

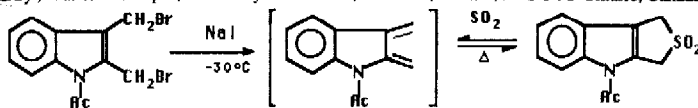
GRAPHICAL ABSTRACTS

Tetrahedron Lett. 30, 7289 (1989)

INDOLE-2,3-QUINODIMETHANES: GENERATION, REACTIVITY AND REGIOSELECTIVE CONTROL OF INTERMOLECULAR DIELS-ALDER REACTIONS

Susan F. Vice, Helena Nandin de Carvalho, Nicholas G. Taylor and Gary I. Dmitrienko
Centre Guelph-Waterloo for Graduate Work in Chemistry, Waterloo Campus, University of Waterloo, Waterloo, Ontario, N2L 3G1 Ontario, Canada.

N-acylindole-2,3-quinodimethanes generated from the *N*-acyl-2,3-bis(bromomethyl)indoles undergo a variety of cycloadditions including the reversible chelotropic reaction with sulphur dioxide to yield the unreported 1,3-dihydrothieno[3,4-*b*]indole-2,2-dioxide **9**.



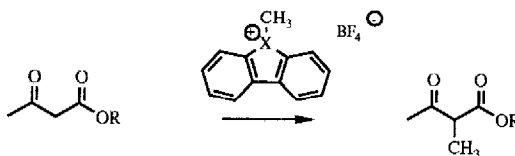
Tetrahedron Lett. 30, 7293 (1989)

CARBON-CARBON BOND FORMATION UNDER AQUEOUS REACTION CONDITIONS USING SULFONIUM AND SELENIUM SALT ELECTROPHILES

Jeffrey D. Winkler* and Martha Finck-Estes

Searle Chemical Laboratories, Department of Chemistry, The University of Chicago, Chicago, Illinois 60637

Methylation of carbon nucleophiles occurs at neutral pH in aqueous media using suitably substituted methyl sulfonium and selenium salt electrophiles (X = S, Se).

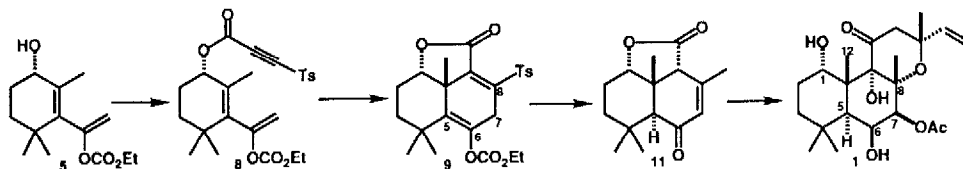


Tetrahedron Lett. 30, 7297 (1989)

A SHORT AND EFFICIENT ENANTIOSELECTIVE ROUTE TO A KEY INTERMEDIATE FOR THE TOTAL SYNTHESIS OF FORSKOLIN

E. J. Corey and Paul Da Silva Jardine

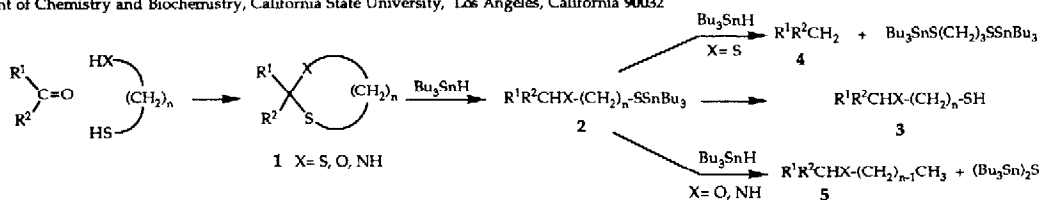
Department of Chemistry, Harvard University, Cambridge, Massachusetts, 02138



Tetrahedron Lett. 30, 7301 (1989)

SELECTIVE DESULFURIZATION OF 1,3-DITHIANES, -OXATHIOLANES AND -THIAZOLIDINES BY TRIBUTYL TIN HYDRIDE

K. Schmidt, S. O'Neal, T.C. Chan, C.P. Alexis, J.M. Uribe, K. Lossener, and C. G. Gutierrez*
Department of Chemistry and Biochemistry, California State University, Los Angeles, California 90032

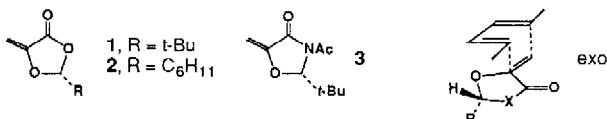


SYNTHESIS AND DIELS-ALDER REACTIONS OF 2-ALKYL-5-METHYLENE-1,3-DIOXOLAN-4-ONES AND 2-ALKYL-3-ACYL-5-METHYLENE-1,3-OXAZOLIDIN-4-ONES: HIGHLY EXO AND DIASTEREOFACE SELECTIVE CHIRAL KETENE EQUIVALENTS

Tetrahedron Lett. 30, 7305 (1989)

William R. Roush,* Amy P. Essinfeld, Joseph S. Warmus and Bradley B. Brown
 Departments of Chemistry, Indiana University, Bloomington, IN 47405-4201 and
 Massachusetts Institute of Technology, Cambridge MA 02139

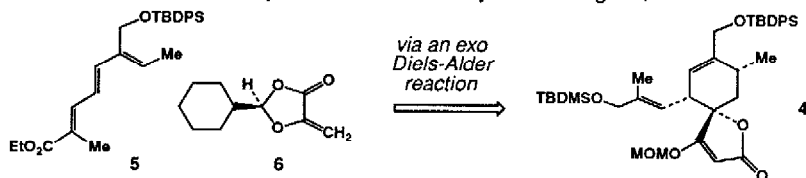
The synthesis and *exo*-selective Diels-Alder reactions of 1-3 are described.



DIASTEREOSELECTIVE SYNTHESIS OF THE TOP HALF OF KIJANOLIDE

Tetrahedron Lett. 30, 7309 (1989)

William R. Roush* and Bradley B. Brown
 Department of Chemistry, Indiana University, Bloomington, IN 47405-4201

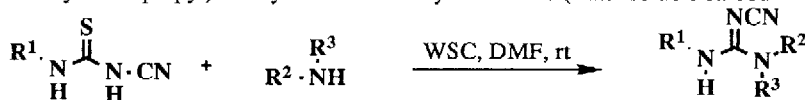


A FACILE SYNTHESIS OF CYANOGUANIDINES FROM THIOUREAS

Tetrahedron Lett. 30, 7313 (1989)

Karnail S. Arwal*, Syed Z. Ahmed and Brian C. O'Reilly
 The Squibb Institute for Medical Research, P. O. Box 4000, Princeton, N.J. 08543-4000

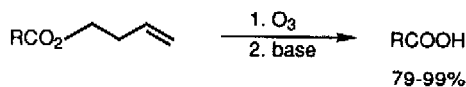
A facile synthesis of cyanoguanidines from corresponding thioureas is reported using 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (water soluble carbodiimide).



3-BUTENYL ESTERS AS CONVENIENT PROTECTING GROUPS FOR CARBOXYLIC ACIDS

Tetrahedron Lett. 30, 7317 (1989)

Anthony G.M. Barrett,* Suzanne A. Lebold and Xiao-an Zhang
 Department of Chemistry, Northwestern University, Evanston, IL 60208

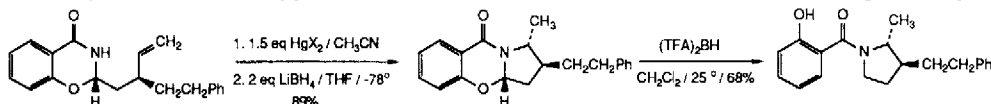


3-Butenyl esters have been shown to be effective as carboxylic acid protecting groups. Mild regeneration of the acid functionality under non-aqueous conditions has been achieved by ozonolysis and subsequent β -elimination of the acyloxypropanal.

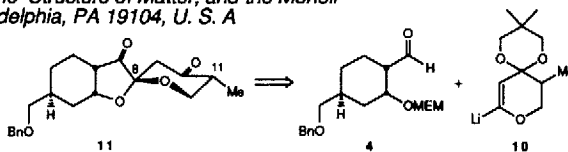
Tetrahedron Lett. 30, 7321 (1989)**A REMOVABLE AUXILIARY FOR AMIDOMERCURATION REACTIONS:
THE STEREOSELECTIVE PREPARATION OF SUBSTITUTED N-ACYL
PYRROLIDINES AND PIPERIDINES**

James M. Takacs*, Mark A. Helle, and Fusao Takusagawa

Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0304

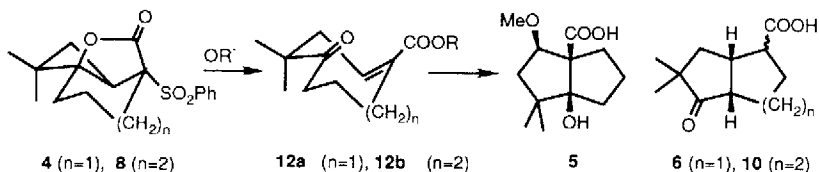
Salicylamide condenses with γ,δ - or δ,ϵ -unsaturated aldehydes to give cyclic amidals which readily undergo diastereoselective mercury(II)-mediated amidocyclization. The resulting products serve as versatile intermediates for further elaboration as nitrogen heterocycles.Tetrahedron Lett. 30, 7325 (1989)**PHYLLANTHOSIDE-PHYLLANTHOSTATIN. SYNTHETIC
STUDIES. 6. AN AUGMENTED SPIROKETALIZATION
TACTIC FOR THE TOTAL SYNTHESIS OF PHYLLANTHOCIN**

Amos B. Smith, III,* James R. Empfield, and Henry A. Vaccaro

Department of Chemistry, the Laboratory for Research on the Structure of Matter, and the Monell
Chemical Senses Center, University of Pennsylvania, Philadelphia, PA 19104, U. S. AAn augmented spiroketalization maneuver permitting
equilibration at both the C(8) and C(11) centers of 11
leads to a more concise and efficient synthesis of
phyllanthocin (i.e., 21 steps, 5.6% overall yield).Tetrahedron Lett. 30, 7329 (1989)**"ACCORDION" REARRANGEMENTS OF CYCLOBUTANE
 α -SULFONYL LACTONES**

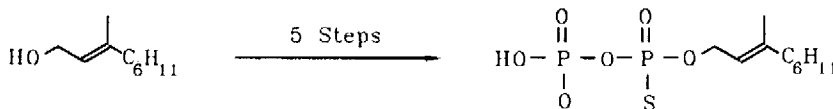
Andrew S. Kende* and István Káldor

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

Rearrangement of α -sulfonyl
lactones 4 and 8 by alkoxi-
des proceeds by Grob frag-
mentation to trans-cycloalkene
esters (12) which may under-
go subsequent cyclization to
give acids 5, 6 or 10.Tetrahedron Lett. 30, 7333 (1989)**SYNTHESIS OF O-GERANYL (1-THIO)DIPHOSPHATE**

Douglas S. Mautz, V. Jo Davisson, and C. Dale Poulter*

Department of Chemistry, University of Utah, Salt Lake City, Utah 84112.

Abstract: O-Geranyl (1-thio)diphosphate was synthesized from geraniol via H-phosphonate and thiophosphate intermediates in 5 steps with an overall yield of 20%.

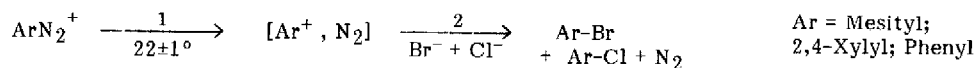
Tetrahedron Lett. 30, 7337 (1989)

**ON THE ABSOLUTE REACTIVITY OF ARYL CATIONS:
SELECTIVITY TOWARD HALIDE IONS AS A FUNCTION
OF VISCOSITY**

John P. Lorand

Department of Chemistry, Central Michigan University, Mt. Pleasant, MI 48859

The ratio k_{Br^-}/k_{Cl^-} —from product yields (hplc)—does not decrease with increasing viscosity. Step 2, thus appears to be fully diffusion controlled.

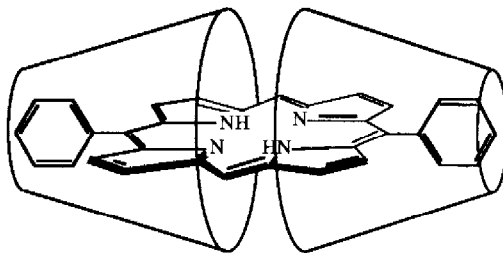


Tetrahedron Lett. 30, 7341 (1989)

SELF-ASSEMBLY OF A HYDROPHOBIC GROOVE

J. S. Manka and D. S. Lawrence, Department of Chemistry
State University of New York, Buffalo, NY 14214

The self-assembly of a complex containing a porphyrin encapsulated by two cyclodextrins is described.

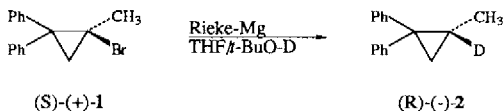


**MECHANISM OF GRIGNARD REAGENT FORMATION
FURTHER EVIDENCE FOR THE SURFACE NATURE OF
THE REACTION**

Janusz Rachon and H.M. Walborsky*

Department of Chemistry, Florida State University, Tallahassee, Florida 32306

The use of Rieke-magnesium permits one to obtain reaction with (S)-(+)-1-bromo-1-methyl-2,2-diphenylcyclopropane (I) at -65°C to yield a hydrocarbon 2 that is 33-43% optically pure.



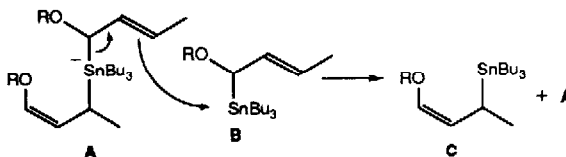
Tetrahedron Lett. 30, 7345 (1989)

**ON THE 1,3-ISOMERIZATION OF NONRACEMIC
 α -(ALKOXY)ALLYLSTANNANES**

James A. Marshall* and Wei Yi Gung

Department of Chemistry, University of South Carolina, Columbia, SC 29208 USA

A novel mechanism involving the stannate A is proposed for the 1,3-isomerization of allylstannanes (B \rightarrow C).



Tetrahedron Lett. 30, 7349 (1989)

Tetrahedron Lett. 30, 7353 (1989)

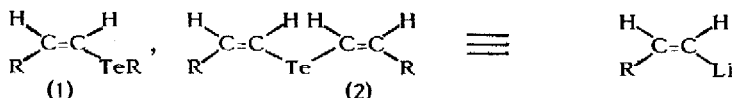
VINYLLITHIUMS FROM BUTYL-VINYL TELLURIDES AND BIS-VINYL TELLURIDES

Simone M. Barros^a, João Valdir Comasseto^{*b} and Jorge Berriel^b

^aDepartamento de Química Fundamental, Universidade Federal de Pernambuco, Recife (PE) - Brasil

^bInstituto de Química, Universidade de São Paulo, CEP-01498 Cx. Postal - 20.780, São Paulo (SP) - Brasil

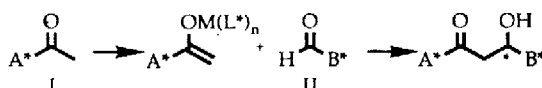
Butyl-vinyl tellurides (1) and bis-vinyl tellurides (2) are synthetic equivalents of vinylolithiums.



Tetrahedron Lett. 30, 7357 (1989)

TRIPLE ASYMMETRIC SYNTHESIS FOR FRAGMENT ASSEMBLY : VALIDITY OF APPROXIMATE MULTIPLICATIVITY OF THE THREE DIASTEREOFACIAL SELECTIVITIES

Allen J. Duplantier, Michael H. Nantz, John C. Roberts, Robert P. Short, Peter Somfai, and Satoru Masamune*
Department of Chemistry, Massachusetts Institute of Technology Cambridge, Massachusetts 02139



In the assembly of two chiral fragments (I and II) via an aldol reaction, use of a chiral external reagent (e.g. 2,5-dimethylborolanyl triflate) modifies the diastereofacial selectivity (D.S.) of I, thus providing a means of controlling the stereochemical course of the reaction. The stereochemical outcome of this type of triple asymmetric synthesis supports a rule of approximate multiplicativity of D.S.'s of the three chiral components.

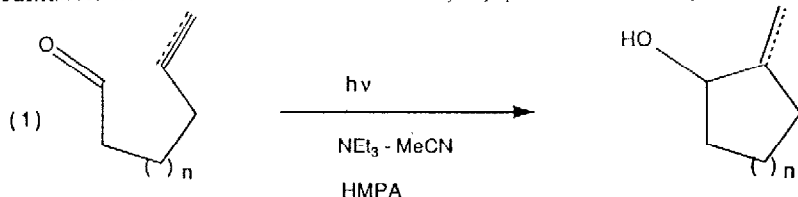
Tetrahedron Lett. 30, 7361 (1989)

PHOTOREDUCTIVE CYCLIZATION OF UNSATURATED ALDEHYDES: AN EASY ACCESS TO SPIRANIC MOLECULES

J. COSSY, J.P. PETE, C. PORTELLA

Laboratoire des Réarrangements Thermiques et Photochimiques, Unité Associée au CNRS n° 459, Université de Reims Champagne-Ardenne, 51062 Reims Cédex, France

Substituted cyclo and spiroalkanois have been obtained efficiently by photoreductive cyclization of ω -unsaturated aldehydes



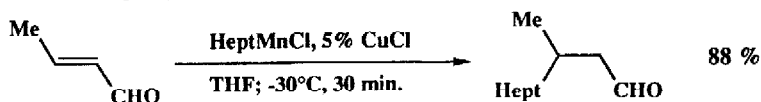
Tetrahedron Lett. 30, 7365 (1989)

ORGANOMANGANESE (II) REAGENTS XVIII: COPPER-CATALYZED 1,4- ADDITION OF ORGANOMANGANESE CHLORIDE COMPOUNDS TO CONJUGATED ETHYLENIC ALDEHYDES.

Gérard CAHIEZ* and Mouad Alami

Laboratoire de Chimie des Organocléments; Université P. & M. Curie, 4 Place Jussieu F-75252 PARIS Cédex 05

Organomanganese chlorides react with β -mono or β,β -bisubstituted α,β -ethylenic aldehydes in the presence of a catalytic amount of copper chloride to give good yields of 1,4-addition products in THF at -30°C .

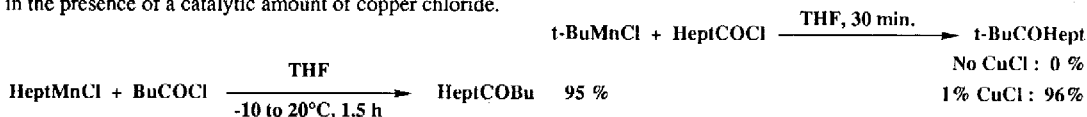


ORGANOMANGANESE (II) REAGENT XIX.
 ACYLATION OF ORGANOMANGANESE CHLORIDES BY CARBOXYLIC ACID CHLORIDES IN THF:
 A CLEAR IMPROVEMENT IN THE FIELD OF THE PREPARATION OF KETONES FROM
 ORGANOMANGANESE COMPOUNDS.

Gérard CAHIEZ* and Blandine Laboue

Laboratoire de Chimie des Organocéléments; Université P. & M. Curie, 4 Place Jussieu F-75252 PARIS Cédex 05

Organomanganese chloride reagents react with carboxylic acid chlorides, in THF, to give the corresponding ketones in excellent yields. With methyl, aryl, alkenyl and s- or t-alkylmanganese chlorides, the acylation is advantageously performed in the presence of a catalytic amount of copper chloride.



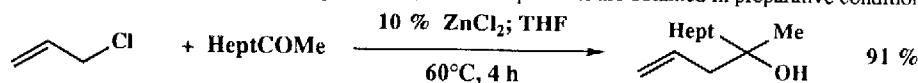
Tetrahedron Lett. 30, 7369 (1989)

ORGANOMANGANESE (II) REAGENTS XX:
 MANGANESE MEDIATED BARBIER AND REFORMATSKY LIKE REACTIONS
 AN EFFICIENT ROUTE TO HOMOALLYLIC ALCOHOLS AND β-ACETOXYESTERS

Gérard CAHIEZ* and Pierre-Yves Chavant

Laboratoire de Chimie des Organocéléments; Université P. & M. Curie, 4 Place Jussieu F-75252 PARIS Cédex 05

Allylic halides and α-bromoesters react with manganese metal in ethyl acetate; THF can also be used as solvent if a catalytic amount of zinc chloride is added to the reaction mixture. When the reaction is performed in the presence of various aldehydes or ketones, excellent yields of 1,2-addition products are obtained in preparative conditions.



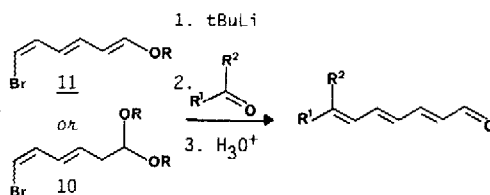
Tetrahedron Lett. 30, 7373 (1989)

FUNCTIONALISED VINYLIC ORGANOLITHIUM COMPOUNDS,
 SYNTHETIC EQUIVALENT OF ω-LITHIO SORBALDEHYDE.

L. DUHAMEL*, G. PLE and Y. RAMONDENC

UFR Sciences et Techniques de Rouen, URA 464 et IRCOF,
 B.P. 118 76134 Mont Saint Aignan France.

The trivinylogation of carbonyl compounds is realized using functionalized vinylic organolithium reagents, prepared from 10 and 11 by bromine-lithium exchange.



Tetrahedron Lett. 30, 7377 (1989)

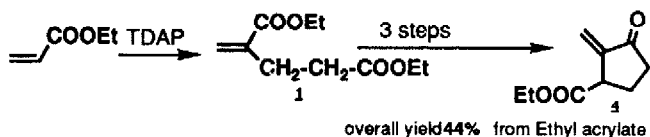
A SHORT LARGE SCALE SYNTHESIS
 OF (±) SARKOMYCIN ESTERS.

H. AMRI*, M. RAMBAUD** et J. VILLIERAS**

Département de Chimie, Faculté des Sciences, Campus Universitaire 1060 - TUNIS, TUNISIE(*)

Laboratoire de Synthèse Organique Sélective et Matériaux, associé au CNRS Faculté des Sciences et des Techniques,
 44072 NANTES Cedex 03 FRANCE(**)

(±) Sarkomycin ethyl ester **4**
 has been prepared in four steps
 from ethyl acrylate via diethyl
 methylene-2 glutarate **1**.



Tetrahedron Lett. 30, 7381 (1989)

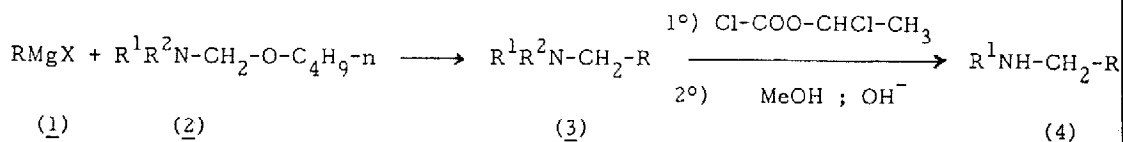
ALKYLAMINOMETHYLATION D'ORGANOMAGNESIENS.

Tetrahedron Lett. 30, 7383 (1989)

E. YANKEP et H. KAPNANG

Département de Chimie Organique, Faculté des Sciences, BP. 812 Yaoundé (Cameroun)

G. CHARLES*, Département de Biologie Appliquée, I.U.T. 17026 La Rochelle (France)

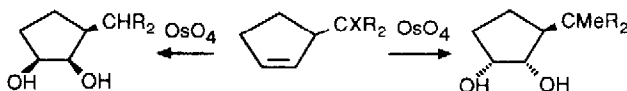


R = n-C₈H₁₇, cyclo-C₆H₁₁, CH₂=CH-CH₂, C₆H₅-CH₂; R¹=CH₃, n-C₆H₁₃; R²=C₆H₅-CH₂, cyclo-C₆H₁₁

Tetrahedron Lett. 30, 7385 (1989)

THE OSMYLATION OF FLEXIBLE 3-SUBSTITUTED CYCLOPENTENES

Giovanni Poli, Institut de Chimie Organique, 2 Rue de la Barre, Lausanne



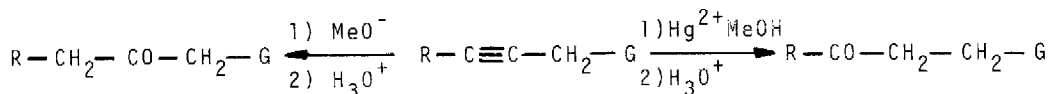
The osmylation of several 3-substituted cyclopentenes has been studied. A preference for OsO₄ addition *syn* to an allylic CHR₂ group is observed. Bulkier substituents (CMeR₂) give rise to a striking reversal of selectivity.

Tetrahedron Lett. 30, 7389 (1989)

SULFONE MEDIATED RUPE AND RAPHAEL REARRANGEMENTS

V. Barre, F. Massias and D. Uguen*

Laboratoire de chimie, Ecole normale supérieure
24, rue Lhomond, 75231 PARIS Cedex 05.



89-100%

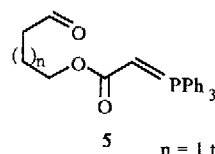
Intramolecular Wittig Reactions Applied to the Synthesis of Medium Sized α , β -Unsaturated Lactones and Dilactones.

Tetrahedron Lett. 30, 7393 (1989)

F. Yvergnaux^(a), Y. Le Floch^(a), R. Grée^(a), L. Toupet^(b).

(a) Laboratoire de Chimie Organique Biologique, E.N.S.C.R., Av. du Gal Leclerc, 35700 Rennes, France.

(b) Département de Physique Cristalline, Université de Rennes I, 35042 Rennes Cedex, France.



Short syntheses of phosphoranes **5** are described; depending upon chain length, their Wittig reaction give various amounts of mono-, di- or triunsaturated lactones.

5 n = 1 to 7

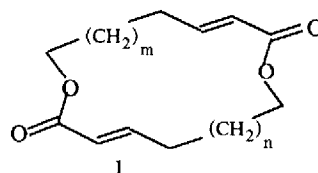
A SHORT AND CONVERGENT SYNTHESIS OF UNSATURATED MACRODILACTONES.

Tetrahedron Lett. 30, 7397 (1989)

F. Yvergnaux, Y. Le Floch, R. Grée.

Laboratoire de Chimie Organique Biologique, E.N.S.C.R., Av. du Gal Leclerc, 35700 Rennes, France.

A simple and versatile approach to macrodilactides **1**, using two consecutive Wittig reactions, is described.

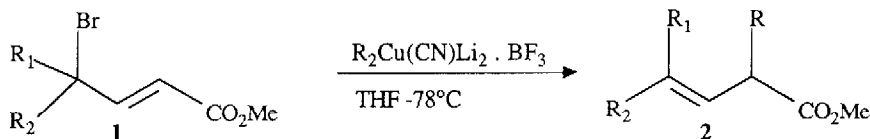


REGIOSELECTIVE SN' ALLYLIC SUBSTITUTION VERSUS 1,4-ADDITION. SYNTHESIS OF α -SUBSTITUTED β,γ -UNSATURATED ESTERS.

Tetrahedron Lett. 30, 7399 (1989)

C. GIRARD, I. ROMAIN, M. AHMAR and R. BLOCH*

Laboratoire des Carbocycles (Associé au C.N.R.S.), Institut de Chimie Moléculaire d'Orsay, Bât. 420 Université de Paris-Sud, 91405 ORSAY (France)



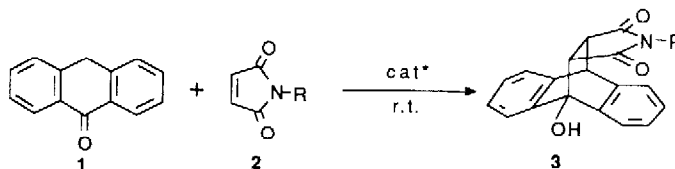
$\text{R}_1 = \text{R}_2 = -\text{CH}_3, -\text{H}$ $\text{R}_1 = -\text{CH}_3, \text{R}_2 = -\text{H}$ $\text{R} = -\text{CH}_3, -n\text{C}_4\text{H}_9, -\text{CH}_2=\text{CH}_2, -\text{C}_6\text{H}_5, -\text{Si}(\text{CH}_3)_2\text{C}_6\text{H}_5$

Tetrahedron Lett. 30, 7403 (1989)

ASYMMETRIC DIELS-ALDER REACTION CATALYZED BY CHIRAL BASES

O. Riant and H. B. Kagan* : Laboratoire de Synthèse Asymétrique, Université Paris-Sud, 91405 Orsay, France.

Anthrone **1** has been found to react with N-substituted maleimides **2** in presence of catalytic amounts of various chiral β -aminoalcohols (ee up to 60%).



REDUCTIVE COUPLINGS OF ACID CHLORIDES MEDIATED BY SmI_2

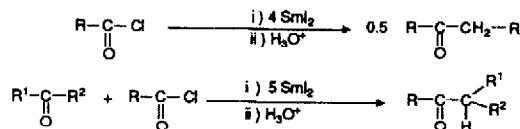
Tetrahedron Lett. 30, 7407 (1989)

J. Collin, F. Dallemer, J.L. Namy and H.B. Kagan*.

Laboratoire de Synthèse Asymétrique Associé au CNRS,

Institut de Chimie Moléculaire d'Orsay, Université Paris-Sud, 91405 Orsay, France.

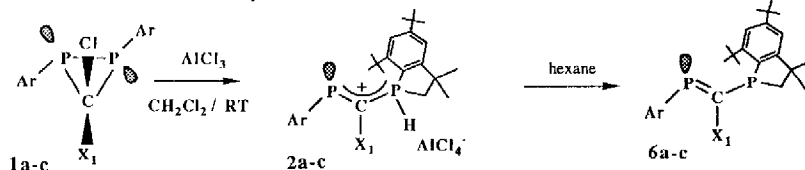
Ketones are obtained by coupling of acid chlorides or by coupling of acid chlorides with aldehydes or ketones in presence of an excess of SmI_2 .



Tetrahedron Lett. 30, 7411 (1989)

CATIONIC RING OPENING OF FUNCTIONALIZED DIPHOSPHIRANES.

M. Gouygou¹, C. Tachon¹, G. Etamad-Moghadam², M. Koenig^{1*}, ¹UA 454, ²LCC- Université P. Sabatier -31062 Toulouse - FRANCE.



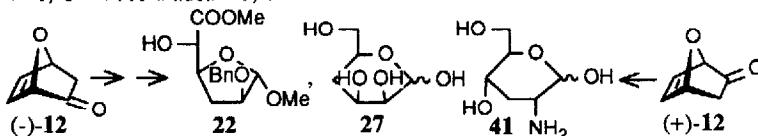
The diphosphiranes **1a-c** by action of AlCl_3 , undergo the cationic ring opening leading to the 1,3-phosphenium-phosphonium ions **2a-c** by electrocyclic reaction, **2a-c**, taken up in hexane are instantaneously deprotonated and give the stable **6a-c**.

Tetrahedron Lett. 30, 7415 (1989)

THE ELECTRON-RELEASING HOMOCONJUGATED CARBONYL GROUP. APPLICATION TO THE TOTAL SYNTHESIS OF 3-DE-OXY-, 4-DEOXY-HEXOSE, LIVIDOSAMINE AND DERIVATIVES

Daniela Fattori, Etienne de Guchteneere and Pierre Vogel* Institut de chimie organique de l'Université, 2, rue de la Barre, CH-1005 Lausanne, Switzerland

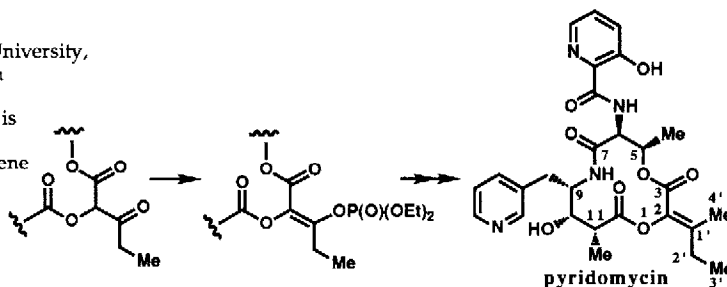
The regioselective electrophilic additions of "naked sugars" (-)-**12** and (+)-**12** were exploited to develop total syntheses of deoxy hexose **22**, **27** and of D-lividosamine (**41**)



TOTAL SYNTHESIS OF PYRIDOMYCIN

Mitsuhiro Kinoshita,* Masaya Nakata, Kenji Takarada, and Kuniaki Tatsuta* Department of Applied Chemistry, Keio University, Hiyoshi, Kohoku-ku, Yokohama 223, Japan

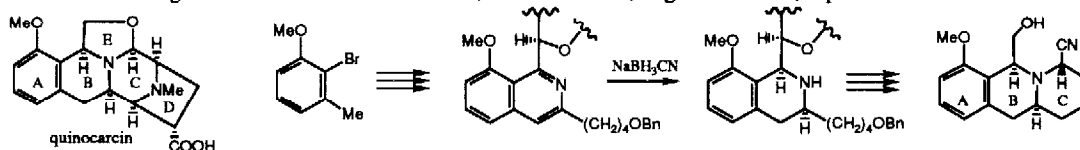
The first total synthesis of pyridomycin is described including the stereocontrolled construction of the exocyclic(Z)-s-butyldiene moiety in the 12-membered ring system.



Tetrahedron Lett. 30, 7419 (1989)

CHIRAL SYNTHESIS OF THE ABC-RING SYSTEM OF QUINOCARCIN

Shoichi Saito, Katsunori Tanaka, Kazuhiko Nakatani, Fuyuhiko Matsuda, and Shiro Terashima* Sagami Chemical Research Center, Nishi-Ohnuma, Sagamihara 229, Japan

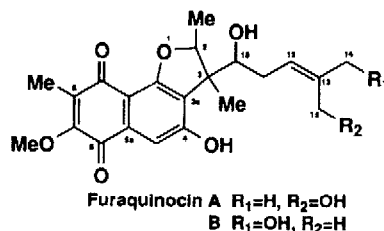


Tetrahedron Lett. 30, 7423 (1989)

STRUCTURES OF NOVEL ANTIBIOTICS, FURAQUINOCINS A AND B

Shinji Funayama, Masami Ishibashi, Yumi Anraku,
Kanki Komiyama and Satoshi Omura*
The Kitasato Institute, and School of Pharmaceutical
Sciences, Kitasato University, 5-9-1 Shirokane,
Minato-ku, Tokyo 108, Japan

Tetrahedron Lett. 30, 7427 (1989)



SYNTHESIS AND REACTION OF A NEW TYPE OF 5-DEAZAFLAVIN WITH AXIAL AND PLANAR CHIRALITY

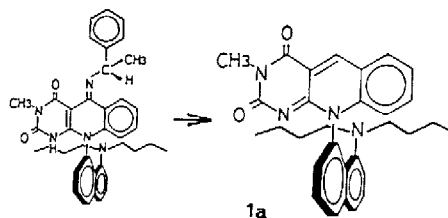
Tetsuji Kawamoto,¹ Kiyoshi Tanaka,¹ Fumio Yoneda,¹
and Jun-ichi Hayami²

¹Faculty of Pharmaceutical Sciences, Kyoto University,
Sakyo-ku, Kyoto 606, Japan

²Department of Chemistry, College of Liberal Arts and Sciences,
Kyoto University, Sakyo-ku, Kyoto 606, Japan

Optically pure titled compounds 1a and its enantiomer
were prepared through a unique resolution. They have a
marked ability of chiral recognition in a model reaction
of intercoenzyme hydrogen transfer.

Tetrahedron Lett. 30, 7431 (1989)

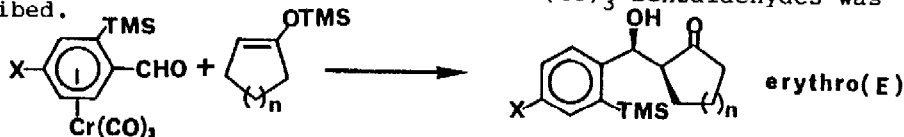


A Highly Erythro Selective Aldol Reaction Between Chromium-Complexed Benzaldehyde Derivatives and Cyclic Silyl Enol Ethers

Chisato Mukai, Won Jea Cho, and Miyoji Hanaoka*

Faculty of Pharmaceutical Sciences, Kanazawa University, Kanazawa 920 Japan

The erythro selective aldol reaction of $Cr(CO)_3$ -benzaldehydes was
described.

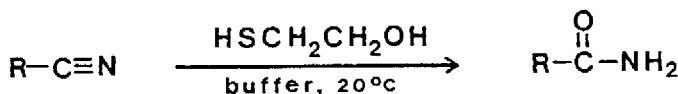


Tetrahedron Lett. 30, 7435 (1989)

HYDROLYSIS OF VARIOUS NITRILE COMPOUNDS TO THE AMIDES BY CATALYSIS OF 2-MERCAPTOETHANOL IN A PHOSPHATE BUFFER

Young Bok Lee, Yang Mo Goo*, Youn Young Lee¹ and Jae Keun Lee²
Department of Pharmacy and ¹Department of Chemistry, Seoul National
University, Seoul, 151-742 and ²Department of Chemistry, Kyung
Pook National University, Taegu, 702-701, Korea

Tetrahedron Lett. 30, 7439 (1989)

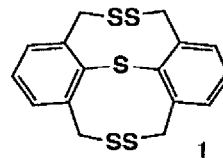


Tetrahedron Lett. 30, 7441 (1989)

SYNTHESIS OF A NEW TYPE OF QUADRUPLY ORTHO-BRIDGED BIPHENYL COMPOUNDS WITH DISULFIDE LINKAGE, AND ITS SULFUR EXTRUSION IN CONCD H_2SO_4 AND PHOTOCHEMICAL CONDITION

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

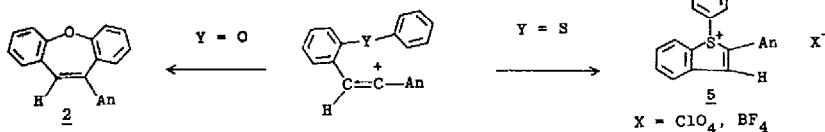
A new type of the sulfur extrusion of a new methanodithio-methano-bridged dibenzotrithionin (1) was found in the reaction of 1 with concd H_2SO_4 or 2 equiv of $NOPF_6$ and in its photochemical reaction.



Tetrahedron Lett. 30, 7445 (1989)

ELECTROPHILIC ADDITION TO o-ARY-SUBSTITUTED PHENYLALKYNES. A HIGHLY SELECTIVE CYCLIZATION CONTROLLED BY HETEROATOMS

Tsugio Kitamura,* Tatsuya Takachi, Hironobu Kawasato, Shinjiro Kobayashi, and Hiroshi Taniguchi*
Department of Applied Chemistry, Faculty of Engineering,
Kyushu University 36, Hakozaki, Fukuoka 812, Japan

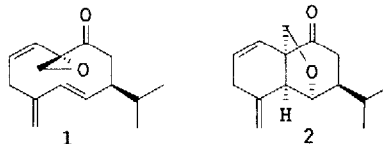


Tetrahedron Lett. 30, 7447 (1989)

CLARIFICATION OF THE STRUCTURE OF PERSOONS'S PERIPLANONE-A, AN ARTIFACT DERIVED FROM HAUPTMANN'S PERIPLANONE-A

Shigefumi Kuwahara and Kenji Mori*
Department of Agricultural Chemistry, The University of Tokyo,
Yayoi 1-1-1, Bunkyo-ku, Tokyo 113, Japan

Thermolysis of Hauptmann's periplanone-A 1 by GLC gave Persoons's periplanone-A, of which structure was determined unambiguously to be 2.



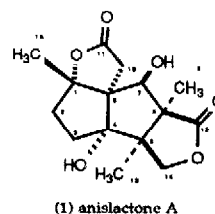
Tetrahedron Lett. 30, 7451 (1989)

Structure of anislactone A; a new skeletal type of sesquiterpene from the pericarps of *Illicium anisatum*

Isao Kouno,^{a*} Kaori Mori,^a Nobusuke Kawano,^a and Sadao Sato^b

^aFaculty of Pharmaceutical Sciences, Nagasaki University, Bukyo-machi 1-14, Japan and ^bAnalytical and Metabolic Research Lab., Sankyo Co. Ltd., Hiromachi, Shinagawa-ku, Tokyo 140, Japan

A novel sesquiterpene lactone was isolated from the pericarps of *Illicium anisatum*, a well known toxic plant in Japan, and its structure was established from spectral data and X-ray crystallographic analysis.

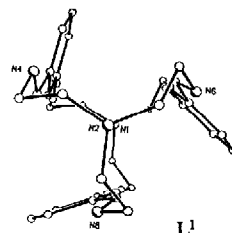


Tetrahedron Lett. 30, 7453 (1989)

SOLID STATE STRUCTURE AND SOLUTION CONFORMATION OF
A MACROBICYCLIC CYCLOPHANE

Vickie McKee,^a Ward T. Robinson,^a Debbie McDowell^{b,c} and Jane Nelson^{b,c}
^a Dept. of Chemistry, University of Canterbury, Christchurch 1, N.Z. ^b Open University,
40 University Road, Belfast BT7 1SU ^c Dept. of Chemistry, Queen's University, Belfast, BT9 5AG

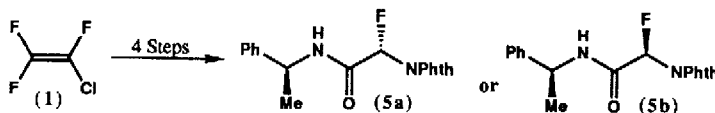
The macrobicyclic Schiff-base *m*-cyclophane L¹ has a conformation involving edge to face approach of aromatic rings in both solid state and solution.

Tetrahedron Lett. 30, 7457 (1989)

ASYMMETRIC SYNTHESIS OF PROTECTED α -FLUOROGLYCINES

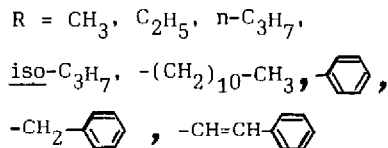
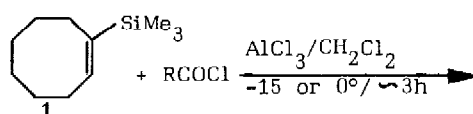
Patrick D. Bailey,* Andrew N. Boa, Gavin A. Crofts,
Maria van Diepen, Madeleine Helliwell, Robert E. Gammon and Michael J. Harrison
Department of Chemistry, University of York, Heslington, York YO1 5DD, UK.

A 4 step synthesis of optically pure protected α -fluoroglycines (5a/b) of known absolute stereochemistry is described.

Tetrahedron Lett. 30, 7461 (1989)

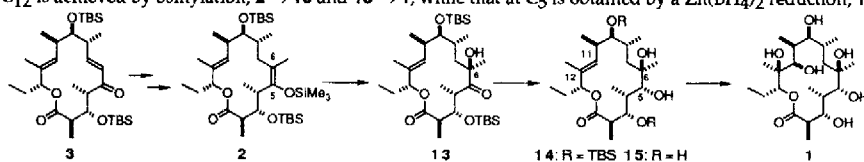
A FACILE ROUTE TO BICYCLO[3.3.0]OCTANES THROUGH CLEAN TRANSANNULAR
CYCLISATION OF 1-TRIMETHYLSILYL-CYCLOOCTENE UNDER FRIEDEL-CRAFTS CONDITION

B.S. Bandodakar and G. Nagendrappa*
Department of Chemistry, Bangalore University
(Central College), Bangalore-560 001, India.

Tetrahedron Lett. 30, 7463 (1989)

STUDIES IN MACROLIDE SYNTHESIS:
A HIGHLY STEREOSELECTIVE SYNTHESIS
OF (+)-(9S)-DIHYDROERYTHRONOLIDE A USING MACROCYCLIC STEREOCONTROL.

Ian Paterson* and David J. Rawson, University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK
(+)-(9S)-Dihydroerythronolide A, 1, is prepared in 8 steps from macrolide 3. The stereocontrolled introduction of the hydroxyl groups at C₆, C₁₁, and C₁₂ is achieved by osmylation, 2 → 13 and 15 → 1, while that at C₅ is obtained by a Zn(BH₄)₂ reduction, 13 → 14.



C-C BOND CLEAVAGE IN THE INTERACTION OF ANTHRAQUINONE
TRIPLET WITH TERTIARY ALCOHOLS AND TERTIARY BUTYL BENZENE

G.Móger and M.Győr

Central Research Institute for Chemistry, Hungarian Academy of Sciences, H-1525 Budapest,
P.O.Box 17, Hungary

In the photochemical reaction of anthraquinone triplet with both tertiary alcohols and tert.
Bu-benzene in C_6H_6 at $\lambda \geq 334$ nm not only C-H (or O-H) bonds but C-C bonds are also broken,
yielding CH_3 , and $R_1\dot{C}(R_2)OH$ (or $C_6H_5\dot{C}(CH_3)_2$) radicals, at room temperature.

RADICAL CYCLISATIONS OF PROPARGYL BROMOAMIDES AND
PROPARGYL BROMOESTERS. NEW ROUTES TO TETRAMIC ACIDS,
PYRROLINONES, TETRONIC ACIDS AND BUTENOLIDES.

John M. Clough, Gerald Pattenden* and Paul G. Wight.
Department of Chemistry, The University,
Nottingham, NG7 2RD.

Radical cyclisations of (1) produce
precursors (2) to the title compounds (3)
and (4).

