

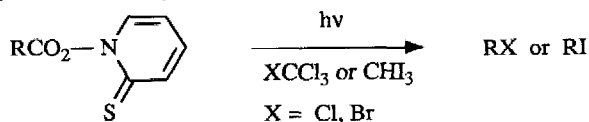
GRAPHICAL ABSTRACTS

Tetrahedron Lett. 30, 2461 (1989)

LIGHT INDUCED HALOGENATIVE DECARBOXYLATION OF THIOHYDROXAMIC ESTERS.

William G. Dauben*, Bruce A. Kowalczyk, Dominique P. Bridon
Department of Chemistry, University of California, Berkeley, CA 94720.

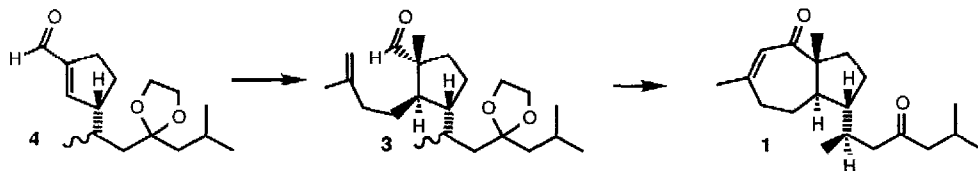
The generality of light initiated halogenative decarboxylation of thiohydroxamic esters was studied.



Tetrahedron Lett. 30, 2465 (1989)

SYNTHESIS OF (-)-REISWIGIN A. ASSIGNMENT OF ABSOLUTE AND RELATIVE CONFIGURATION.

Barry B. Snider* and Yang Ke
Department of Chemistry, Brandeis University, Waltham, MA 02254-9110

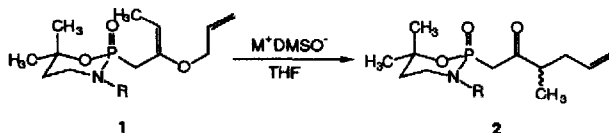


Tetrahedron Lett. 30, 2469 (1989)

CARBANION-ACCELERATED CLAISEN REARRANGEMENTS 5. STUDIES ON STEREOCONTROL WITH PHOSPHORUS-STABILIZED ANIONS

Scott E. Denmark*, G. Rajendra† and John E. Marlin
Roger Adams Laboratory, Department of Chemistry, University of Illinois, Urbana, IL 61801

The diastereoselectivity of rearrangement was found to be strongly dependent on counterion and N-substituent R. Anion control elements are discussed.

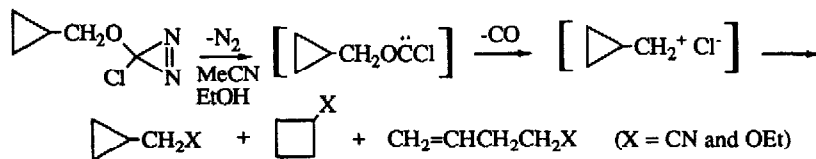


Tetrahedron Lett. 30, 2473 (1989)

FRAGMENTATION OF CYCLOPROPYLMETHOXYCHLOROCARBENE: FORMATION

OF CYCLOPROPYLCARBINYL/CHLORIDE ION PAIRS, R. A. Moss, G. J.

Ho, and B. K. Wilk, Department of Chemistry, Rutgers, The State University of New Jersey, New Brunswick, New Jersey 08903



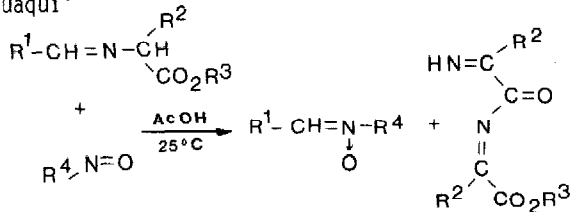
REACTIONS OF α -AMINOESTER IMINES WITH NITROSOBENZENE

Tetrahedron Lett. 30, 2477 (1989)

H. Rodríguez C.^{a*}, A. Márquez V. and C. A. Chuaqui^b

a: Depto. Química Orgánica, Fac. Ciencias Químicas y Farm. U. de Chile. Casilla 233. Santiago. Chile.

b: Radiation Application Research Branch, Atomic Energy of Canada Research Establishment. Pinawa, Manitoba. Canada, ROE 1L0.



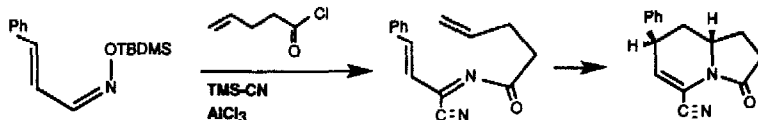
The Diels-Alder Reaction of 1-azadienes. The Effect of an α -Cyano Substituent

Tetrahedron Lett. 30, 2481 (1989)

Min Teng and Frank W. Fowler*

Department of Chemistry, State University of New York, Stony Brook NY 11794

N-Acyl- α -cyano-1-azadienes have been observed to be reactive and *anti* selective dienes in the intramolecular hetero Diels-Alder reaction.

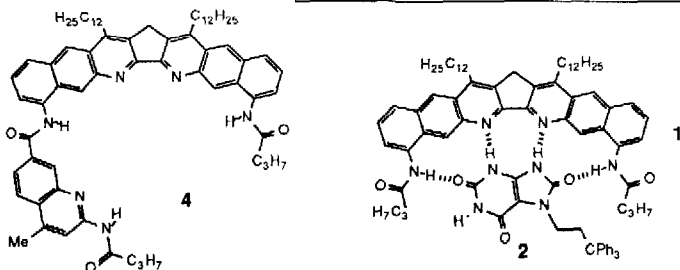


RECEPTORS FOR URIC ACIDS. 2.

A CAUTIONARY OBSERVATION.

T. Ross Kelly*, Mark T. Bilodeau, Gary J. Bridger and Chen Zhao
Department of Chemistry, Boston College,
Chestnut Hill, MA 02167 USA

Receptor 4 was designed to exceed the affinity of 1 for uric acid 2. The synthesis of 4 and its binding with 2 are described.



Tetrahedron Lett. 30, 2485 (1989)

THE FIRST EXAMPLE OF A LARIAT ETHER THAT FORMS A PSEUDO-SANDWICH COMPLEX

Tetrahedron Lett. 30, 2489 (1989)

Hyunsook Yoo, Hongming Zhang, Jerry L. Atwood,* and George W. Gokel* Departments of Chemistry, University of Alabama, University, AL 35486 and University of Miami, Coral Gables, FL 33124 U.S.A.

Abstract. The lariat ether based on aza-15-crown-5, having attached to nitrogen the five-oxygen sidearm $-\text{CH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_3$, forms a mono-potassium complex that appears to be more closely related to a bis(crown), sandwich complex than to a lariat ether but full involves all of the sidearm as well as macrocyclic oxygen donor atoms.

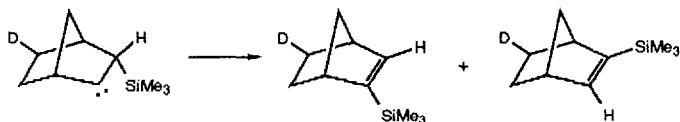
Tetrahedron Lett. 30, 2493 (1989)

β -SILYL CARBENES

Xavier Creary* and You-Xiong Wang

Department of Chemistry, University of Notre Dame, Notre Dame, Indiana 46556

The SiMe_3 group migrates readily to carbenic centers and also promotes migration of the exo-hydrogen to the carbenic center in β -trimethylsilyl substituted norbornyl carbenes.



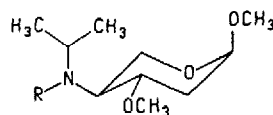
Tetrahedron Lett. 30, 2497 (1989)

STEREOCHEMICAL STUDIES ON ESPERAMICINS: DETERMINATION OF THE ABSOLUTE CONFIGURATION OF ISOPROPYLAMINO SUGAR MOIETY

J. Golik*, H. Wong, D.M. Vyas, T.W. Doyle

Bristol-Meyers Company, Pharmaceutical Research and Development Division, 5 Research Parkway, P.O. Box 5100 Wallingford, Connecticut 06492

The absolute configuration of 3 was determined as α -L-threo - pentapyranosyl by comparing CD spectra of 4 to those of two synthesised antipodal glycosides.



3: R=H

4: R=p-BrPhNHCO

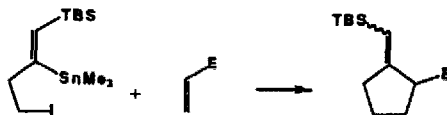
Tetrahedron Lett. 30, 2501 (1989)

A Strategy for Radical Annulation Based on Allyl and Vinyl Stannanes

Dennis P. Curran* and Paul A. van Elburg

Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260, USA

E-[(*t*-butyldimethylsilyl)methylene]cyclopentanes have been prepared by a new [3+2] radical annulation strategy starting from *Z*-1-*t*-butyldimethylsilyl-2-trimethylstannyl-4-iodo-1-butene and electron deficient alkenes.



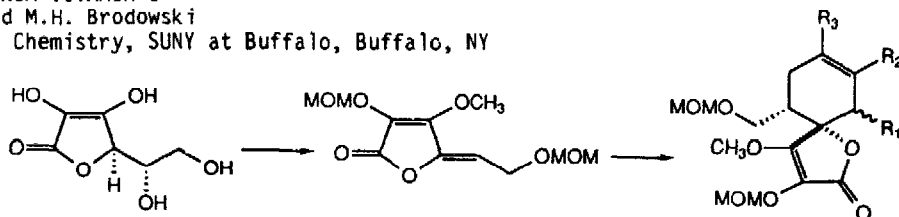
Tetrahedron Lett. 30, 2505 (1989)

CYCLOHEXYL SPIRO-FUSED HYDROXY TETRONIC ACID

DERIVATIVES FROM VITAMIN C

A.J. Poss* and M.H. Brodowski

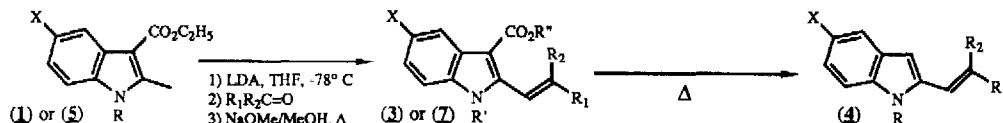
Department of Chemistry, SUNY at Buffalo, Buffalo, NY



A SIMPLE SYNTHESIS OF 2-VINYLINDOLES

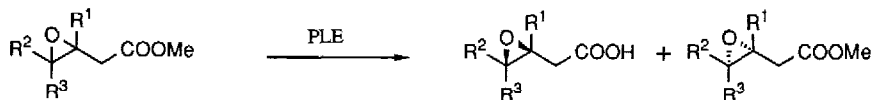
John E. Macor*, Michael E. Newman, and Kevin Ryan
Central Research Division, Pfizer Inc.
Groton, CT 06340

A two step synthesis of 2-vinyloindoles is described.

**KINETIC RESOLUTION OF RACEMIC β,γ-EPOXY ESTERS WITH PIG LIVER ESTERASE (PLE, E.C. 3.1.1.1.)**

Peter Mohr, Lukas Rösslein, Christoph Tamm*

Institut für Organische Chemie der Universität Basel, St.-Johanns-Ring 19, CH-4056 Basel



R¹, R³ = H, Me

R² = H, Me, CH₂COOMe

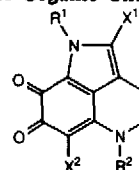
E-values and absolute configurations were determined.

BATZELLINES A, B, AND C. NOVEL PYRROQUINOLINE ALKALOIDS FROM THE SPONGE *Batzella* Sp.

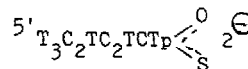
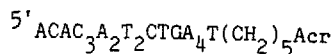
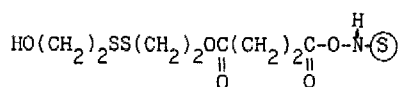
Shinichi Sakemi and Hao H. Sun, Harbor Branch Oceanographic Institution, Inc., 5600 Old Dixie Highway, Fort Pierce, Florida 34946, USA, Charles W. Jefford and Gérald Bernardinelli, Department of Organic Chemistry and Laboratory of Crystallography, University of Geneva, 1211 Geneva 4, Switzerland

The structure of batzelline A (1) was determined by X-ray and those of B and C deduced by comparison of their spectral data with that of 1.

	R ¹	R ²	X ¹	X ²
A (1)	Me	H	SMe	Cl
B	H	H	SMe	Cl
C	Me	H	H	Cl

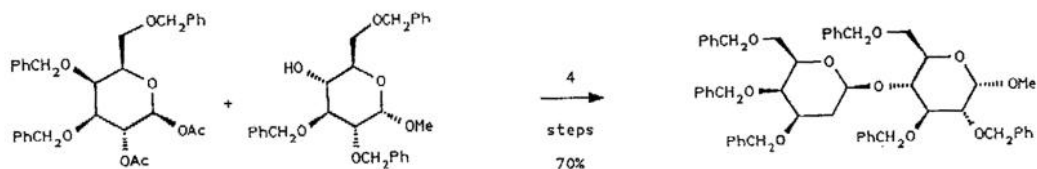


U. Asseline and Nguyen T. Thuong
Centre de Biophysique Moléculaire, C.N.R.S.
1A, Avenue de la Recherche Scientifique
45071 - ORLEANS Cedex 2, France



AN EASY SYNTHESIS OF 2'-DEOXY- β -DISACCHARIDES
 Michel Trumtel, Alain Veyrières and Pierre Sinay*
Ecole Normale Supérieure, Laboratoire de Chimie,
UA 1110, 24 rue Lhomond, 75231 PARIS CEDEX 05 - FRANCE.

Tetrahedron Lett. 30, 2529 (1989)

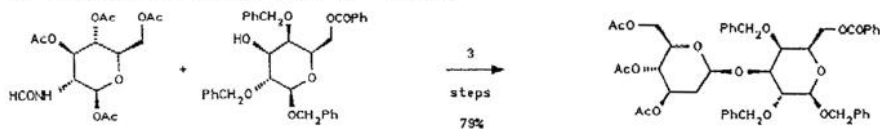


A fully stereoselective synthesis of various 2'-deoxy- β -disaccharides using 1,2-trans-di-O-acetyl monosaccharides as glycosyl donors is described.

GLYCOSYLATIONS WITH N-FORMYLAMINO SUGARS : A NEW APPROACH TO
 2'-DEOXY- β -DISACCHARIDES.

Tetrahedron Lett. 30, 2533 (1989)

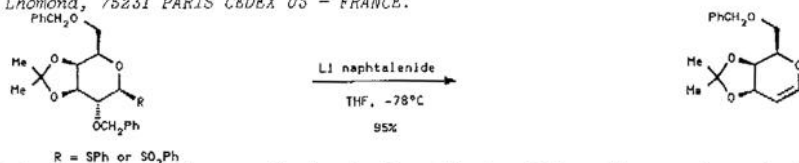
Paolo Tavecchia, Michel Trumtel, Alain Veyrières and Pierre Sinay*.
Ecole Normale Supérieure, Laboratoire de Chimie, UA 1110,
24, rue Lhomond, 75231 PARIS CEDEX 05 - FRANCE.



Glycosylation of various alcohols with derivatives of N-formylglucosamine, followed by dehydration of the formamido group and radical reduction, leads to 2'-deoxy- β -disaccharides in a fully stereoselective manner.

CONVENIENT SYNTHESIS OF SUBSTITUTED PYRANOID GLYCALLS FROM
 THIOPHENYL GLYCOSIDES AND GLYCOSYL PHENYLSULFONES.
 Alfonso Fernandez-Mayoralas, Alberto Marra, Michel Trumtel,
 Alain Veyrières and Pierre Sinay*.
Ecole Normale Supérieure, Laboratoire de Chimie, UA 1110,
24 rue Lhomond, 75231 PARIS CEDEX 05 - FRANCE.

Tetrahedron Lett. 30, 2537 (1989)



R = SPh or SO₂Ph

An efficient synthesis of pyranoid glycalls from thiophenylglycosides or glycosyl phenylsulfones with acid or base labile protecting groups is described.

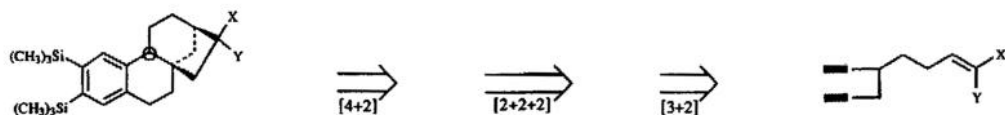
A STERESELECTIVE ACCESS TO THE BASIC SKELETON OF PHYLLOCLADANE
 TYPE DITERPENES: [3+2], [2+2+2], and [4+2] CYCLOADDITION

Tetrahedron Lett. 30, 2541 (1989)

Jean-Pierre GOTTELAND and Max MALACRIA*

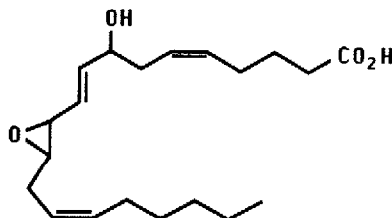
Laboratoire de Chimie Organique I, associé au CNRS, Université Claude Bernard,

ESCIL - 43 Bd du 11 Novembre 1918, 69622 VILLEURBANNE, France.



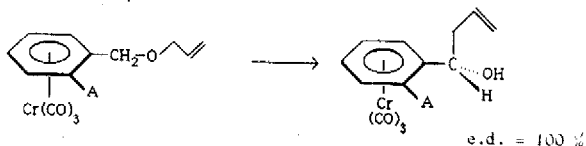
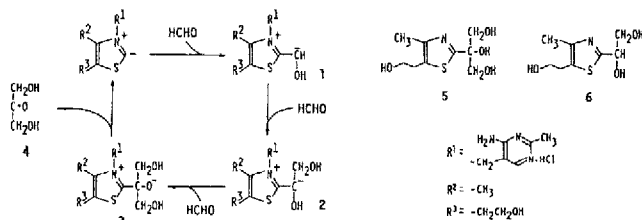
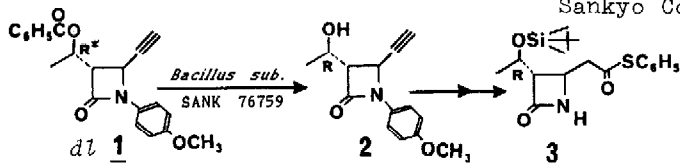
SYNTHESIS OF (±)-HEPOXILIN A₃ UTILIZING ARSONIUM YLIDESP. CHABERTA^a, C. MIOSKOWSKIA^{*}, J.R. FALCK^b^aUniversité Louis Pasteur, Laboratoire de Chimie Bio-organique associé au CNRS, Faculté de Pharmacie, 74, route du Rhin 67400 STRASBOURG Cédex FRANCE. ^bDepartments of molecular Genetics and Pharmacology, University of Texas Southwestern Medical Center, DALLAS, TEXAS 75235 USA.

An efficient synthesis of the title compound from 1-heptyne and δ-valerolactone was realized by a convergent strategy exploiting the unique properties of arsonium ylides.

**TRANSPOSITION-2,3 DE WITTIG DIASTÉROSPÉCIFIQUE EN SÉRIE ARÈNE CHROME TRICARBONYLE**J. BROCARD^{*}, M. MAHMOUDI, L. PELINSKI et L. MACIEJEWSKI

Laboratoire de Synthèse Organique, Université des Sciences et Techniques de Lille Flandres Artois - 59655 Villeneuve d'Ascq, France

The 2,3-Wittig rearrangement of ortho substituted benzyl chrome tricarbonyl allyl ethers has been shown to exhibit a remarkably high degree of (RR,SS) diastereoselection.

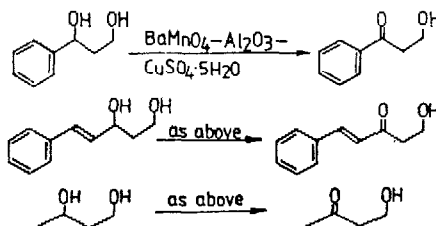
**ISOLATION OF AN INTERMEDIATE OF FORMOSE REACTION CATALYZED BY THIAMIN-HCl**Hiroyuki Saimoto, Kazuya Kotani, Yoshihiro Shigemasa, Makoto Suzuki,† Ken-ich Harada†
Department of Industrial Chemistry, Faculty of Engineering, Tottori University, Tottori 680, Japan
†Faculty of Pharmacy, Meijo University, Nagoya 468, Japan**ASYMMETRIC HYDROLYSIS OF dl 3-(1-BENZOYLOXY-ETHYL)-AZETIDINONE DERIVATIVE AND CHEMICAL CONVERSION TO CARBAPENEM**K.Hirai^{*}, S.Miyakoshi and A.Naito.New Lead Res.^{*} and Fermentation Res.Lab. Sankyo Co., Ltd., Shinagawa-ku, Tokyo 140*dl*-Benzoate (*dl*-1) was hydrolysed into R-alcohol 2 by *Bacillus subtilis* which was further transformed chemically into 3 and carbapenem.

SELECTIVE OXIDATION OF ALCOHOLS BY MANGANATES

Kwan Soo Kim*, Sangjae Chung, In Haeng Cho, and
Chi Sun Hahn
Department of Chemistry, Yonsei University, Seoul
120-749, Korea

Selective oxidation of alcohols was possible with
 K_2MnO_4 under phase-transfer catalysis conditions,
 $BaMnO_4-Al_2O_3-CuSO_4 \cdot 5H_2O$, or $K_2MnO_4-Al_2O_3-CuSO_4 \cdot 5H_2O$.
Especially, $BaMnO_4-Al_2O_3-CuSO_4 \cdot 5H_2O$ showed remarkable
selectivities.

Tetrahedron Lett. 30, 2559 (1989)

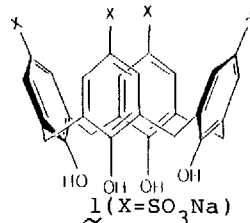


"TEMPLATE EFFECTS" ON CALIXARENE CONFORMATIONS
THROUGH HOST-GUEST-TYPE INTERACTIONS

Takashi Arimura, Michio Kubota, Koji Araki,
Seiji Shinkai, and Tsutomu Matsuda
Department of Organic Synthesis, Faculty of
Engineering, Kyushu University, Fukuoka 812, Japan

The conformational change in p-sulfonatocalix[4]arene
(1) in water is subject to the "guest template effect"
of cations, especially to that of organic ammonium
cations.

Tetrahedron Lett. 30 2563 (1989)

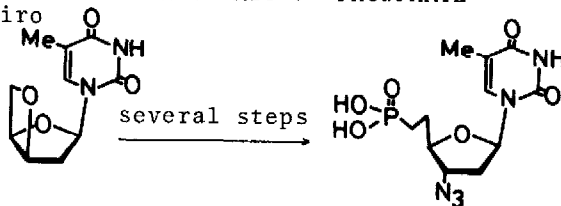


CLEAVAGE OF A NUCLEOSIDIC OXETANE WITH CARB-
ANIONS: SYNTHESIS OF A HIGHLY PROMISING CANDI-
DATE FOR ANTI-HIV AGENTS—A PHOSPHONATE ISOSTERE OF AZT 5'-PHOSPHATE

Hirofumi Tanaka, Mariko Fukui, Kazuhiro
Haraguchi, Mariko Masaki, and Tadashi
Miyasaka* School of Pharmaceutical
Sciences, Showa University, Hatano-
dai 1-5-8, Shinagawa-ku, Tokyo 142

A phosphonate analogue of AZT 5'-
phosphate was synthesized from an
oxetane nucleoside.

Tetrahedron Lett. 30, 2567 (1989)



HYDROGEN-BONDING. PART 6. A THERMODYNAMICALLY-BASED
SCALE OF SOLUTE HYDROGEN-BOND BASICITY

Michael H. Abraham, Priscilla L. Grellier and David V. Prior, Department of Chemistry,
University of Surrey, Guildford, GU2 5XH.
Jeffrey J. Morris and Peter J. Taylor, ICI Pharmaceuticals Division, Mereside Alderley Park,
Macclesfield, SK10 4TG.
Christian Laurence and Michel Berthelot, Laboratoire de Spectrochimie Moleculaire, Faculte
des Sciences et Techniques, 2 Rue de la Houssiniere, 44072 Nantes, France.

A thermodynamically-based scale of solute hydrogen-bond basicity, $\log K_B^H$, has been set up,
using $\log K$ values in the complexation of solutes against reference acids in tetrachloro-
methane. Values of $\log K_B^H$ have been obtained for over 500 solutes.

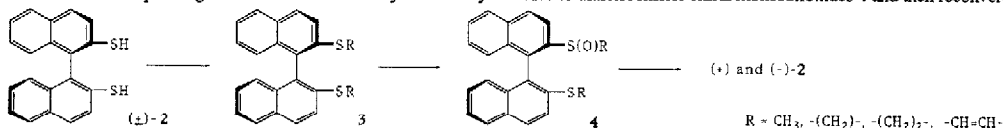
Tetrahedron Lett. 30, 2571 (1989)

OPTICAL RESOLUTION OF [1,1'-BINAPHTHALENE]-2,2'-DITHIOL

Fulvio Di Furia,^a Giulia Licini,^a Giorgio Modena^a and Ottorino De Lucchi^b

^aCentro di Studio sui Meccanismi di Reazioni Organiche del CNR, Dipartimento di Chimica Organica dell'Università, via Marzolo 1, I-35131 Padova, Italy. ^bDipartimento di Chimica dell'Università, via Vienna 2, I-07100 Sassari, Italy

Almost optically pure (e.e. > 98%) [1,1'-binaphthalene]-2,2'-dithiol (**2**) is obtained by resolution of racemic **2** via the transformation of the sulfidryl functions into the corresponding thioethers **3** which are asymmetrically oxidized to diastereomeric chiral monosulfoxides **4** and then reconverted into **2**



Tetrahedron Lett. **30**, 2575 (1989)

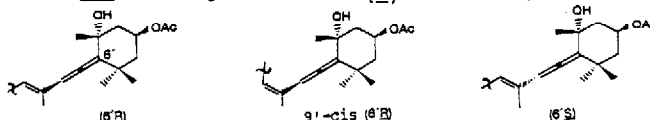
CLAIMED 6R/6S ALLENE ISOMERIZATION IN CAROTENOIDS IS GEOMETRICAL 9-TRANS/9-CIS ISOMERIZATION

Terje Bjørnland,^a Gerhard Englert,^b Kurt Bernhard^c and Synnøve Liaaen-Jensen^a

^aOrganic Chemistry Laboratories, University of Trondheim-NTH, N-7034 Trondheim, Norway

^bCentral Research Units and ^cDept. Vitamin and Nutritional Research, Hoffmann-La Roche, Basel

Detailed ¹H NMR have demonstrated that the presumed (S) allene isomers of carotenoids are geometrical isomers with the cis bond adjacent to the (R) allenic bond.



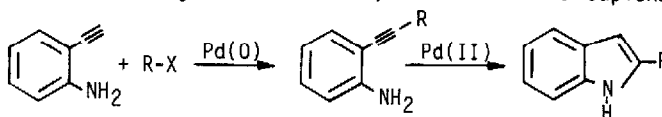
Tetrahedron Lett. **30**, 2577 (1989)

PALLADIUM-CATALYSED COUPLING OF ARYL AND VINYL TRIFLATES OR HALIDES WITH 2-ETHYNYLANILINE: AN EFFICIENT ROUTE TO FUNCTIONALIZED 2-SUBSTITUTED INDOLES

A. Arcadi^a, S. Cacchi^{b*}, F. Marinelli^a

a) Dpt. di Chim., Ing. Chim. e Materiali, Via Assergi 4, 67100 L'Aquila (Italy). b) Dpt. di Studi di Chim. e Tecnologia delle Sostanze Biologicamente Attive, Università "La Sapienza", P.le A. Moro 5, 00185 Roma (Italy)

R = vinyl, aryl, heteroaryl
X = OTf, I, Br



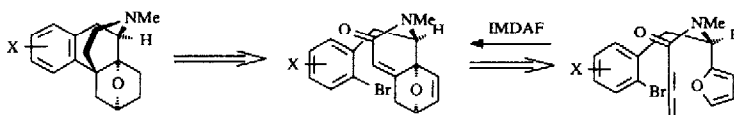
Tetrahedron Lett. **30**, 2581 (1989)

A CONCISE APPROACH TO THE MORPHINAN SKELETON USING A TANDEM INTRAMOLECULAR FURAN DIELS-ALDER / RADICAL CYCLISATION STRATEGY

Harry Finch,^{*a} Laurence M. Harwood,^{*b} Graeme M. Robertson,^a and Richard C. Sewell.^b

^a Glaxo Group Research Ltd., Park Road, WARE, SG12 0DJ. ^b Dyson Perrins Laboratory, University of Oxford, South Parks Road, OXFORD OX1 3QY.

A sequence involving an intramolecular Diels-Alder reaction of a furan diene possessing an allenic amide dienophilic moiety, followed by radical induced annelation of the resultant cycloadduct, permits access to material possessing a functionalised morphinan skeleton.



Tetrahedron Lett. **30**, 2585 (1989)

**FACILE CYCLOADDITION OF 2-PHENYLSULFONYL
1,3-DIENES TO INDOLES**

Jan-E. Bäckvall,* Niklas A. Plobeck and Seppo K. Juntunen
 Department of Organic Chemistry, University of Uppsala,
 Box 531, S-751 21 Uppsala, Sweden

Cycloaddition of 2-phenylsulfonyl
 1,3-dienes to 1-indolylmagnesium
 iodide afforded, after workup,
 tetrahydrocarbazole systems.

