and Yukihisa Okumura, Department of Chemistry,
Rutgers University, New Brunswick, NJ 08903

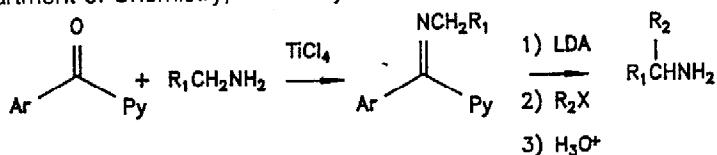
Imidazole-functionalized surfactant coaggregates based on 1 transfer acetyl groups stereoselectively to 3 β vs 3 α -cholestanol, and regioselectively to 3 β vs 6 β -cholestanol. 1-Ac is the actual transfer agent.



1, R = H; 1-Ac, R = COCH₃

**ALKYLATION OF 2-AZALLYL ANIONS;
A VERSATILE PRIMARY AMINE SYNTHESIS**
Joseph M. Hornback* and Balasingam Murugavel
Department of Chemistry, University of Denver, Denver, Colorado 80208, USA

Tetrahedron Lett. 30, 5853 (1989)



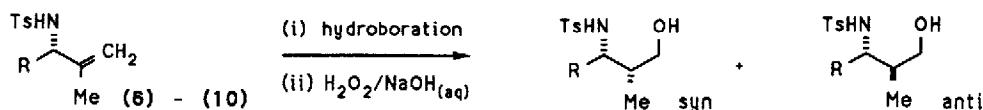
**SUBSTRATE-CONTROLLED DIASTEROSELECTIVITY IN
CATALYZED AND UNCATALYZED HYDROBORATIONS OF
ALLYLIC AMINE DERIVATIVES**

Tetrahedron Lett. 30, 5857 (1989)

Kevin Burgess and Michael J. Ohlmeyer

Chemistry, Rice University, Houston, Texas 77251

Hydroboration of the protected, homochiral allylic amines (6) - (10) with 9-BBN, and with catecholborane/rhodium catalyst, give different stereoselectivities.

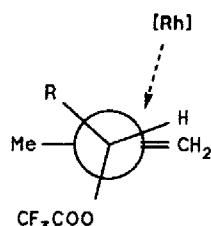


**ON CATALYZED AND UNCATALYZED HYDROBORATIONS
OF CHIRAL ALLYLC- ALCOHOLS AND AMINES**

Tetrahedron Lett. 30, 5861 (1989)

Kevin Burgess and Michael J. Ohlmeyer
Chemistry, Rice University, Houston, Texas 77251

A model for predicting the sense of diastereoselection in catalyzed hydroboration of allylic alcohol and allylic amine derivatives is discussed.

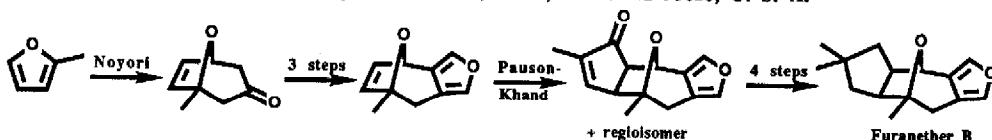


**EFFICIENT SYNTHETIC ENTRY TO OXYGEN-BRIDGED
LACTARANES USING ORGANOMETALLIC METHODOLOGY:
A SHORT SYNTHESIS OF FURANETHER B**

Tetrahedron Lett. 30, 5865 (1989)

Mary E. Price and Neil E. Schore

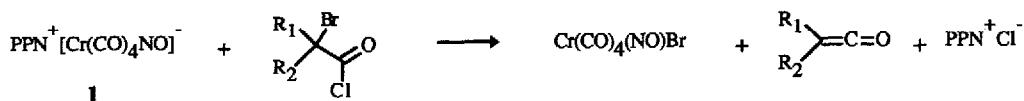
Department of Chemistry, University of California, Davis, California 95616, U. S. A.



LOW TEMPERATURE KETENE PREPARATIONS USING
NITROSYLTETRACARBONYLCHROMIUM (-II) ANION

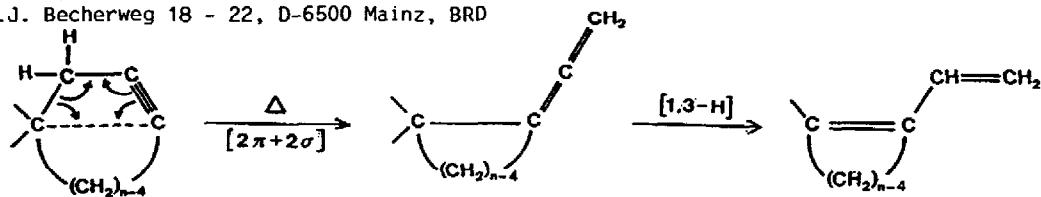
By A.P. Masters and T.S. Sorensen*

Department of Chemistry, University of Calgary, Calgary, Alberta, T2N 1N4, Canada.



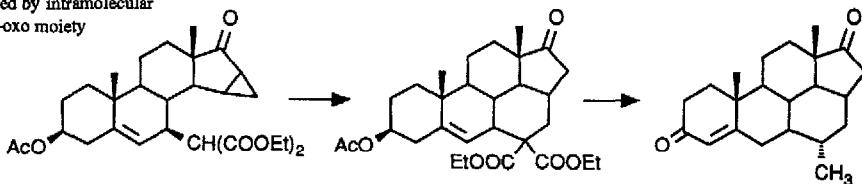
CYCLOALKIN-VINYLDENECYCLALKAN-UMLAGERUNGEN

Herbert Meier*, Markus Schmitt, Institut für Organische Chemie der Universität Mainz,
J.J. Becherweg 18 - 22, D-6500 Mainz, BRD

Synthese von pentacyclischen 7β,15β-Ethano-Steroiden
Klaus Nickisch*, Dieter Bittler und Henry Laurent
Forschungslaboratorien der Schering AG Berlin und Bergkamen

Müllerstraße 170-178, D-1000 Berlin 65

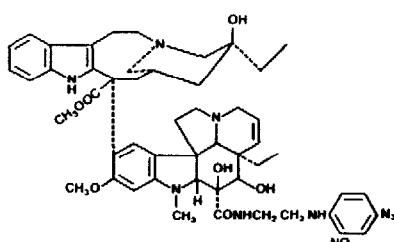
7β,15β-Ethano steroids are synthesized by intramolecular opening of a 15β,16β-methylene-17-oxo moiety with a 7β-malonyl ester function.

SYNTHESIS OF NAPAVIN, A NEW PHOTOREACTIVE DERIVATIVE
OF VINBLASTINEGeorgios Nasioulas^a, Klaus Grammbitter^a, Koert Gerzon^b, and
Herwig Ponstingl^{a*}

Institute of Cell and Tumor Biology, German Cancer Research

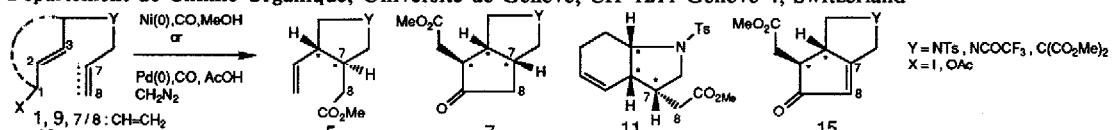
Center, D-6900 Heidelberg, Federal Republic of Germany;^a

Department of Pharmacology and Toxicology, School of Medicine,

Indiana University, Indianapolis, IN 46223, U.S.A.^bThe synthesis of 3-[[[2-amino(4-nitrophenyl)ethyl]amino]-carbonyl]-O⁴-deacetyl-3-de-(methoxycarbonyl)-vincleukoblastine (napavin) from vinblastine is described.

DIASTEROCONTROLLED NICKEL(0)- AND PALLADIUM(0)
CATALYZED "METALLO-ENE-TYPE" CYCLIZATIONS/
CARBONYLATIONS

Wolfgang Oppolzer*, Thomas H. Keller, Manuel Bedoya-Zurita and Charles Stone
Département de Chimie Organique, Université de Genève, CH-1211 Genève 4, Switzerland

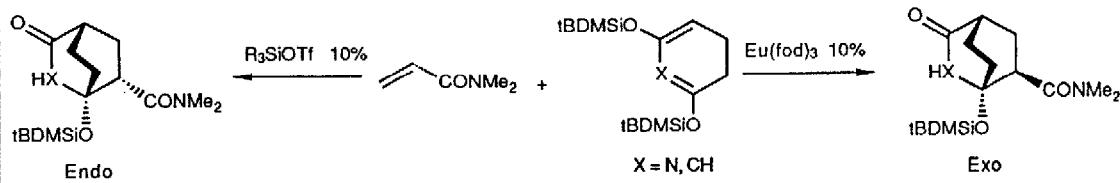


Cyclizations are selectively catalyzed: $1 \rightarrow 5$ and $9 \rightarrow 11$ ($\text{Pd}(0)$); $1 \rightarrow 7$ and $12 \rightarrow 15$ ($\text{Ni}(0)$).

Tetrahedron Lett. 30, 5883 (1989)

STEREOCHEMICAL VARIATIONS IN THE DIELS-ALDER REACTIONS OF SILOXYDIENES WITH N,N-DIMETHYL ACRYLAMIDE.
A REMARKABLE INFLUENCE OF THE LEWIS ACID CATALYST.

Hélène Lamy-Schelkens, Donatella Giomi and Léon Ghosez*
Laboratoire de Chimie Organique de Synthèse, Université Catholique de Louvain,
Place L. Pasteur, 1 - B-1348 Louvain-La-Neuve, BELGIUM



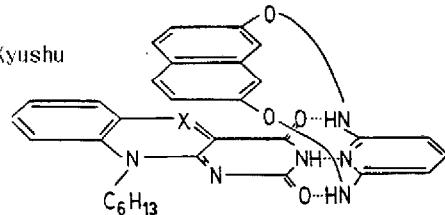
Tetrahedron Lett. 30, 5895 (1989)

SPECIFIC INHIBITION OF FLAVIN CATALYSES BY A "MOLECULAR HINGE"

S. Shinkai*, G.-X. He, T. Matsuda, A. D. Hamilton,* and H. S. Rosenzweig

Department of Organic Synthesis, Faculty of Engineering, Kyushu University, Fukuoka 812, Japan; Department of Chemistry, Princeton University, Princeton, New Jersey 08544, U.S.A.

An artificial receptor having both a 2,6-diamidopyridine hydrogen-bonding site and a naphthalene stacking site selectively quenched flavin fluorescence and inhibited flavin-mediated photo-oxidation.

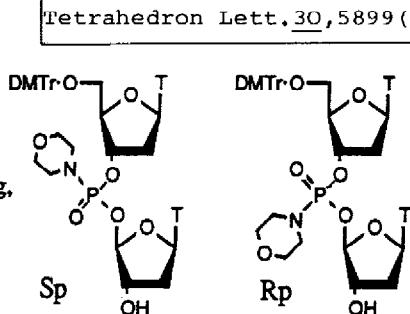


SYNTHESIS, ISOLATION AND CHARACTERIZATION
OF DIASTEROCHEMICALLY PURE DITHYMIDINE
PHOSPHORMORPHOLIDATE DERIVATIVES

H. Ozaki¹, K. Yamana², and T. Shimidzu^{1*}

¹Division of Molecular Engineering, Graduate School of Engineering, Kyoto University, Sakyo-ku, Kyoto 606, Japan

²Department of Applied Chemistry, Himeji Institute of Technology, 2167 Shosha, Himeji 671-22, Japan



Tetrahedron Lett. 30, 5899 (1989)

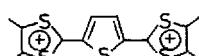
2,2'-(2,5-DIHYDROTHIOPHENE-2,5-DIYLIDENE)BIS(1,3-DITHIOLE) DERIVATIVES: NEW EXTENDED ONE-ELECTRON DONORS AND THEIR ELECTROCONDUCTIVE COMPLEXES

Tetrahedron Lett. 30, 5903 (1989)

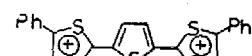
Kazuko Takahashi* and Takayasu Nihira

Department of Chemistry, Faculty of Science, Tohoku University, Sendai 980, Japan

Bis(1,3-dithiolium)tetrafluoroborates 2^{2+} and 3^{2+} have been synthesized. The electrochemical properties and conductivities of their complexes are described.



2^{2+}

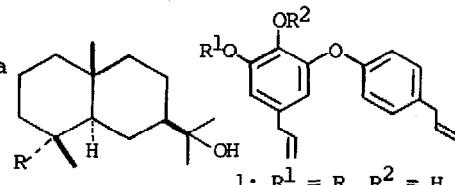


3^{2+}

NOVEL NEUROTROPHIC SESQUITERPENE-NEOLIGNANS FROM MAGNOLIA OBOVATA

Tetrahedron Lett. 30, 5907 (1989)

Yoshiyasu Fukuyama*, Yukio Otoshi, Mitsuaki Kodama, Takashi Hasegawa, Hiroshi Okazaki, and Masakazu Nagasawa
Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Tokushima 770, Japan; Otsuka Pharmaceutical Co. Ltd., Tokushima 771-01, Japan

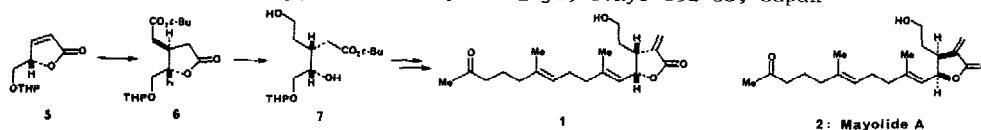


The structures of eudesobovatol A (1) with a neurotrophic property and eudesobovatol B (2) have been assigned by spectroscopic data and chemical degradation.

TOTAL SYNTHESIS OF (+)-MAYOLIDE A: THE ABSOLUTE CONFIGURATION OF MAYOLIDE A

Tetrahedron Lett. 30, 5911 (1989)

Hiroto Nagaoka, Makoto Iwashima, Haruyasu Abe, and Yasuji Yamada*
Tokyo College of Pharmacy, Horinouchi, Hachioji, Tokyo 192-03, Japan



(+)-Mayolide A (1) was synthesized stereoselectively from D-mannitol via 5, 6 and 7. This accomplishment determined the absolute configuration of mayolide A as depicted in 2.

TOTAL SYNTHESIS OF (+)-ALTHOLACTONE

Tetrahedron Lett. 30, 5915 (1989)

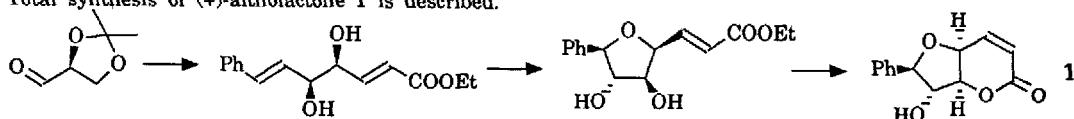
Sung Ho Kang*

Department of Chemistry, Korea Institute of Technology, Taejon 305-701, Korea

Wan Joo Kim

Korea Research Institute of Chemical Technology, Taejon 305-606, Korea

Total synthesis of (+)-altholactone 1 is described.

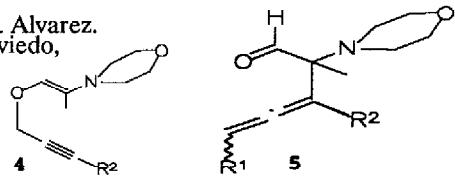


SYNTHESIS OF 2-MORPHOLINOPENTA-3,4-DIENAL DERIVATIVES AND PROPARGYLOXYENAMINES BY CATALYTIC AMINOMERCURATION OF DIPROPARGYL ETHERS.

Tetrahedron Lett. 30, 5919 (1989)

José Barluenga*, Fernando Aznar, Miguel Bayod and José M. Alvarez.
Departamento de Química Organometálica, Universidad de Oviedo,
33071 Oviedo, Spain

Propargyloxyenamines 4 and/or 2-morpholinopenta-3,4-dienals 5 are obtained by aminomercuration of dipropargyl ethers depending on their substituents..

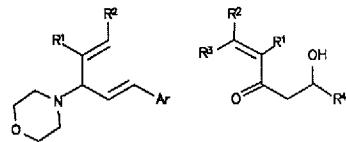


2-MORPHOLINOBUTADIENES AS SYNTHON FOR THE REGIOSELECTIVE PREPARATION OF 3-MORPHOLINO-1,4-PENTADIENES AND β -HYDROXYVINYLKETONES

Tetrahedron Lett. 30, 5923 (1989)

José Barluenga,* Fernando Aznar, M^a Paz Cabal and Carlos Valdés.
Departamento de Química Organometálica. Universidad de Oviedo.
33071 Oviedo. Spain

A very simple regioselective preparation of 3-morpholino-1,4-pentadienes and β -hydroxyvinylketones is described.

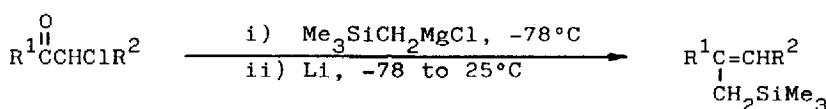


ONE-POT SYNTHESIS OF ALLYLSILANES FROM α -CHLOROCARBONYL COMPOUNDS

José Barluenga,*^a José L. Fernández-Simón,^a José M. Concellón,^a and Miguel Yus^b

^a Departamento de Química Organometálica, Universidad de Oviedo, 33071 Oviedo, Spain

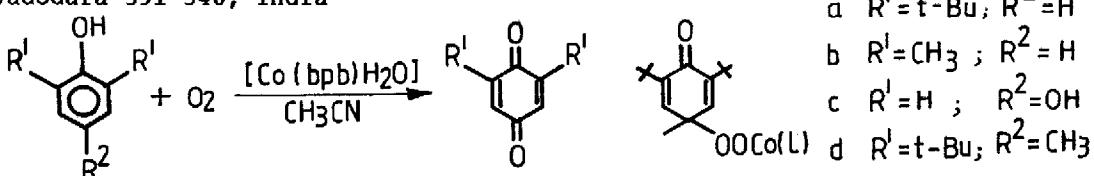
^b División de Química Orgánica, Universidad de Alicante, 03690 Alicante, Spain



OXIDATION OF PHENOLS WITH MOLECULAR OXYGEN CATALYSED BY [N,N'-BIS(2'-PYRIDINECARBOXAMIDO)-1,2-BENZENE] COBALT(II), CHELATE

Tetrahedron Lett. 30, 5929 (1989)

P.A. Ganeshpure, A. Sudalai, and S. Satish
Research Centre, Indian Petrochemicals Corporation Limited,
Vadodara 391 346, India

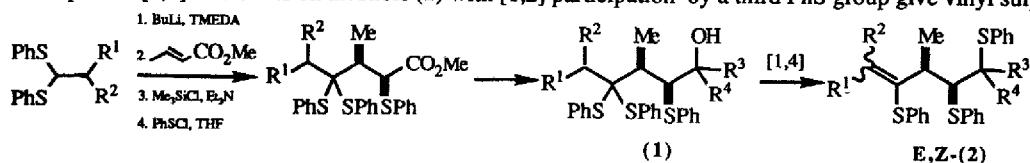


[1,4] PHENYLTHIO SHIFTS OF
2,4,4-TRISPHENYLTHIOBUTANOLS

María-Jesús Villa and Stuart Warren, University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW

Tetrahedron Lett. 30, 5933 (1989)

Stereospecific [1,4] PhS shifts on alcohols (1) with [1,2] participation by a third PhS group give vinyl sulphides (2).



STEREOCONTROLLED AMIDOCYCLISATIONS
WITH PHENYLTHIO MIGRATION

I. Coldham and S. Warren

University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW

Tetrahedron Lett. 30, 5937 (1989)

Rearrangement of β -hydroxysulphides
gives cyclic and spirocyclic amines
with complete stereochemical control.



SYNTHESIS OF ENANTIOMERICALLY PURE
PROTECTED β -ARYL ALANINES

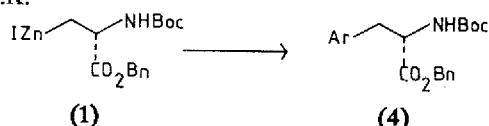
Tetrahedron Lett. 30, 5941 (1989)

Richard F.W. Jackson,*^a Martin J. Wythes,^b and Anthony Wood^a

^a Department of Chemistry, Bedson Building, The University, Newcastle upon Tyne, NE1 7RU, U.K.

^b Pfizer Central Research, Sandwich, Kent, CT13 9NJ, U.K.

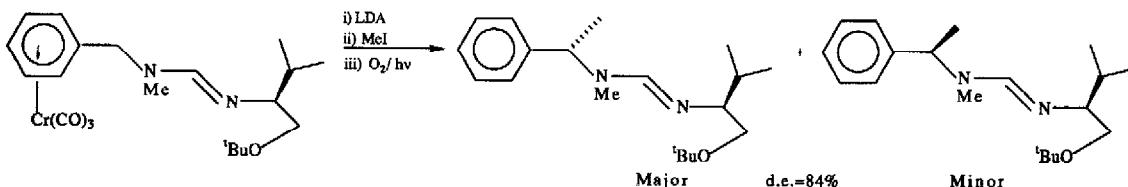
Reaction of the serine-derived zinc
reagent (1) with aryl iodides under
palladium catalysis gives enantiomerically
pure protected β -aryl alanines (4).



Stereoselective α -Methylation of N-Methyl Benzylamine via a Combination of Chromium Tricarbonyl and Chiral Formamidine

Methodologies. Joan Albert and Stephen G. Davies*, Dyson Perrins Laboratory, South Parks Road, Oxford, OX1 3QY, UK

Tetrahedron Lett. 30, 5945 (1989)



ELECTRON ADDITION TO 5-BROMO-5-NITRO-1,3-DIOXANES

Martyn C.R. Symons^a, René Beugelmans^b,

W. Russell Bowman^c, and André Lechevalier^b

^a Department of Chemistry, The University of Leicester, Leicester LE1 7RH

^b Institut de Chimie des Substances Naturelles, C.N.R.S., 91190 Gif-sur-Yvette

^c Dept. of Chemistry, University of Technology, Loughborough, Leics. LE11 3TU

E.s.r. spectroscopy shows:

