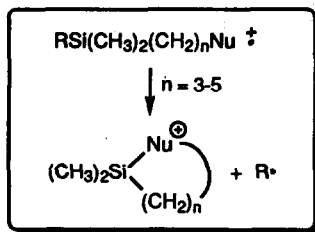


Tetrahedron Lett. 1993, 34, 2863

**INTRAMOLECULAR NUCLEOPHILE-ASSISTED
CLEAVAGE OF ORGANOSILANE CATION RADICALS**

William P. Todd, Joseph P. Dinnocenzo, Samir Farid,
Joshua L. Goodman, and Ian R. Gould, Center for Photoinduced Charge
Transfer and the Department of Chemistry, University of Rochester,
Rochester, New York 14627, and Corporate Research Laboratories,
Eastman Kodak Company, Rochester, New York 14650

*Photoinduced oxidation of organosilanes in high and moderate
polarity solvents results in intramolecular nucleophilic substitution
which competes with return electron transfer and ion pair separation.*

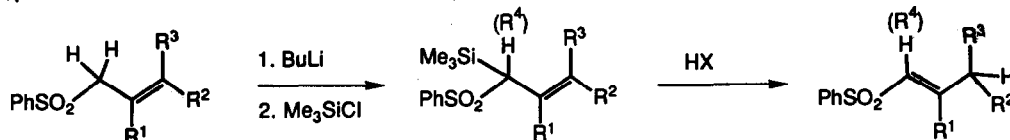


Tetrahedron Lett. 1993, 34, 2867

**STERESELECTIVE PREPARATION OF VINYL SULFONES
BY PROTODESILYLATION OF ALLYL SILANES.**

Raymond L. Funk, Joy Umstead-Daggett and Kay M. Brummond

Dept. of Chem., Univ. of Nebraska, Lincoln, NE 68588 and Dept. of Chem., Penn. State Univ., Univ. Park, PA 16802
 β,γ -Unsaturated sulfones can be stereoselectively conjugated by protodesilylation of α -trimethylsilylsulfones.

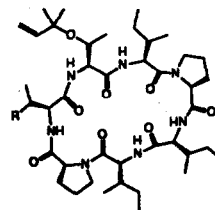


Tetrahedron Lett. 1993, 34, 2871

**Nairaiamides A and B. Two Novel Di-Proline Heptapeptides
Isolated from a Fijian *Lissoclinum bistratum* Ascidian.**

Mark P. Foster and Chris M. Ireland,* Department of Medicinal Chemistry,
University of Utah, SLC, UT 84112.

Two new cyclic heptapeptides have been isolated from the ascidian *Lissoclinum bistratum*, and their structures determined by a combination of spectroscopic techniques, including a natural abundance two-dimensional ^1H (^{13}C , ^1H)-HMQC-TOCSY experiment which was pivotal to assigning and identifying the amino acid residues. ^1H (^{13}C)-HMBC and [^1H , ^1H]-ROESY experiments provided the correlations necessary to sequence the peptides. In both peptides, the Ile-Pro amide bonds adopt cis configurations.



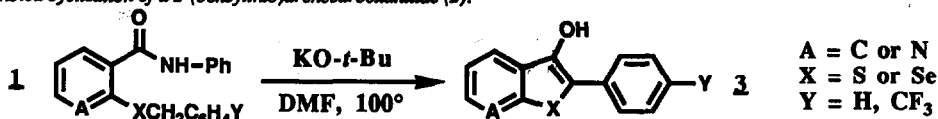
Tetrahedron Lett. 1993, 34, 2875

**A Synthesis of 2-Aryl-3-hydroxybenzothiophenes and Analogs by the
Base Promoted Cyclization of N-Phenyl-2-(benzylthio)benzamides.**

Stephen W. Wright,* and Ronald L. Corbett

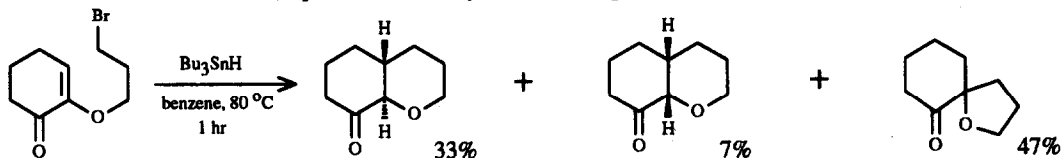
The Du Pont Merck Pharmaceutical Company, Du Pont Experimental Station, Wilmington, Delaware 19880-0353

A new methodology is described for the synthesis of 3-hydroxybenzothiophenes (3) and the corresponding selenophene analogs by the base promoted cyclization of a 2-(benzylthio)arenecarboxanilide (2).

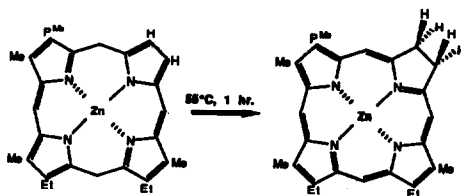


RADICAL CYCLIZATIONS OF DIOSPHENOL ω -HALO-ALKYL ETHERS TO OXABICYCLOALKANONES

Anthony A. Ponaras* and Ömer Zaim, Department of Chemistry, The Catholic University of America, Washington, DC 20064

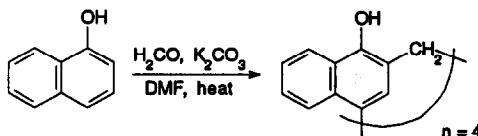
Diosphenol ω -haloalkyl ethers undergo radical cyclization:**A Rational Step-by-Step Preparation of a Chlorin from Linear Tetrapyrroles.**

Dennis H. Burns,* Tim M. Caldwell and Michael W. Burden, Department of Chemistry, Wichita State University, Wichita, Kansas 67260

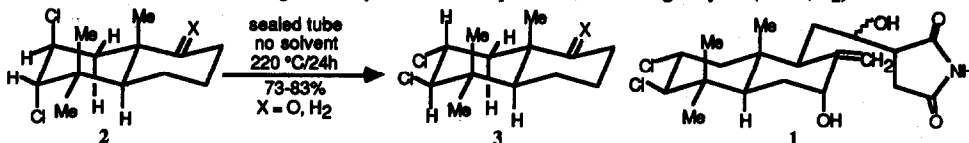
Formation of porphodimethene by condensation of pyrromethanes, metalation with $Zn(OAc)_2$ under neutral conditions and heating to $55^\circ C$ for 1 hour in chloroform produces chlorin in 27% yield.**Calix[4]naphthalenes: Cyclic Tetramers of 1-Naphthol and Formaldehyde.**

Paris E. Georghiou* and Zhaopeng Li, Dept. of Chemistry, Memorial University of Newfoundland, St. John's, NFLD, A1B 3X7, Canada.

Base-catalysed reaction of 1-naphthol with formaldehyde in DMF produces three isomeric cyclic tetramers that are analogous to the calix[4]arenes and calix[4]resorcinarenes.

**EFFICIENT METHOD FOR THE PREPARATION OF 2 α ,3 β -DICHLORO-4,4,10-TRIMETHYLDECALIN SYSTEMS AS A ROUTE FOR THE SYNTHESIS OF DICHLOROLISSOCLIMIDE**

Michael E. Jung* & Angel Vidal Gomez, Department of Chemistry, University of California, Los Angeles, CA 90024

An efficient total synthesis of an analogue of the AB ring of dichlorolissoclimide, **1**, is reported, in which the key step is the thermal rearrangement of the diaxial dichloride **2** to give mainly the desired diequatorial isomer **3** in good yield (X = O, H₂).

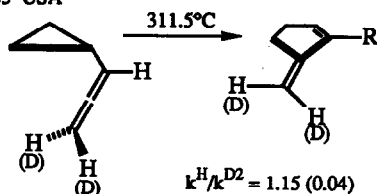
Tetrahedron Lett. 1993, 34, 2895

A ROTATIONAL KINETIC ISOTOPE EFFECT IN THE CYCLOPROPYLALLENE TO 3-METHYLENECYCLOPENTENE THERMAL REARRANGEMENT

Leif P. Olson, Joseph J. Gajewski

Department of Chemistry, Indiana University, Bloomington, IN 47405 USA

The deuterium kinetic isotope effect at the exo-methylene carbon of allenyl-cyclopropane in its thermal 1,3-sigmatropic shift to 3-methylenecyclopentene was found to be $1.15/D_2$ at 311.5°C. This is a striking example of a rotational effect.

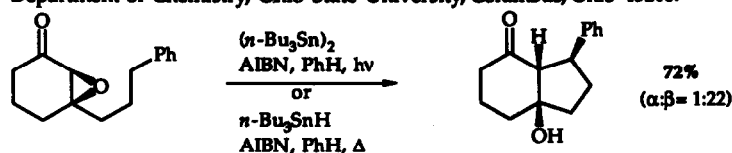


Radical-Induced Epoxide Fragmentation Chemistry.

n-Bu₃Sn• Radical Catalyzed Isomerization of Epoxyketones to Carbocycles

Viresh H. Rawal,* Venkat Krishnamurthy and Agnes Fabre

Department of Chemistry, Ohio State University, Columbus, Ohio 43210.



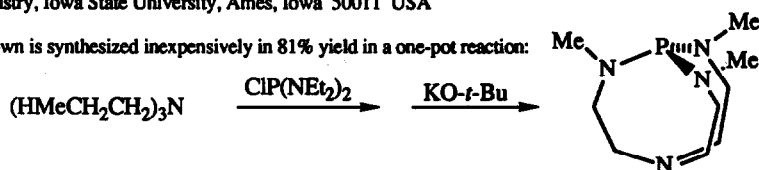
Tetrahedron Lett. 1993, 34, 2899

AN IMPROVED SYNTHESIS OF THE STRONG BASE P(MeNCH₂CH₂)₃N

Jian-sheng Tang and John G. Verkade*

Gilman Hall, Department of Chemistry, Iowa State University, Ames, Iowa 50011 USA

The useful bicyclic strong base shown is synthesized inexpensively in 81% yield in a one-pot reaction:

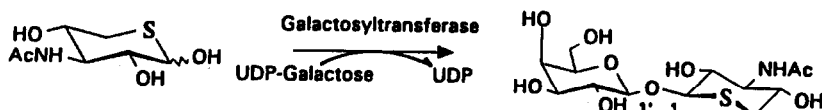


Tetrahedron Lett. 1993, 34, 2903

Extension of the β Gal1,1-Transfer to N-Acetyl 5-Thio-Gentosamine by Galactosyltransferase

Y. Nishida, T. Wiemann and J. Thiem*

Department of Organic Chemistry, University of Hamburg, Martin-Luther-King-Platz 6, D-2000 Hamburg 13, Germany



A novel disaccharide, β Gal1,1 β -5-Thio-Xyl3NAc, was obtained in 40% yield employing UDP-Gal in a galactosyltransferase reaction.

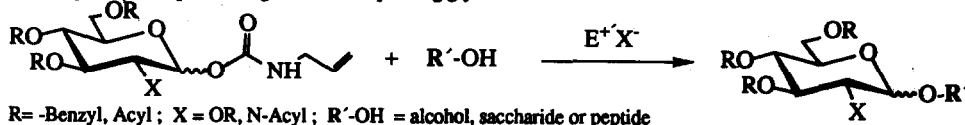
Tetrahedron Lett. 1993, 34, 2905

Glycoside Synthesis via Electrophile-Induced Activation of N-Allyl Carbamates.

Tetrahedron Lett. 1993, 34, 2907

Horst Kunz* and Jörg Zimmer, Institut für Organische Chemie, Universität Mainz, Becherweg 18-20, D-(W)-6500 Mainz, Germany.

O-Benzyl-, O-acyl-, N-acyl- and isopropyliden-protected glycosyl N-allylcarbamates are activated by different electrophiles to react with various hydroxyl compounds to give the corresponding glycosides.



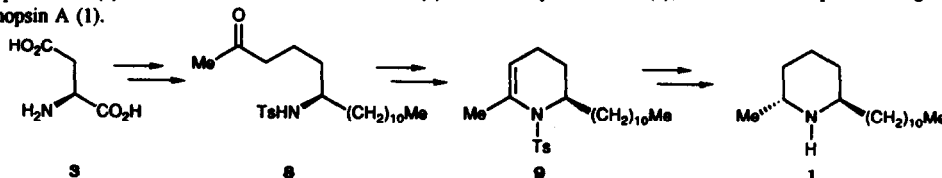
AN ENANTIOSPECIFIC SYNTHESIS OF SOLENOPSIN A

Tetrahedron Lett. 1993, 34, 2911

Charles W. Jefford* and Jian Bo Wang

Department of Organic Chemistry, University of Geneva, 1211 Geneva 4, Switzerland

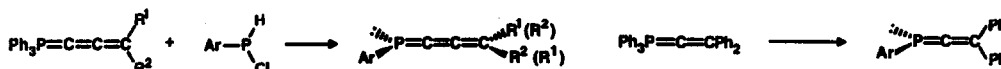
L-Aspartic acid (3) was converted to the amino-ketone (8) which on cyclization to (9), reduction and deprotection, gave solenopsin A (1).



λ^3 -Phosphaallene und λ^3 -Phosphabutatriene durch Umylidierung von λ^5 -Phosphaallenen und λ^5 -Phosphabutatrienen

Tetrahedron Lett. 1993, 34, 2915

G. Märkl, W. Bauer, Institut für Org. Chemie der Universität, Universitätsstraße 31, D-8400 Regensburg



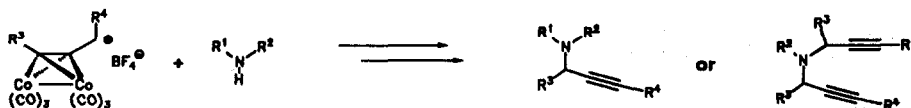
Nicholas Reactions of Amines

Klaus-Dieter Roth* and Utz Müller

Institut für Organische Chemie der Universität Erlangen, Henkestr. 42, W-8520 Erlangen

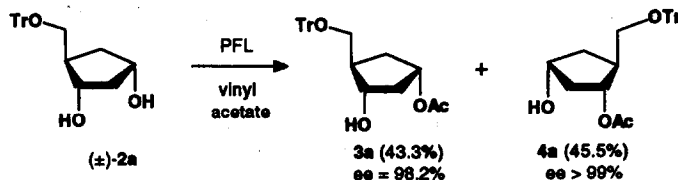
Nicholas reactions of amines produce mono- or bispropargylated tertiary amines.

Tetrahedron Lett. 1993, 34, 2919



The Influence of Protecting Groups on Lipase Catalyzed Transesterifications: Enzymatic Resolution of Racemic *cis*-1,3-Cyclopentandiol Derivatives

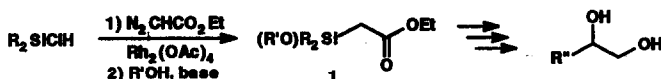
R. Henly^I, C.J.J. Elie^I, H.P. Buser^{II},
G. Ramos^{II} and H.E. Moser^{I*},
Central Research Laboratories^I and
Plant Protection Division^{II}
Ciba-Geigy Ltd,
CH-4002, Basle, Switzerland



A One Pot Synthesis of α -(Alkoxyallyl)acetic Esters

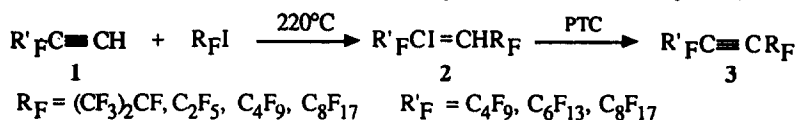
Olivier Andrey, Yannick Landais,* Denis Planchenault
Institut de Chimie Organique, Université de Lausanne, Rue de la Barre 2, 1005 Lausanne, Switzerland.

New α -(alkoxyallyl)acetic esters **1** have been prepared as shown below from chlorosilanes. An example of their conversion into terminal 1,2-diol is described.



Convenient Preparation of Unsymmetrical 1,2-bis(Perfluoroalkyl)ethynes. Véronique Sanchez and Jacques Greiner, Unité de Chimie Moléculaire, associée au CNRS, Université de Nice-Sophia Antipolis, Parc Valrose, 06108 Nice Cedex 02, France.

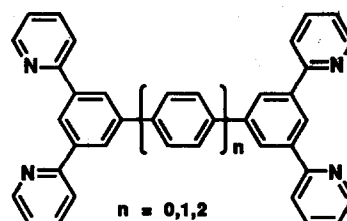
Unsymmetrical *F*-alkynes **3** were prepared by dehydroiodination of **2** in 50-65% yields (after distillation, based on consumed **2**) under phase transfer catalysis ($n\text{Bu}_4\text{NHSO}_4$).



SYNTHESIS OF BIS-CYCLOMETALLATING N-C-N HEXADENTATE LIGANDS VIA C-C AROMATIC COUPLINGS AND THEIR DINUCLEAR RUTHENIUM(II) COMPLEXES.

Marc Beley, Sandrine Chodorowski, Jean-Paul Collin and Jean-Pierre Sauvage
Laboratoire de Chimie Organo-Minérale, associé au CNRS, Faculté de Chimie,
1, rue Blaise Pascal, 67008 Strasbourg, France

By combining palladium catalyzed C-C coupling procedures either based on aromatic stannanes or utilizing boronic acids or esters (Suzuki's reaction), various biscyclometallating N-C-N ligands could be prepared.

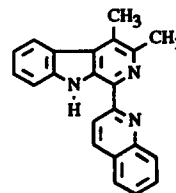


A NEW APPROACH TO THE SYNTHESIS OF LAVENDAMYCIN ANALOGUES.

Tetrahedron Lett. **1993**, *34*, 2937

Patrick ROCCA, Francis MARSAIS, Alain GODARD and Guy QUÉGUINER*.
URA CNRS 1429, INSA de Rouen, BP 08, 76131 Mt-St-Aignan Cédex, FRANCE.

A three-steps approach to the lavendamyacin skeleton from benzene, pyridine and quinoline blocks is described. It is based on a new synthetic methodology for the preparation of α -substituted β -carbolines which involves such reactions as Directed Ortho Metalation and Heteroring Cross-Coupling.

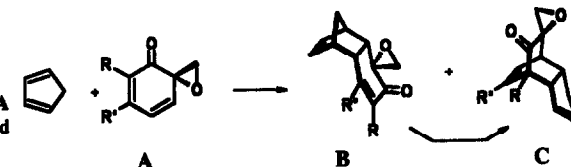


DIELS-ALDER REACTION OF CYCLOPENTADIENE AND SPIROEPOXY-2,4-CYCLOHEXADIENONES

Tetrahedron Lett. **1993**, *34*, 2941

J.-P. Gesson,* L. Hervaud and M. Mondon
Laboratoire de Chimie 12, Associé au CNRS
40, Avenue du Recteur Pineau, F-86022 Poitiers

Cyclopentadiene and spiroepoxycyclohexadienones (R,R'=H, OCH₃) afford mainly endo-endo adducts B and C. Cope rearrangement of B to C is also observed.



Preparation of Lactones with Several Ring Sizes via the Same Intermediate

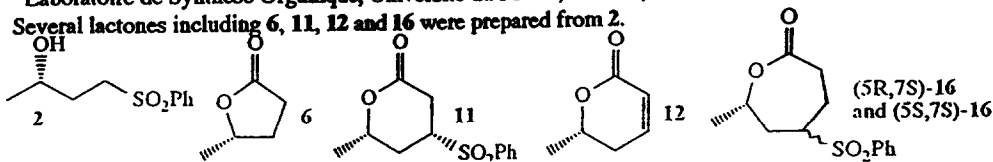
Tetrahedron Lett. **1993**, *34*, 2945

Sylvie Robin^a and François Hue^{a,b}

^aLaboratoire des Carbocycles, Bât. 420, Université de Paris Sud 91405 Orsay Cedex France

^bLaboratoire de Synthèse Organique, Université du Maine, BP 535, 72017 Le Mans Cedex France

Several lactones including 6, 11, 12 and 16 were prepared from 2.



***Ips*-Chlorination of 4-Alkylphenols Ethers.**

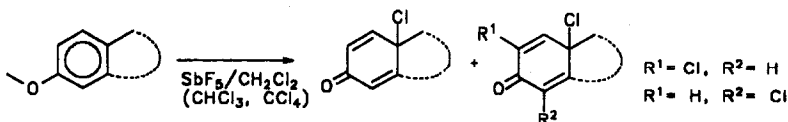
Tetrahedron Lett. **1993**, *34*, 2949

A Novel Route to 4-Chlorocyclohexa-2,5-dienones.

B. Ferron, J.C. Jacquesy, M.P. Jouannetaud, O. Karam, J.M. Coustard.

Laboratoire de Chimie XII associé au CNRS, Faculté des Sciences

40, Avenue du Recteur Pineau - 86022 Poitiers (France)

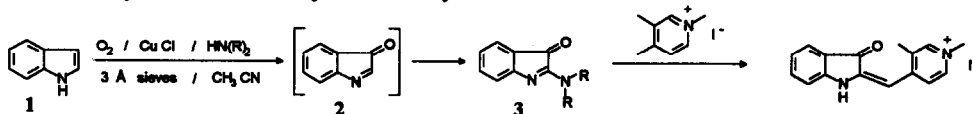


Tetrahedron Lett. 1993, 34, 2953

3-Oxo 3H-Indole from Dioxygen Copper-Catalyzed Oxidation of Indole: One-Flask Synthesis of 2-Dialkylamino 3-Oxo 3H-Indoles.

Patrice Capdevielle* and Michel Maumy, Laboratoire de Recherches Organiques de l'ESPCI, associé au CNRS, 10 rue Vauquelin, F - 75231 Paris Cedex 05, France.

Cu(I) catalyzed oxidation of 1 by O₂ in presence of dialkylamines leads via 2 to 2-dialkylamino 3-oxo 3H-indoles 3, new synthons for heterocyclic chemistry :



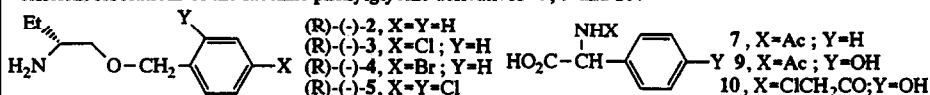
Tetrahedron Lett. 1993, 34, 2957

Q-BENZYL DERIVATIVES OF (S)-(+)- AND (R)-(-)-2-AMINO-BUTAN-1-OL AS NEW RESOLVING AGENTS FOR RACEMIC ACIDS. PRACTICAL RESOLUTIONS OF N-ACYL DERIVATIVES OF PHENYLGLYCINE AND 4-HYDROXYPHENYLGLYCINE

Joël Touet, Laurent Favariel and Eric Brown

URA-CNRS 482, Faculté des Sciences, avenue Olivier Messiaen, BP 535, 72017 Le Mans, France

Q-Benzylation of (R)-(-)-2-aminobutan-1-ol afforded the new bases (R)-(-)-2 to 5. The latter were used for efficient resolutions of the racemic phenylglycine derivatives 7, 9 and 10.



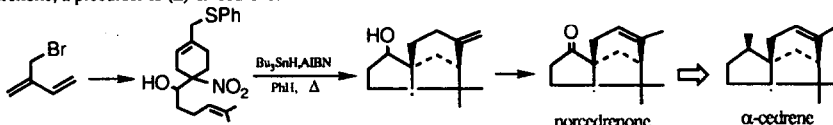
Tetrahedron Lett. 1993, 34, 2961

A NEW APPROACH TO THE FORMAL SYNTHESIS OF (±)-α-CEDRENE

Yao-Jung Chen*, Chew-Ming Chen, and Wen-Yuan Lin

Department of Chemistry, National Chung-Hsing University, Taichung, Taiwan 400, Republic of China

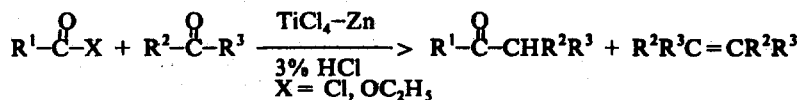
A tandem radical cyclization, which proceeds via an addition/elimination mechanism, has been applied to the synthesis of norcedrenone, a precursor to (±)-α-cedrene.



Tetrahedron Lett. 1993, 34, 2963

LOW-VALENT TITANIUM INDUCED REDUCTIVE COUPLING REACTION OF CARBOXYLIC DERIVATIVES WITH AROMATIC KETONES

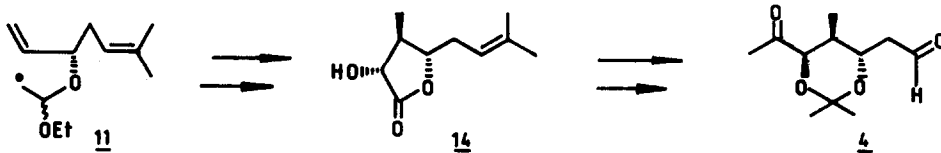
Da-qing Shi, Jian-xie Chen, Wen-ying Chai, Wei-xing Chen* and Tsi-yu Kao
Department of Chemistry, Nanjing University, Nanjing, 210008, China



STEREoselective SYNTHESIS OF C-9 TO C-14 SEGMENT, A KEY INTERMEDIATE FOR THE TOTAL SYNTHESIS OF TRIENOMYCIN AND MICOTRIENINS

Tetrahedron Lett. 1993, 34, 2965

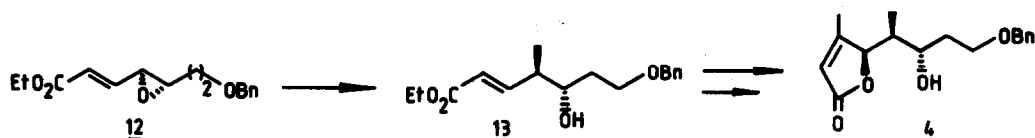
Yadav, J.S., Praveen Kumar, T.K., and Maniyan, P.P.
Indian Institute of Chemical Technology, Hyderabad 500 007, India



STEREOCONVERGENT SYNTHESIS OF C-9 TO C-16 FRAGMENT OF TRIENOMYCIN BASED ON THE REGIOSELECTIVE OPENING OF γ - δ -EPOXY ACRYLATES WITH TRIMETHYLALUMINIUM

Tetrahedron Lett. 1993, 34, 2969

Yadav, J.S., Praveen Kumar T.K., and Maniyan, P.P.
Indian Institute of Chemical Technology, Hyderabad 500 007, India

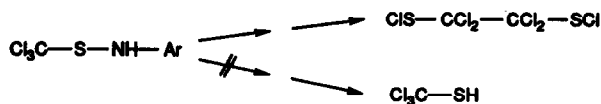


A COMPOUND PREVIOUSLY DESCRIBED AS TRICHLOROMETHANETHIOL IS IN FACT 1,1,2,2-TETRACHLORO-1,2-ETHANEDISULFENYL DICHLORIDE

Tetrahedron Lett. 1993, 34, 2973

Susanne B. Nielsen and Alexander Senning
Kemisk Institut, Aarhus Universitet, DK-8000 Århus C, Denmark.

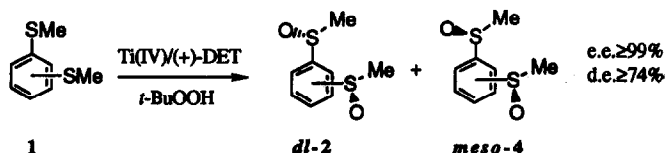
1,1,2,2-Tetrachloro-1,2-ethanedisulfonyl dichloride can be prepared by HCl cleavage of 2,3-bis-(4-methylphenyl)-5,5,6,6-tetrachloro-2,3,5,6-tetrahydro-1,4,2,3-dithiadiazine



Enantioselective Oxidation of Thioethers: an Easy Route to Enantiopure C₂ Symmetrical *dl*-Methylsulfinylbenzenes

Tetrahedron Lett. 1993, 34, 2975

Paolo Bendazzoli, Fulvio Di Furia, Giulio Licini*, Giorgio Modena
Centro Meccanismi Reazioni Organiche del CNR, Dipartimento di Chimica Organica dell'Università, via Marzolo 1, I-35131 Padova, Italy



The direct oxidation of *bis*-methylthioethers 1 afford the corresponding *dl bis*-methylsulfinylbenzenes 2 almost enantiomerically pure (e.e. ≥ 99%) in a process characterized also by a very high diastereoselectivity.

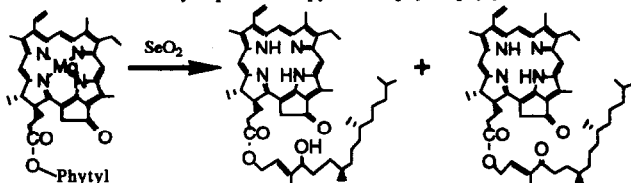
Tetrahedron Lett. 1993, 34, 2979

REGIOSELECTIVE OXIDATION OF THE PHYTYL CHAIN OF

PYROCHLOROPHYLL A. Andrei Yu. Tauber and Paavo H. Hynninen,

Department of Chemistry, University of Helsinki, P. O. Box 6, SF-00014 Helsinki, Finland

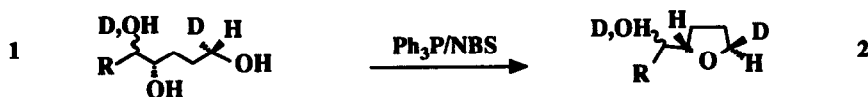
Regioselective oxidation of allylic position of pyrochlorophyll *a* phytol chain with selenium dioxide is described.



Tetrahedron Lett. 1993, 34, 2981

ON THE MECHANISM OF THE FORMATION OF TETRAHYDROFURANS FROM 1,4-DIOLS MEDIATED BY TRIPHENYLPHOSPHINE AND N-BROMOSUCCINIMIDE. Giovanni Fronza, Claudio Fuganti, Piero Grasselli, Giuseppe Pedrocchi-Fantoni, Stefano Servi, Dipartimento di Chimica and CNR, Politecnico di Milano, 20131 Milano, Italy.

The conversion of (1S) **1** into tetrahydrofuran **2** by $\text{Ph}_3\text{P/NBS}$ occurs with inversion of configuration at position 1.

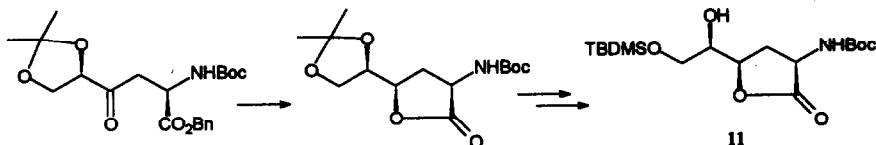


Tetrahedron Lett. 1993, 34, 2985

SHORT, STEREOSELECTIVE SYNTHESIS OF 4,5,6-TRIHYDROXYLATED NORLEUCINES: AN APPROACH TO THE SYNTHESIS OF (+)-BULGECININE

Richard F.W. Jackson* and Alan B. Rettie

Department of Chemistry, Bedson Building, The University of Newcastle, Newcastle upon Tyne, NE1 7RU, UK



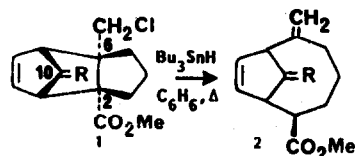
Tetrahedron Lett. 1993, 34, 2987

Strain Assisted Carbon-Carbon Bond Cleavage via Carbon Centred Radical. A Facile Route to Bridged Eight Membered Rings

Subrata Sarkar and Subrata Ghosh*

Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta - 700 032, India.

C-C bond cleavage during reaction of the chloroesters **1** to **2** with Bu_3SnH is found to be facilitated by the strain arising through non bonded interaction of $\text{C}_{10}\text{-H}$ with those at C_3 , C_4 , C_5 .

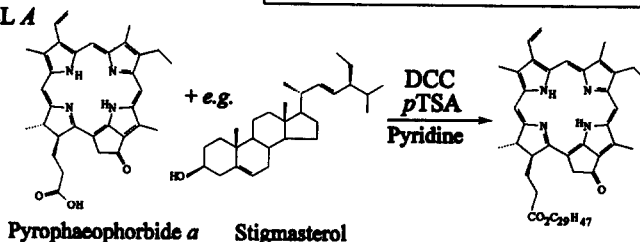


CHARACTERISATION OF NATURALLY OCCURRING STERYL ESTERS DERIVED FROM CHLOROPHYLL *a*

Tetrahedron Lett. 1993, 34, 2989

G.E.S. Pearce, B.J. Keely, P.J. Harradine, C.B. Eckardt, J.R. Maxwell*, Organic Geochemistry Unit, School of Chemistry, University of Bristol, Cantocks Close, Bristol, BS8 1TS, U.K.

A number of natural steryl esters of pyropheophorbide *a* have been identified by comparison with synthesised standards.

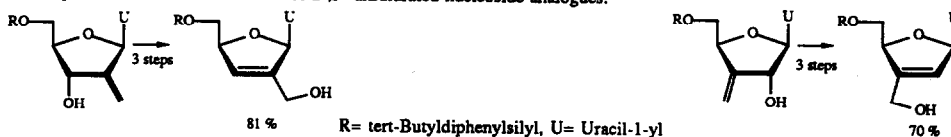


ALLYLIC ALCOHOL TRANSPOSITIONS IN THE CARBOHYDRATE MOIETY OF PYRIMIDINE NUCLEOSIDES

Tetrahedron Lett. 1993, 34, 2993

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The reagent system chlorodiphenylphosphine, imidazole, and iodine, is shown to be useful in a novel transposition reaction of allylic alcohols to provide access to a new class of 2',3'-unsaturated nucleoside analogues.

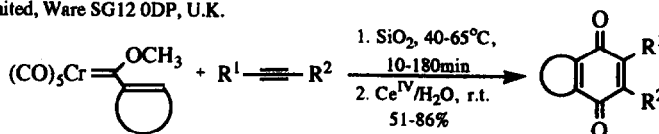


PROMOTION OF THE CHROMIUM CARBENE DÖTZ ANNULATION REACTION UNDER DRY STATE ADSORPTION CONDITIONS

Tetrahedron Lett. 1993, 34, 2995

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The reaction rates and product yields of the chromium carbene Dötz annulation reaction are enhanced, in most cases, when carried out on silica (solid state).



DIASTERESELECTIVE SYNTHESIS OF CHIRAL THIRANES BY 1,3-DIPOLAR CYCLOADDITION OF IMIDAZO[2,1-*b*]THIAZOLIUM-4-OLATE SYSTEMS WITH AROMATIC ALDEHYDES.

Tetrahedron Lett. 1993, 34, 2999

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