

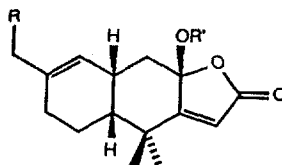
GRAPHICAL ABSTRACTS

15-ACETYLTHIOXY-FURODYSININ LACTONE, A POTENT LTB₄ RECEPTOR PARTIAL AGONIST FROM A MARINE SPONGE OF THE GENUS *DYSIDEA*

Tetrahedron Lett. 30, 2725 (1989)

Brad Carte', Seymour Mong, Benjamin Poehland, Henry Sarau and John W. Westley*, Departments of Biomolecular Discovery, Immunology and Molecular Pharmacology SmithKline & French Laboratories, Research & Development, P.O. Box 1539, King of Prussia, PA
D.J. Faulkner, SIO, UCSD, La Jolla, CA 92093

A novel naturally occurring sesquiterpene thioacetate (1) with high binding-affinity for human LTB₄ receptors is described.



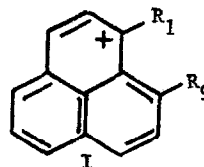
1: R = AcS, R' = H

SUBSTITUENT EFFECTS ON THE STABILITY OF CARBODICATIONS

Tetrahedron Lett. 30, 2727 (1989)

Winn Peebles, Richard M. Pagni and Robert C. Haddon, Department of Chemistry, University of Tennessee, Knoxville, TN 37996-1600 USA and AT and T Bell Laboratories, Murray Hill, NJ 07974 USA.

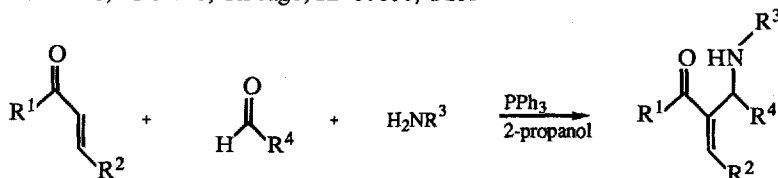
The effect of substituents (R₁, R₉ = NHCH₃, NH₂, OH, SH, -SS-) on the ability of CF₃SO₃H to protonate substituted phenalenyl cations (I) to form carbodications has been investigated. The observed effects are modest.



Phosphine Mediated Synthesis of 2-Methylidene-3-Amino Esters and Ketones

Tetrahedron Lett. 30, 2731 (1989)

Stephen Bertenshaw and Michael Kahn, University of Illinois at Chicago, Department of Chemistry, Box 4348, M/C 111, Chicago, IL 60680, USA



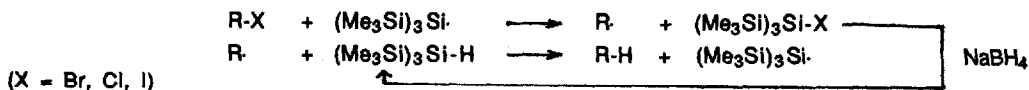
TRIS(TRIMETHYLSILYL)SILANE: A CATALYST FOR RADICAL MEDIATED REDUCTION REACTIONS¹

Tetrahedron Lett. 30, 2733 (1989)

M. Lesage, C. Chatgililoglu and D. Griller*

Division of Chemistry National Research Council of Canada, Ottawa, Ontario, Canada, K1A 0R6

Tris(trimethylsilyl)silane can be used as a catalyst in radical mediated reduction reactions.



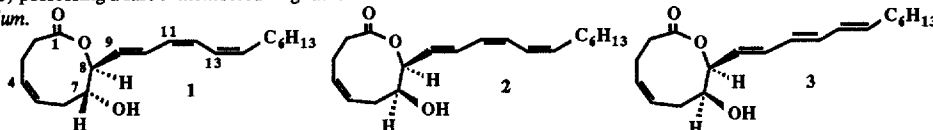
Tetrahedron Lett. 30, 2735 (1989)

Asciatrienolides A-C, Novel Lactonized Eicosanoids from the Colonial Marine Ascidian *Didemnum candidum*

Niels Lindquist and William Fenical*

Scripps Institution of Oceanography, University of California, San Diego, La Jolla, Ca 92093-0228 USA

Three new eicosanoids (1-3) possessing a rare 9-membered ring lactone and novel sites of oxidation have been isolated from the colonial marine ascidian *Didemnum candidum*.

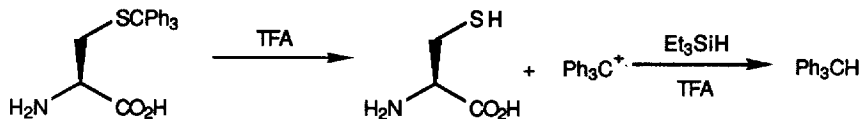


Tetrahedron Lett. 30, 2739 (1989)

TRIALKYLSILANES AS SCAVENGERS FOR THE TRIFLUOROACETIC ACID DEBLOCKING OF PROTECTING GROUPS IN PEPTIDE SYNTHESIS

Daniel A. Pearson*, Mary Blanchette, Mary Lou Baker, Cathy A. Guindon

Imaging Agents Research, E. I. DuPont de Nemours, No. Billerica, MA 01862



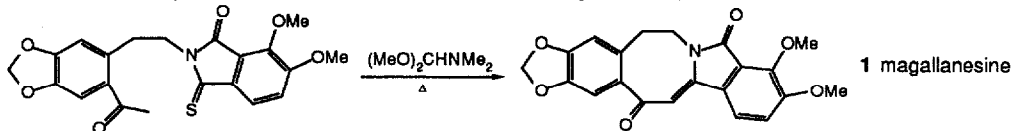
Tetrahedron Lett. 30, 2743 (1989)

A TOTAL SYNTHESIS OF MAGALLANESINE: DMF ACETAL MEDIATED CYCLODEHYDRATION OF A METHYL KETONE THIOIMIDE

Francis G. Fang, Gregg B. Feigelson, and Samuel J. Danishefsky*

Department of Chemistry, Yale University, New Haven, Connecticut 06511 USA

An amide acetal-mediated intramolecular condensation of a methylketone with a regioselectively activated unsymmetrical phthalimide resulted in the total synthesis of the isoindolobenzazocine alkaloid magallanesine (1).



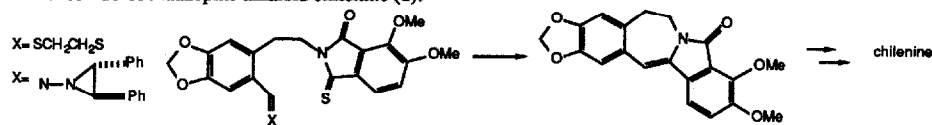
Tetrahedron Lett. 30, 2747 (1989)

THE TOTAL SYNTHESIS OF CHILENINE: NOVEL CONSTRUCTIONS OF CYCLIC ENAMIDES

Francis G. Fang and Samuel J. Danishefsky*

Department of Chemistry, Yale University, New Haven CT 06511

Tungsten hexacarbonyl or rhodium(II) acetate mediated reductive coupling of a dithiolane or 2,3-diphenyl-N-aziridinothioamide respectively with a regioselectively activated unsymmetrical dimethoxyphthalimide provides the key step in a total synthesis of the isoindolobenzazocine alkaloid chilenine (1).



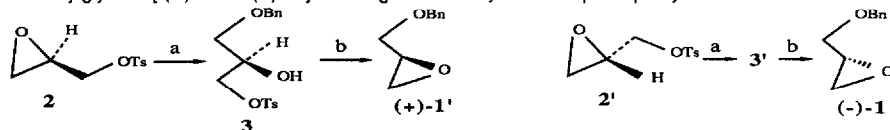
A TWO-STEP SYNTHESIS OF (*R*)- AND (*S*)-BENZYLGLYCIDYL ETHER

Hoe-Sup Byun and Robert Bittman*

Department of Chemistry, Queens College of The City University of New York, Flushing, NY 11367

Tetrahedron Lett. 30, 2751 (1989)

A two-step procedure is reported for the conversion of (*R*)- and (*S*)-glycidyl tosylates (**2** and **2'**) into both enantiomers of *O*-benzylglycidol [(*R*)-**1** and (*S*)-**1'**] with high chemical yield and optical purity.



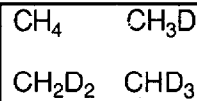
(a) BnOH, BF₃·Et₂O, CH₂Cl₂, 0 °C, 12 h; 20 °C, 2 h (b) K₂CO₃/MeOH, -10 °C, 2 h; 20 °C, 2 h

H-D COUPLING CONSTANTS AND DEUTERIUM ISOTOPE EFFECTS ON THE PROTON CHEMICAL SHIFTS IN PARTIALLY DEUTERIATED METHANES

FRANK A. L. ANET* AND DANIEL J. O'LEARY

Department of Chemistry and Biochemistry, University of California, Los Angeles, Los Angeles, California 90024

Deuterium isotope effects on the ¹H chemical shifts of deuteriated methanes depend on the solvent and temperature (²Δ = -13.988 to -15.555 ppb for CH₃D) and are very slightly non-additive (ca 0.02 ppb per deuterium), unlike ²J_{HD} (1.929 ± 0.002 Hz).



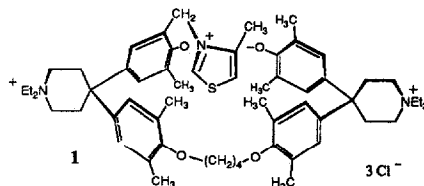
Tetrahedron Lett. 30, 2755 (1989)

CATALYTIC CYCLOPHANES: A HIGHLY EFFICIENT MODEL FOR PYRUVATE OXIDASE

Leslie Jimenez and François Diederich*

Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90024-1569, U.S.A.

The thiazolium macrocycle **1** is prepared by a novel synthetic route to monofunctionalized cyclophanes. In aqueous solution in the presence of potassium ferricyanide, **1** is an efficient, selective catalyst for the oxidation of aromatic aldehydes to carboxylic acids.



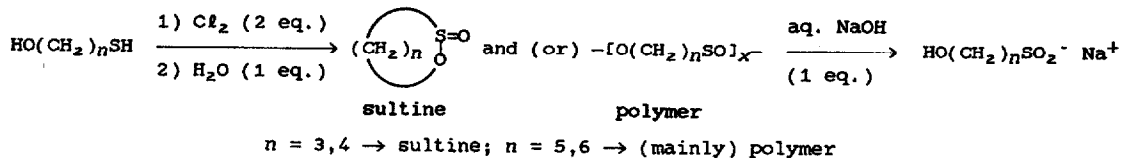
Tetrahedron Lett. 30, 2759 (1989)

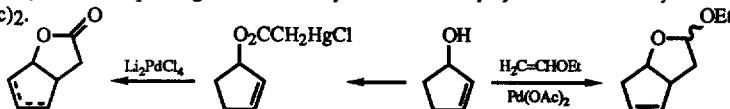
AN EASY PREPARATION OF SIMPLE SULTINES AND HYDROXYALKANESULFINATE SALTS

J.F. King* and Rajendra Rathore

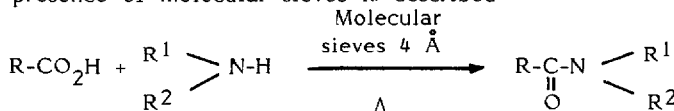
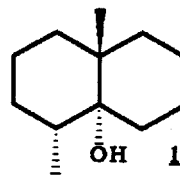
Department of Chemistry, University of Western Ontario, London, Ontario, Canada N6A 5B7

Tetrahedron Lett. 30, 2763 (1989)



Tetrahedron Lett. 30, 2767 (1989)SYNTHESIS OF UNSATURATED BICYCLIC LACTONES AND ACETALS VIA
PALLADIUM-PROMOTED CYCLIZATION OF CYCLIC ALLYLIC ALCOHOLSRichard C. Larock,* and Dean E. Stimm
Department of Chemistry, Iowa State University, Ames, Iowa 50011Unsaturated bicyclic lactones are readily prepared by converting cyclic allylic alcohols to the corresponding α -chloromercurio acetate esters and reacting them with Li_2PdCl_4 . The corresponding acetals can be synthesized directly by reaction of the allylic alcohols with ethyl vinyl ether and $\text{Pd}(\text{OAc})_2$.Tetrahedron Lett. 30, 2771 (1989)A CONVENIENT SYNTHESIS OF AMIDES FROM
CARBOXYLIC ACIDS AND PRIMARY AMINESJ. COSSY*, C. PALE-GROSEDMANGE
Laboratoire de Photochimie, Associé au CNRS, U.F.R. Sciences de Reims, B.P. 347, 51062 Reims
Cédex, France

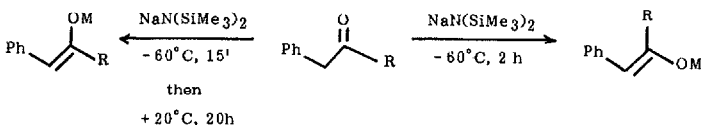
A very convenient method for the formation of carboxamides from carboxylic acids and primary amines in the presence of molecular sieves is described

Tetrahedron Lett. 30, 2775 (1989)SYNTHESIS OF EARTHY-MOULDY SMELLING COMPOUNDS
STEREOSELECTIVE SYNTHESIS OF (\pm)-GEOSMINP. Gosselin¹, D. Joulain², P. Laurin¹ and F. Rouessac¹
¹Laboratoire de Synthèse Organique, Faculté des Sciences, CNRS UA n° 482, F-72017
Le Mans Cedex, France. ²Robertet S.A., B.P. 100, F-06333 Grasse, FranceThe strong earthy-smelling compound (\pm)-geosmin **1** is obtained stereospecifically in four steps and 42% overall yield from 1,4 $\alpha\beta$ -Dimethyl-4,4 α ,5,6,7,8-hexahydronaphthalen-2(3H)-one **2**. The key step involves a one-pot double-reduction of an epoxytosylate.REGIO AND STEREOSELECTIVE PREPARATION OF
ENOLATES FROM KETONES BY MEANS OF SODIUM
BIS(TRIMETHYLSILYL)-AZIDETetrahedron Lett. 30, 2779 (1989)

Marcel GAUDEMAR et Moncef BELLAOUED

Université Pierre et Marie Curie, Laboratoire de Synthèse Organométallique, 4, Place Jussieu,
75230 - PARIS Cedex 05, France.

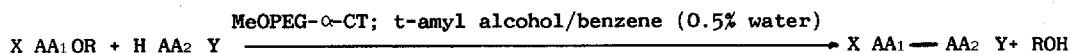
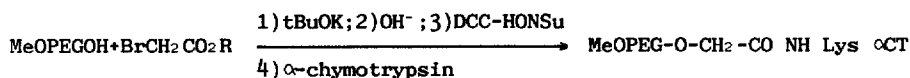
The deprotonation of some ketones by sodium bis(trimethylsilyl)-azide is regio and stereoselective. The results are different from those observed with LDA.



R = Me, Et, nPr

Tetrahedron Lett. 30, 2787 (1989)

ENZYMATIC PEPTIDE SYNTHESIS IN ORGANIC SOLVENT MEDIATED BY MODIFIED α -CHYMOTRYPSIN, Marie-Thérèse BABONNEAU, Robert JACQUIER, René LAZARO* and Philippe VIALLEFONT, Laboratoire de Synthèses et d'Etudes Physicochimiques d'Aminoacides et de Peptides Associée au CNRS, Université des Sciences et Techniques du Languedoc, 34060-Montpellier

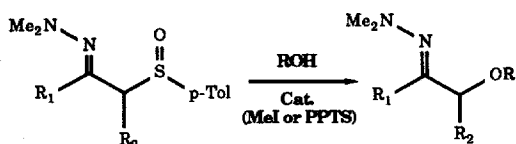


Tetrahedron Lett. 30, 2791 (1989)

A NEW SYNTHESIS OF α -KETOETHERS VIA ANCHIMERICALLY ASSISTED SUBSTITUTION OF AN α -SULFINYL FUNCTION WITH ALCOHOLS

P. Pflieger, C. Mioskowski, J.P. Salaun, D. Weissbart and F. Durst
Laboratoire de Chimie Bio-Organique, associé au CNRS, Université Louis Pasteur
Faculté de Pharmacie, 74, Route du Rhin F-67401 Strasbourg Cédex, France.

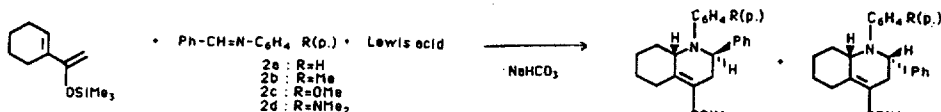
The preparation of α -alkoxy-, α -allyloxy- and α -benzyloxyaldehydes and ketones, via substitution of a sulfinyl function in α -sulfinylhydrazones with primary, secondary and tertiary alcohols is described.



Tetrahedron Lett. 30, 2795 (1989)

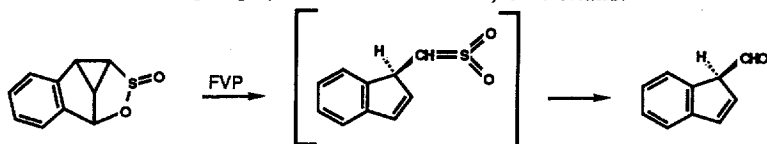
TRIMETHYLSILYL ENOL ETHERS FORMED BY AN IMINO DIELS-ALDER REACTION: MECHANISTIC IMPLICATIONS

Linda LE COZ, Lya WARTSKI, Jacqueline SEYDEN-PENNE
Laboratoire des Carbocycles, Associé au CNRS, ICMO, Bâtiment 420, 91405 ORSAY, France
Pierre CHARPIN, Martine NIERLICH
CEA CEN/SACLAY, DLPC/SCM, Associé au CNRS, 91191 GIF-sur-YVETTE, France



Tetrahedron Lett. 30, 2797 (1989)

Thermolysis of the sulfur dioxide adducts of benzobenzvalene. The 1,3-dipolar behaviour of a sulfene
U. Burger, D. Erne-Zellweger, A.W. Sledeski and S. Schmidlin.
Dpt de Chimie Organique, Université de Genève, Switzerland.

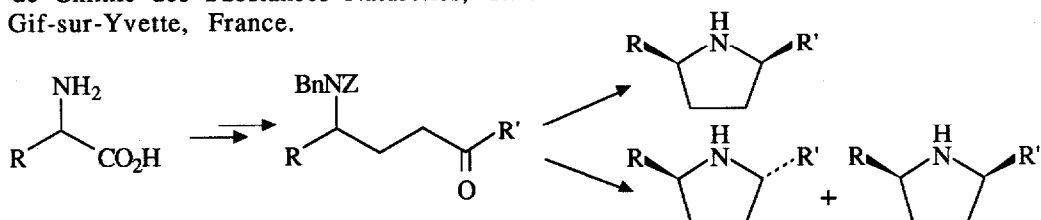


A NEW ROUTE TO OPTICALLY PURE *cis*- AND *trans*-2,5-DISUBSTITUTED PYRROLIDINES

Samir JEGHAM and Bhupesh C. DAS*

Institut de Chimie des Substances Naturelles, C.N.R.S.
91198 Gif-sur-Yvette, France.

Tetrahedron Lett. 30, 2801 (1989)

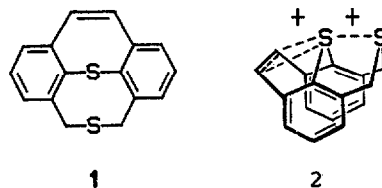


A NEW DOUBLE BOND BRIDGED DIBENZODITHIOCIN: PREPARATION, CHARACTERIZATION, AND ITS TRANSANNULAR $p\pi$ -($>S^+-S^+<$) INTERACTION

Hisashi Fujihara, Jer-Jye Chiu, and Naomichi Furukawa*
Department of Chemistry, University of Tsukuba,
Tsukuba, Ibaraki 305, Japan

A new double bond bridged dibenzodithiocin, 1,11-(etheno)-5H,7H-dibenzo[b,g][1,5]dithiocin (1) has been prepared; the reactivities and the transannular $p\pi$ -($>S^+-S^+<$) interaction (2) in 1 are described.

Tetrahedron Lett. 30, 2805 (1989)



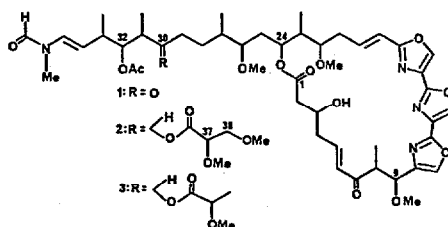
MYCALOLIDES A - C, HYBRID MACROLIDES OF ULAPUALIDES AND HALICHONDRAVIDE, FROM A SPONGE OF THE GENUS MYCALE

N. Fusetani*, K. Yasumuro, S. Matsunaga,
and K. Hashimoto

Laboratory of Marine Biochemistry, Faculty of
Agriculture, The University of Tokyo, Bunkyo-ku,
Tokyo (Japan)

Three cytotoxic macrolides, mycalolides A (1), B (2), and C (3) have been isolated from a sponge *Mycale* sp.

Tetrahedron Lett. 30, 2809 (1989)

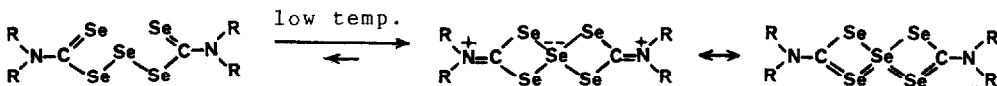


STRUCTURE AND INTRAMOLECULAR DYNAMICS OF BIS(DIISOBUTYLSELENOCARBAMOYL) TRISELENIDE AS IDENTIFIED IN SOLUTION BY THE ^{77}Se -NMR SPECTROSCOPY

Yasuhiro Mazaki and Keiji Kobayashi*

Department of Chemistry, College of Arts and Sciences,
The University of Tokyo, Komaba, Meguroku, Tokyo 153 Japan

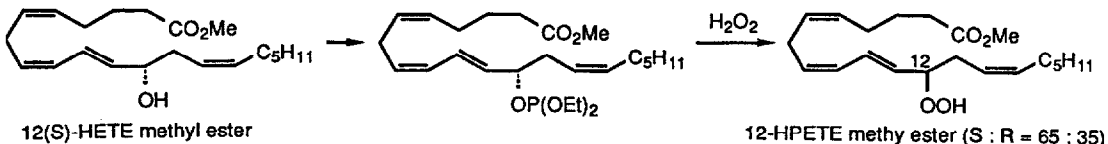
Tetrahedron Lett. 30, 2813 (1989)



Tetrahedron Lett. 30, 2817(1989)

**SYNTHESIS OF 12-HYDROPEROXYEICOSATETRAENOIC ACID (12-HPETE).
ON THE STEREOCHEMISTRY IN THE CONVERSION OF 12(S)-HETE TO 12-HPETE**

Ryu Nagata, Masayuki Kawakami, Teruo Matsuura, and Isao Saito*
Department of Synthetic Chemistry, Faculty of Engineering, Kyoto University, Kyoto 606, Japan

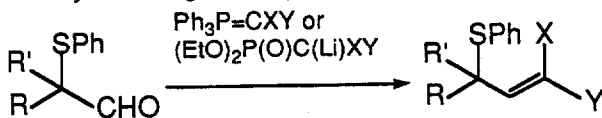


Tetrahedron Lett. 30, 2821 (1989)

A VERSATILE METHOD FOR ALLYLIC SULFIDE SYNTHESIS

Tsuneo Sato, Yasuaki Hiramura, Junzo Otera,* and Hitosi Nozaki
Department of Applied Chemistry, Okayama University of Science, Ridai-cho, Okayama 700, JAPAN

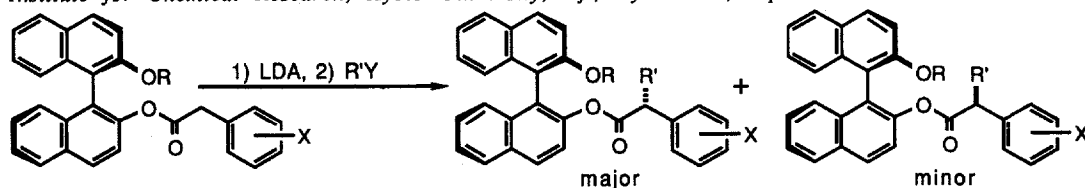
A practical method for synthesizing a variety of allylic sulfides has been developed.



Tetrahedron Lett. 30, 2825(1989)

**BINAPHTHOL AS A CHIRAL AUXILIARY.
ASYMMETRIC ALKYLATION OF ARYLACETIC ACID**

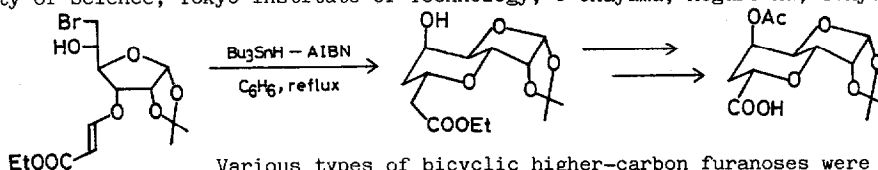
Kaoru Fuji,* Manabu Node, Fujie Tanaka, and Shinzo Hosoi
Institute for Chemical Research, Kyoto University, Uji, Kyoto 611, Japan



Tetrahedron Lett. 30, 2829 (1989)

**STEREOSELECTIVE RADICAL CYCLIZATION FOR THE SYNTHESIS
OF BICYCLIC HIGHER-CARBON SUGARS. SYNTHESIS OF THE SUGAR
MOIETY OF OCTOSYL ACIDS; Younosuke Araki,* Tadatoshi**

Endo, Yoshifusa Arai, Masaki Tanji, and Yoshiharu Ishido; Department of Chemistry,
Faculty of Science, Tokyo Institute of Technology, O-okayama, Meguro-ku, Tokyo 152, JAPAN

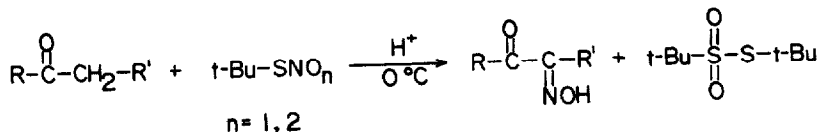


Various types of bicyclic higher-carbon furanoses were synthesized.

FACILE DIRECT α -OXIMATION OF KETONES USING *t*-BUTYL THIONITRATE

Tetrahedron Lett. 30, 2833 (1989)

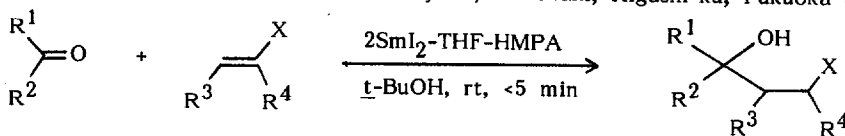
Yong Hae Kim*, Young Jun Park, and Kweon Kim
Department of Chemistry, Korea Advanced Institute of Science and Technology
P.O. Box 150, Cheongyang-Ni, Seoul 130-650, Korea



AN EFFICIENT INTERMOLECULAR CARBON-CARBON BOND FORMATION VIA SmI_2 -PROMOTED ANION RADICAL ALKYLATION

Tetrahedron Lett. 30, 2837(1989)

Osamu Ujikawa, Junji Inanaga,* and Masaru Yamaguchi
Department of Chemistry, Kyushu University 33, Hakozaki, Higashi-ku, Fukuoka 812, Japan

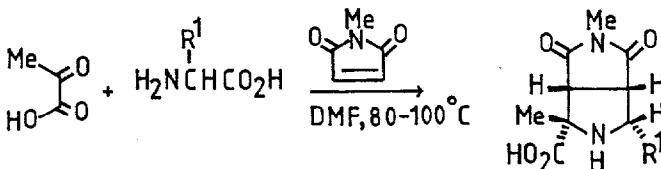


DECARBOXYLATION OF α -AMINO ACIDS BY PYRUVIC ACID AND ITS DERIVATIVES. EVIDENCE FOR AZOMETHINE YLIDES IN *IN VITRO* ANALOGUES OF PYRUVYL ENZYMIC PROCESSES

Tetrahedron Lett. 30, 2841(1989)

Ronald Grigg*, Deirdre Henderson and Andrew J. Hudson
Department of Chemistry, Queen's University, Belfast BT9 5AG, Northern Ireland.

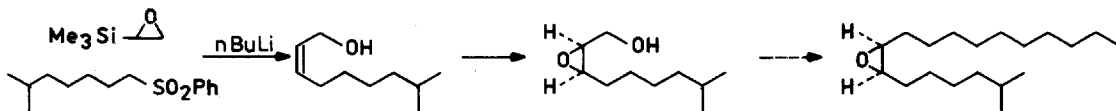
Pyruvic acid and its carboxyl derivatives react with α -amino acids via imine formation and subsequent regio-specific decarboxylation to give azomethine ylides which can be trapped with *N*-methylmaleimide



SYNTHESIS OF (+)-DISPARLURE USING THE REACTION OF 6-METHYLHEPTYL PHENYL SULPHONE WITH TRIMETHYL Silyl ETHYLENE OXIDE AND ASYMMETRIC EPOXIDATION

Tetrahedron Lett. 30, 2845 (1989)

S. Marczak, M. Masnyk and J. Wicha*
Institute of Organic chemistry of the Polish Academy of Sciences

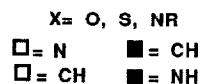
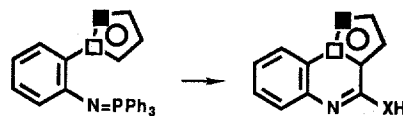


Tetrahedron Lett. 30, 2847 (1989)

**ortho-PYRROLYLPHENYL HETEROCUMULENES:
PREPARATION AND CYCLIZATION TO FUSED PYRROLES**

Pedro Molina*, Mateo Alajarin, and Angel Vidal.
Departamento de Química Orgánica, Facultad de Ciencias,
Universidad de Murcia, Spain.

Aza-Wittig reaction of iminophosphoranes 4 and 11 with
isocyanates, isothiocyanates, carbon dioxide or carbon disulfide
leads to fused pyrroles through intermediates heterocumulenes.



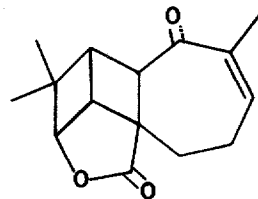
Tetrahedron Lett. 30, 2851 (1989)

**AQUATOLIDE. A NEW TYPE OF HUMULANE-RELATED SESQUITERPENE
LACTONE**

A. San Feliciano*, M. Medarde, J.M. Miguel del Corral,
A. Aramburu, M. Gordaliza and A.F. Barrero#
Depto de Química Orgánica y Farmacéutica. Facultad de
Farmacia. 37007. Salamanca. Spain.

#Depto. de Química Orgánica. Facultad de Ciencias.
Granada. Spain.

AQUATOLIDE is the first example of a sesquiterpenoid
having a tricyclo [5,4,0,0^{8,11}]undecane system.
Its structure has been established by 2D-NMR methods.



Tetrahedron Lett. 30, 2855 (1989)

**ORGANIC PHOTOCHEMISTRY PART II PHOTOCHEMICAL
SYNTHESIS OF THE NATURALLY OCCURRING TRITERPENE
LACTONE 3β-HYDROXY LUPAN-28, 13β-OLIDE 1**

Swapan K. Nag and Samarendra N. Bose*
Department of Chemistry, North Bengal University,
Darjeeling 734 430, W. Bengal, India

The photochemical synthesis of 3β-hydroxy lupan-28,
13β-olide 1 has been carried out. CD studies of
this and related lactones provide convincing support
for the lactone ring structure.

