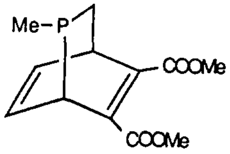
GRAPHICAL ABSTRACTS

Tetrahedron Lett. 28, 5783 (1987)

THERMOLYSIS OF 2-PHOSPHABICYCLO[2.2.2]OCTA-5,7-DIENES: GENERATION AND TRAPPING OF P-METHYL- AND P-PHENYLPHOSPHAETHENE

L. D. Quin,* A. N. Hughes, and B. Pete
Department of Chemistry, University of Massachusetts,
Amherst, Massachusetts 01003, U. S. A.

The phosphaethenes $RP{=}CH_2$ (R = Me or Ph) were generated by thermolysis of 1 and 2 and trapped with 1,3-dienes.



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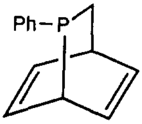


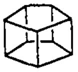
2

Tetrahedron Lett. 28, 5787 (1987)

THE STRUCTURES AND ENERGIES OF PENTAPRISMANE AND HEXAPRISMANE - AN AB INITIO STUDY

William P. Dailey
Department of Chemistry, University of Pennsylvania,
Philadelphia, PA 19104-6323

The structures of 1 and 2 were calculated using the 6-31G* basis set and their enthalpies of formation are predicted.



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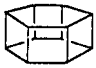
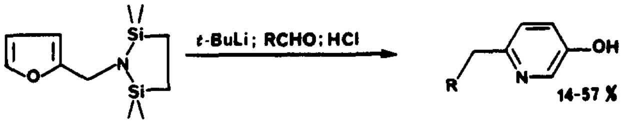


2

Tetrahedron Lett. 28, 5791 (1987)

CONVENIENT SYNTHESES OF 6-ARYLMETHYL- AND 6-(1-E-PROPENYL)-3-PYRIDINOLS

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



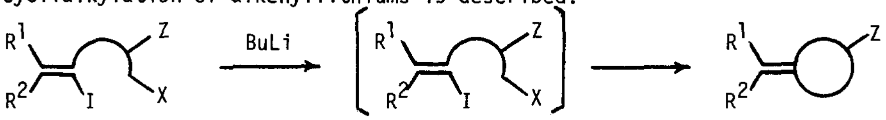
The conversion of 1-(2-furylmethyl)-2,2,5,5-tetramethyl-1-aza-2,5-disilacyclopentane to 6-substituted 3-pyridinols is described.

Tetrahedron Lett. 28, 5793 (1987)

HIGHLY STEREOSELECTIVE SYNTHESIS OF EXOCYCLIC ALKENES VIA CYCLIALKYLATION

Ei-ichi Negishi,* Yantao Zhang, and Vahid Bagheri
Department of Chemistry, Purdue University, W. Lafayette, Indiana 47907, USA

A strictly regio- and stereo-controlled method for the synthesis of exocyclic olefins involving cyclialkylation of alkenyllithiums is described.

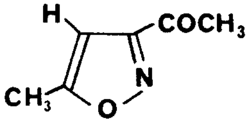


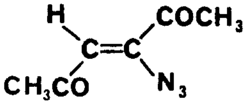
Tetrahedron Lett. 28,5797(1987)

SOME NOVEL ISOXAZOLE PHOTOCHEMISTRY: A COMPARISON WITH VINYL AZIDE CHEMISTRY

Ronald R. Sauers* and Susan D. Van Arnum
Department of Chemistry, Rutgers, The State University of New Jersey
New Brunswick, New Jersey 08903

Irradiations of the isoxazole and vinyl azide shown lead to different products. The results are interpreted in terms of singlet and triplet vinyl nitrenes.





Tetrahedron Lett. 28,5801(1987)

3-FLUORO-3-TRIFLUOROMETHYLDIAZIRINE

William P. Dailey
Department of Chemistry, University of Pennsylvania,
Philadelphia, PA 19104-6323

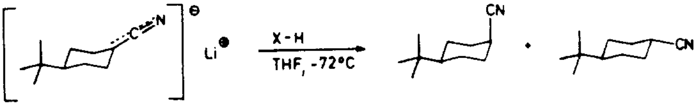
Reaction of 3-bromo-3-trifluoromethyldiazirine with TBAF produces a 60% yield of 3-fluoro-3-trifluoromethyldiazirine.

Tetrahedron Lett. 28,5805(1987)

DIASTEREOSELEKTIVE PROTONIERUNG VON CARBANIONEN

Uwe Gerlach und Siegfried Hünig - Institut für Organische Chemie der Universität
D-8700 Würzburg, Am Hubland

Die Diastereoselektivität der Protonierung von 3-Li zu cis-3 und trans-3 ließ sich allein durch Variation der Protonenquelle von 41:59 auf 85:15 verschieben.



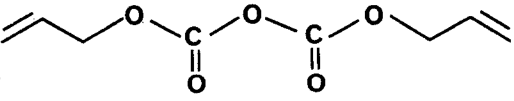
3-Li cis-3 trans-3

Tetrahedron Lett. 28,5809(1987)

DIALLYL DICARBONATE. A CONVENIENT REAGENT FOR THE SYNTHESIS OF ALLYL CARBAMATES.

Gérard Sennyey, Gérard Barcelo
and Jean-Pierre Senet
SNPE, Centre de Recherche du Bouchet
91710-Vert-le-Petit, France.

Diallyldicarbonate was prepared and used for the amino protection of various compounds including amino acids, amino sugars and nucleosides.

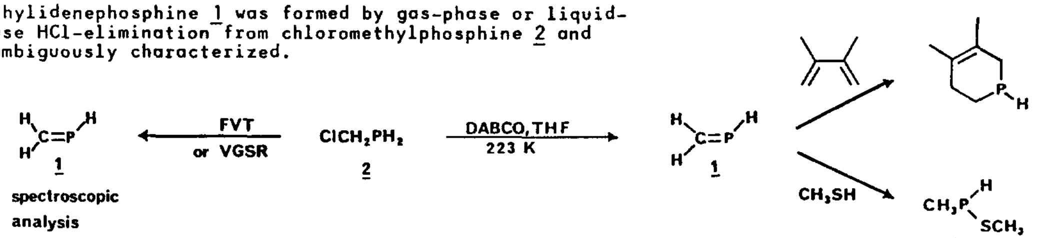


Tetrahedron Lett. 28, 5811 (1987)

METHYLIDENEPHOSPHINE

Bruno PELLERIN, Pierre GUENOT, Jean-Marc DENIS*
Groupe de Recherches de Physicochimie Structurale, UA 704, Université de Rennes 1,
Centre Régional de Mesures Physiques de l'Ouest, Campus de Beaulieu 35042 RENNES Cedex, France

Methylidenephosphine 1 was formed by gas-phase or liquid-phase HCl-elimination from chloromethylphosphine 2 and unambiguously characterized.

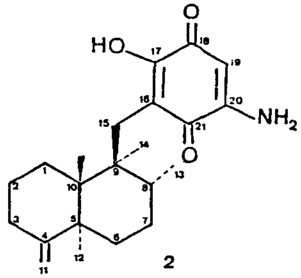


Tetrahedron Lett. 28, 5815 (1987)

SMENOSPONGINE: A CYTOTOXIC AND ANTIMICROBIAL AMINOQUINONE ISOLATED FROM SMENOSPONGIA SP.

M.-L.Kondracki and M.Guyot
Laboratoire de Chimie, M.N.H.N., 63 rue Buffon, 75005-Paris.

The structure 2 proposed for smenospongine, a cytotoxic aminoquinone, isolated from *Smenospongia* sp. was inferred from an analysis of its MS, ^{1}H- and ^{13}C-NMR data.

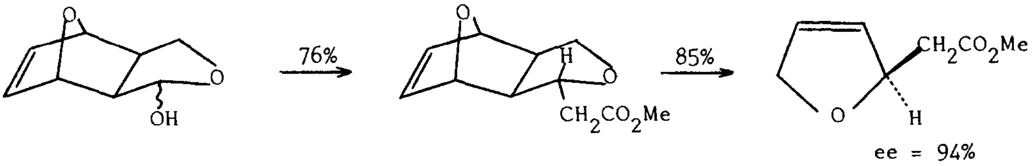


2

Tetrahedron Lett. 28, 5819 (1987)

STEREOSELECTIVE INTRAMOLECULAR MICHAEL ADDITION INDUCED BY A THERMOLABILE GROUP : SYNTHESIS OF OPTICALLY ACTIVE FIVE-MEMBERED OXYGEN CONTAINING RINGS.

R. Bloch* and M. Seck
Laboratoire des Carbocycles (Associé au CNRS), Institut de Chimie Moléculaire d'Orsay
Université de Paris-Sud, Bâtiment 420, 91405 ORSAY (France)



Tetrahedron Lett. 28, 5821 (1987)

ELECTROCHEMICAL REGENERATION OF TRIPHENYLPHOSPHINE

Jean-Luc LECAT et Marguerite DEVAUD*

$$Ph_3PO \xrightarrow{P_4S_{10}} Ph_3PS \xrightarrow{Me_2SO_4} [Ph_3\overset{+}{P}\text{-SMe}][MeSO_4^{-}]$$

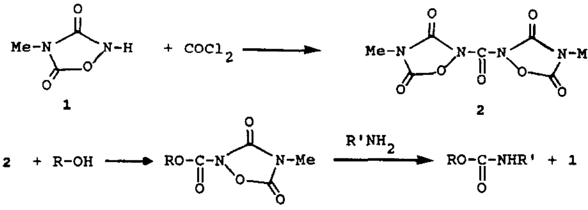
$$[Ph_3\overset{+}{P}\text{-SMe}] + 2e \longrightarrow Ph_3P + MeS^{-}$$

MeOH + 0,1 mol.l^{-1} of LiCl - mercury cathode - 40 A/m^2 - Rdt = 86 %

Tetrahedron Lett.28,5823(1987)

2,2'-CARBONYL-BIS(3,5-DIOXO-4-METHYL-1,2,4-OXADIAZOLIDINE) : I-A NEW REAGENT FOR THE PREPARATION OF CARBAMATES AND AMIDES. APPLICATION TO THE SYNTHESIS OF DIPEPTIDES.

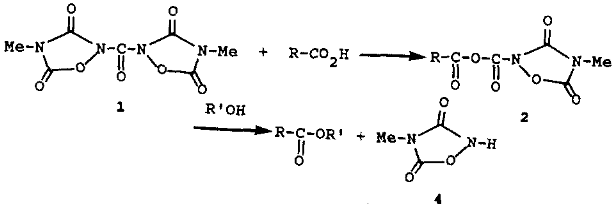
Michel Denarié, Denis Grenouillat,
Thierry Malfroot, Jean-Pierre Senet,
Gérard Sennyey* and Patrick Wolf.
SNPE, Centre deRecherches du Bouchet
91710-Vert-le Petit, France.



Tetrahedron Lett.28,5827(1987)

2,2'-CARBONYL-BIS(3,5-DIOXO-4-METHYL-1,2,4-OXADIAZOLIDINE) : II-REAGENT FOR THE DIRECT ESTERIFICATION OF CARBOXYLIC ACIDS.

Denis Grenouillat, Jean-Pierre Senet
and Gérard Sennyey*
Centre de Recherches du Bouchet
91710-Vert-le-Petit, France.

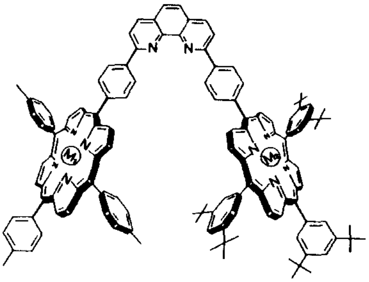


Tetrahedron Lett.28,5829(1987)

SYNTHESIS OF AN OBLIQUE BIS-PORPHYRIN SYSTEM CONTAINING A 1,10-PHENANTHROLINE SPACER

S.Noblat, C.O.Dietrich-Buchecker, J.-P.Sauvage

Laboratoire de Chimie Organo-Minérale, UA 422,
Institut de Chimie, F-67000 Strasbourg, France



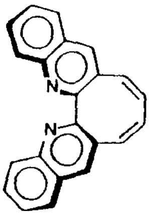
1: M_1=M_2=2H
2: M_1=Zn,M_2=H
3: M_1=M_2=Zn

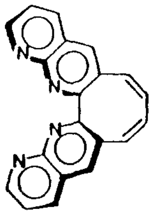
Tetrahedron Lett.28,5833(1987)

SYNTHESIS OF CYCLOOCTA[2,1-*b*:3,4-*b*']DIQUINOLINE AND CYCLOOCTA[2,1-*b*:3,4-*b*']DI[1,8]NAPHTHYRIDINE, AND X-RAY CRYSTAL STRUCTURES OF CYCLOOCTA[2,1-*b*:3,4-*b*']DIQUINOLINE AND ITS 2:1 COMPLEX WITH COPPER(I) PERCHLORATE

Xiu Chun Wang, Henry N.C. Wong* and Thomas C.W. Mak*
Department of Chemistry, The Chinese University of Hong Kong,
Shatin, New Territories, Hong Kong.

Compounds containing a diquinoline or 1,8-dinaphthyridine nucleus fused to cyclooctatetraene have been synthesized. X-ray structures of cycloocta[2,1-*b*:3,4-*b*']diquinoline and its 2:1 complex with copper(I) perchlorate are reported.



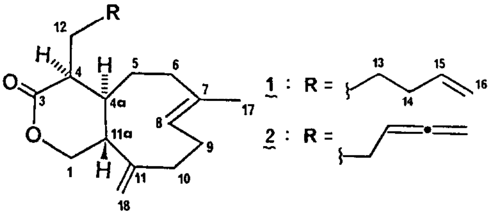


Tetrahedron Lett. 28,5837(1987)

ACALYCIXENIOLIDES, NOVEL NORDITERPENES WHICH INHIBIT CELL DIVISION OF FERTILIZED STARFISH EGGS, FROM THE GORGONIAN ACALYCIGORGIA INERMIS

N. Fusetani,* M. Asano, S. Matsunaga, and K. Hashimoto,
Laboratory of Marine Biochemistry, Faculty of Agriculture,
The University of Tokyo, Bunkyo-ku , Tokyo, Japan

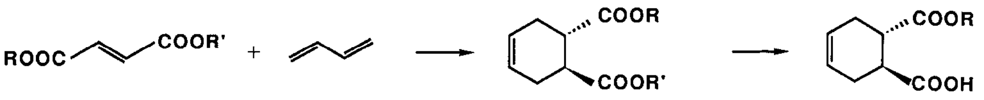
The structures of acalycixeniolide A and B (1 and 2) were determined mainly by spectroscopic analyses.



Tetrahedron Lett. 28,5841(1987)

ASYMMETRIC DIELS-ALDER REACTION. A FACILE ROUTE TO CHIRAL ALKYL HYDROGEN CYCLOHEXENE-1,2-DICARBOXYLATE

Kyoji Furuta, Shigeo Hayashi, Yoshikazu Miwa, Hisashi Yamamoto*
Department of Applied Chemistry, Nagoya University, Chikusa, Nagoya 464, Japan

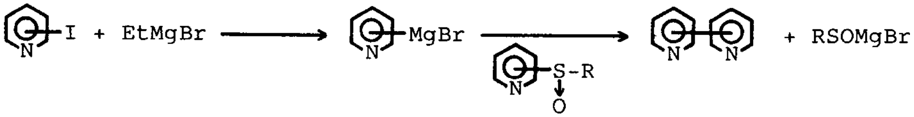


Synthesis of optically active alkyl hydrogen cyclohexene-1,2-dicarboxylate derivatives.

Tetrahedron Lett. 28,5845(1987)

PREPARATION OF PYRIDYL GRIGNARD REAGENTS AND CROSS COUPLING REACTIONS WITH SULFOXIDES BEARING AZAHETEROCYCLES

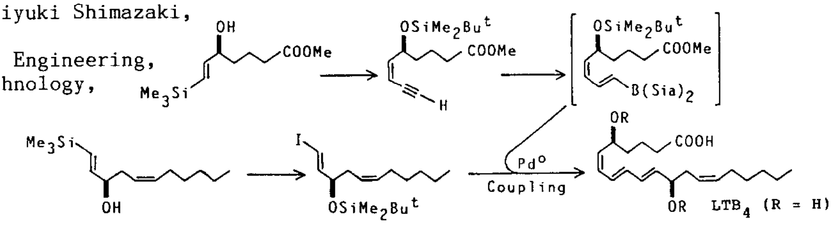
Naomichi Furukawa,* Tadao Shibutani, and Hisashi Fujihara
Department of Chemistry, The University of Tsukuba
Sakura-mura, Niihari-gun, Ibaraki 305, Japan



Tetrahedron Lett. 28,5849(1987)

HIGHLY STEREOCONTROLLED, MULTIGRAM SCALE SYNTHESIS OF LEUKOTRIENE B_4

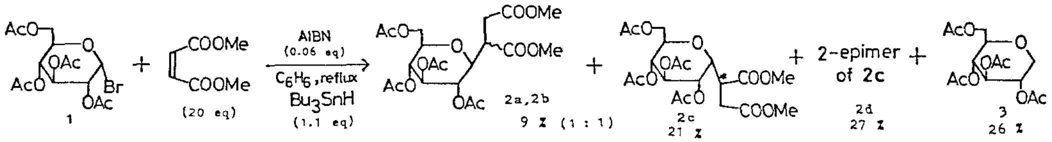
Yuichi Kobayashi, Toshiyuki Shimazaki,
and Fumie Sato*
Department of Chemical Engineering,
Tokyo Institute of Technology,
Meguro, Tokyo 152
Japan



Tetrahedron Lett.28,5853(1987

SYNTHESIS OF C-GLYCOSYL COMPOUNDS BY THE ADDITION OF GLYCOSYL RADICALS TO OLEFINS

Younosuke Araki*, Tadatoshi Endo, Masaki Tanji, Jun'ichi Nagasawa and Yoshiharu Ishido
Department of Chemistry, Faculty of Science, Tokyo Institute of Technology, O-okayama,
Meguro-ku, Tokyo 152, JAPAN



Tetrahedron Lett.28,5857(1987

A FACILE PREPARATION OF 1-PERFLUOROALKYLALKENES AND ALKYNES. PALLADIUM CATALYZED REACTION OF PERFLUOROALKYL IODIDES WITH ORGANOTIN COMPOUNDS

Seijiro MATSUBARA*, Makoto MITANI, and Kiitiro UTIMOTO
Department of Industrial Chemistry, Faculty of Engineering,
Kyoto University, Yoshida, Sakyo, Kyoto, 606 Japan

$$\mathrm{R{-}SnR'_3 + R_fI \xrightarrow[\mathrm{Pd(0)}]{} R{-}R_f}$$

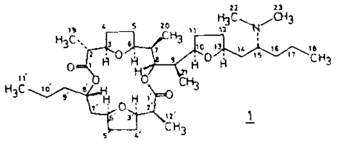
R: Alkenyl, Allyl, Alkynyl
R': Me, Bu
R_f: n-C_4F_9, n-C_6F_{13}, CF_3, CF_3CH_2

Tetrahedron Lett.28,5861(1987

STRUCTURE OF PAMAMYCIN-607, AN AERIAL MYCELIUM-INDUCING SUBSTANCE OF *STREPTOMYCES ALBONIGER*

Satoru Kondo[a], Kazuhisa Yasui[a], Masato Katayama[a], Shingo Marumo*[a], Tadao Kondo[b] and Hiroyuki Hattori[c], a) Department of Agricultural Chemistry, Nagoya University, Nagoya 464, Japan, b) Chemical Instrument Center, Nagoya University, Nagoya 464, Japan, c) National Institute for Basic Biology, Okazaki 444, Japan

Structure of Pamamycin-607 with the relative stereochemistry has been determined as (1) on the basis of spectral analysis.



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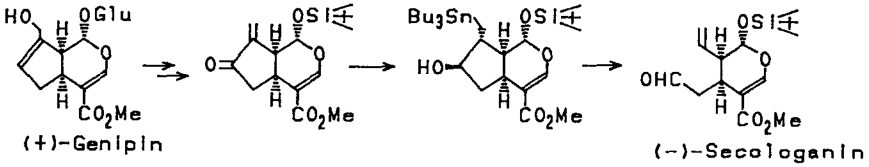
Tetrahedron Lett.28,5865(1987

NOVEL SYNTHESIS OF (-)-SECOLOGANIN AGLUCON-O-SILYL ETHER FROM (+)-GENIPIN VIA OXIDATIVE FRAGMENTATION OF γ-HYDROXYALKYLSTANNANE

S.Isoe*, S.Katsumura, T.Okada, K.Yamamoto, T. Takemoto, H.Inaba, Q.Han, and K.Nakatani, Institute Of Organic Chemistry, Fuculty Of Science, Osaka City University, Sumiyoshi-ku, Osaka 558, Japan



(+)-Genipin

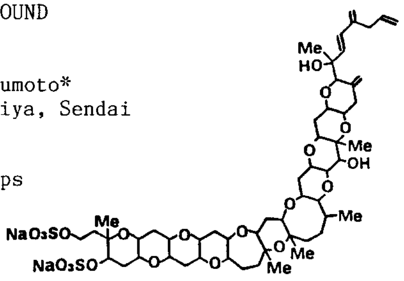
(−)-Secologanin

Tetrahedron Lett.28,5869(1987)

ISOLATION AND STRUCTURE OF YESSOTOXIN, A NOVEL POLYETHER COMPOUND IMPLICATED IN DIARRHETIC SHELLFISH POISONING

Michio Murata, Masanori Kumagai, Jong Soo Lee and Takeshi Yasumoto*
Faculty of Agriculture, Tohoku University, Tsutsumidori, Amamiya, Sendai
980, Japan

A novel poylether toxin, yessotoxin, was isolated from scallops implicated in diarrhetic shellfish poisoning, and its planar structure was proposed by means of modern NMR techniques, including COLOC, ROESY, PS NOESY and RELAY.

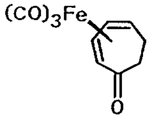


Tetrahedron Lett.28,5873(1987)

HPLC OPTICAL RESOLUTION OF TRICARBONYL(2,3-DIHYDROTROPONE)IRON AND ITS ABSOLUTE CONFIGURATION

H. Sotokawa,[a] A. Tajiri,*[b] N. Morita,*[c] C. Kabuto,[d] M. Hatano,[a] and T. Asao*[c]
a Chem. Res. Inst. of Non-aqueous Solutions, Tohoku Univ., Sendai 980 Japan
b Dept. of Chem., College of Gen. Education, Hirosaki Univ., Hirosaki 036 Japan
c Dept. of Chem., College of Gen. Education, Tohoku Univ., Sendai 980 Japan
d Dept. of Chem., Facuty of Science, Tohoku Univ., Sendai 980 Japan

First example of optical resolution and determination of the absolute configuration of the title $Fe(CO)_3$ complex (2), and the absolute configuration of (tropone)$Fe(CO)_3$ are reported.



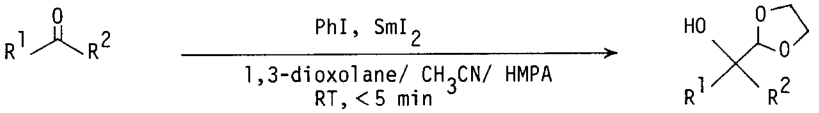
(+)-2

Tetrahedron Lett.28,5877(1987)

A NOVEL SmI_2-INDUCED MASKED-FORMYLATION OF CARBONYL COMPOUNDS

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

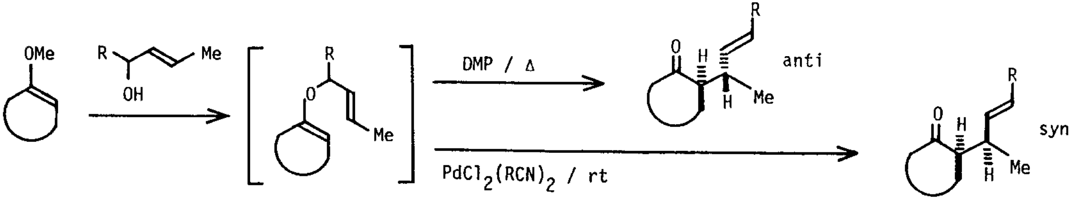
1,3-Dioxolane was used as a formaldehyde equivalent under extremely mild conditions.



Tetrahedron Lett.28,5879(1987)

DIASTEREOCONTROL VIA THE PHENOL- AND PALLADIUM(II)-CATALYZED CLAISEN REARRANGEMENT WITH CYCLIC ENOL ETHERS

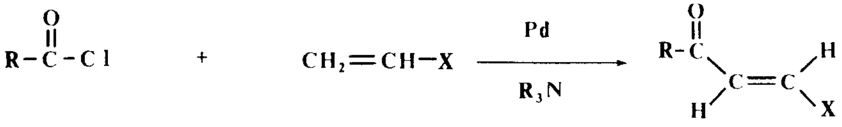
K. Mikami, K. Takahashi, T. Nakai, Tokyo Institute of Technology, Meguro-ku, Tokyo 152, Japan



Tetrahedron Lett. 28, 5883 (1987)

PALLADIUM-CATALYZED ACYLATION OF ACTIVATED ALKENES WITH BRIDGEHEAD ACID CHLORIDES

Kimihiko Hori, Masatomo Ando, Naotake Takaishi,* and Yoshiaki Inamoto
Tochigi Research Laboratories, Kao Corporation, 2606 Akabane, Ichikaimachi, Tochigi 321-34, Japan

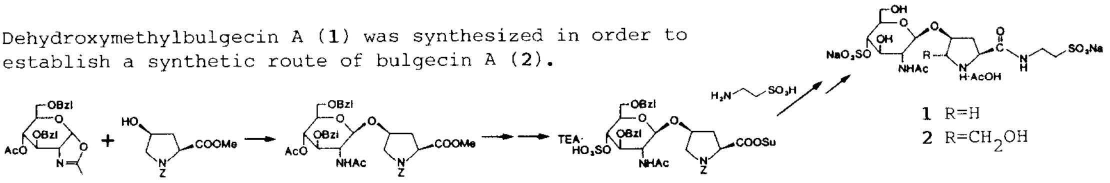


Tetrahedron Lett. 28, 5887 (1987)

SYHTHESIS OF DEHYDROXYMETHYLBULGECIN A

Tateaki Wakamiya, Keiko Yamanoi, Kayoko Kanou and Tetsuo Shiba
Faculty of Science, Osaka University, Toyonaka, Osaka 560, Japan

Dehydroxymethylbulgecin A (1) was synthesized in order to establish a synthetic route of bulgecin A (2).

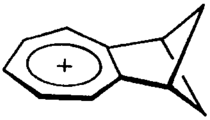


1 R=H
2 R=CH_2OH

Tetrahedron Lett. 28, 5889 (1987)

THE TROPYLIUM ION ANNELATED WITH BICYCLO[2.1.1]HEX-2-ENE: STABILIZATION DUE TO σ-π CONJUGATION VERSUS DESTABILIZATION DUE TO MILLS-NIXON TYPE π-BOND LOCALIZATION

Koichi Komatsu*, Hidekazu Akamatsu, and Kunio Okamoto*
Department of Hydrocarbon Chemistry, Faculty of Engineering,
Kyoto University, Sakyo-ku, Kyoto 606, Japan



1

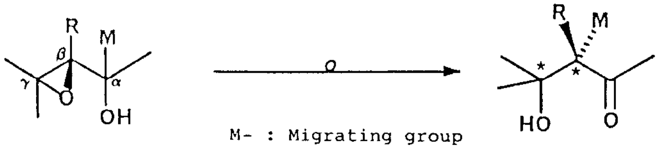
In the title cation **1** (pK_{R^+} 5.10, E_{redn} -0.710 V vs Ag/Ag^+), the σ-π conjugative stabilization is shown to be more effective than the destabilization due to π-bond localization.

Tetrahedron Lett. 28, 5891 (1987)

On the Use of Epoxy Alcohol-Aldol Rearrangement for Stereoselective Construction of Quarternary Carbon Centers

Masato Shimazaki, Hisaaki Hara, Keisuke Suzuki, and Gen-ichi Tsuchihashi
Dept. of Chemistry, Keio Univ., Hiyoshi, Yokohama 223, Japan

A new method for the construction of quarternary carbon centers is reported.



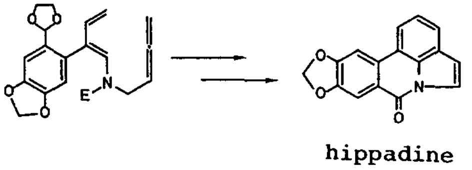
Tetrahedron Lett. 28, 5895 (1987)

A New Approach to Pyrrolophenanthridone Alkaloids via Allene Intramolecular Cycloaddition : Total Synthesis of Hippadine

K. Hayakawa, T. Yasukouchi, and K. Kanematsu*

Faculty of Pharmaceutical sciences,
Kyushu University, Fukuoka 812, Japan

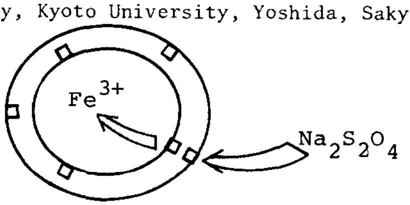
A new facile synthesis of hippadine via allene intramolecular cycloaddition strategy is described.



Tetrahedron Lett. 28, 5899 (1987)

CONTROL OF ELECTRON TRANSPORT BY THERMALLY INDUCED PHASE TRANSITION OF LIPOSOMAL MEMBRANE

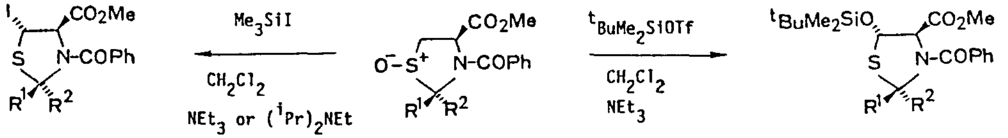
Iwao Tabushi, Itaru Hamachi, and Yoshiaki Kobuke*
Department of Synthetic Chemistry, Kyoto University, Yoshida, Sakyo-ku, Kyoto 606, Japan



Tetrahedron Lett. 28, 5903 (1987)

SILICON PUMMERER REACTION OF THIAZOLIDINE S-OXIDES; A NEW METHOD FOR STEREOSPECIFIC C-5 FUNCTIONALIZATION OF THIAZOLIDINES

Norihiro Tokitoh, Yoshiyuki Igarashi, and Wataru Ando*
Department of Chemistry, University of Tsukuba, Sakura-mura, Niihari-gun, Ibaraki 305, Japan

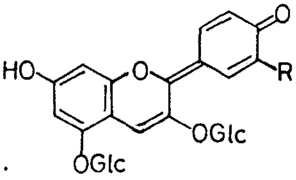


Tetrahedron Lett. 28, 5907 (1987)

CHIRAL STACKING OF CYANIN AND PELARGONIN --- SOLUBLE AND INSOLUBLE AGGREGATES AS DETERMINED BY MEANS OF CIRCULAR DICHROISM

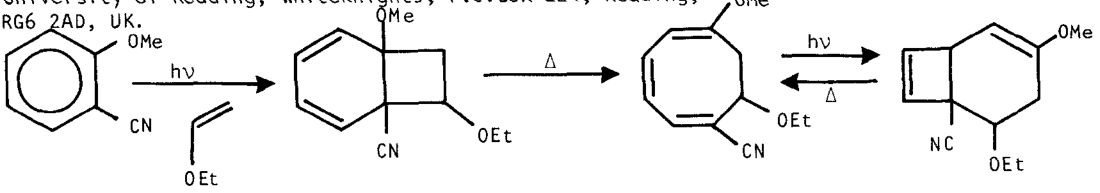
Toshio Goto*, Hirotoshi Tamura and Tadao Kondo*
Lab. of Organic Chem., Faculty of Agriculture, and *Chemical Instrument Center, Nagoya University, Chikusa, Nagoya 464, Japan

CD of anthocyanidin 3,5-diglucosides show a negative exciton-type Cotton curve in neutral aqueous solution. Pelargonin (R = H) and cyanin (R = OH) also give a suspension of insoluble particles of their anhydrobase that shows a positive and unsymm. exciton-type CD.



Tetrahedron Lett. 28,5909(1987)

Specific ortho Photocycloaddition of Enol Ethenes to 2-Substituted Anisoles: Facile Synthesis of Bicyclo [4.2.0]octa-2,7-dienes in Sunlight, by A.Gilbert and P.Heath, Chemistry Department, University of Reading, Whiteknights, P.O.Box 224, Reading, RG6 2AD, UK.

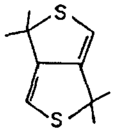


Tetrahedron Lett. 28,5913(1987)

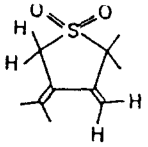
THE SYNTHESIS OF NEW 3,4-DIMETHYLENETHIOLANE DERIVATIVES

Samuel Braverman* and Meir Freund
Department of Chemistry, Bar-Ilan University
Ramat-Gan 52100, Israel

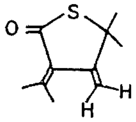
A convenient synthesis of the two new 3,4-dialkylidenethiolane derivatives 11 and 13, starting with the readily available condensed heterocycle 6 is described.



6



11



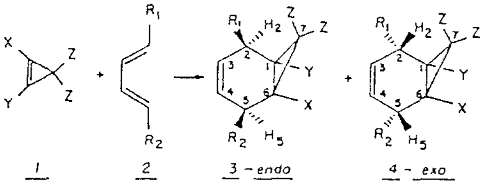
13

Tetrahedron Lett. 28,5917(1987)

The Stereochemistry of Diels-Alder Reactions of Cyclopropenes

Yitzhak Apeloig, Dorit Arad, Moshe Kapon, and Mercedes Wallerstein
Department of Chemistry, Technion-Israel Institute of Technology, Haifa 32000, Israel

The stereochemistry of the following reactions were determined unequivocally (X-ray, NOE): 1, X=Y=Z=Cl + 2, R_1=H, R_2=OCH_3, $OCOCH_3$, $OSiMe_3$, or + 2, R_1=R_2=Ph ⟶ 3-exo 1, X=Cl, Y=Br, Z=H + 2, R_1=H, R_2=OCH_3,$OSiMe_3$ ⟶ 3-endo:3-exo=9:1. 1, X=Y=Z=H + 2, R_1=OCH_3 ⟶ 3-endo; The reaction of 1, X=Y=Z=Cl + furan ⟶ exo-adduct.

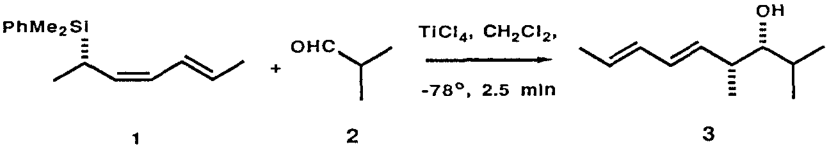


Tetrahedron Lett. 28,5921(1987)

THE STEREOCHEMISTRY OF AN S_E2'' REACTION OF A CHIRAL DIENYLMETHYLSILANE

Ian Fleming*, Nicholas D. Kindon, and Achintya K. Sarkar
(University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, England)

Summary—The optically active heptadienylsilane (1) reacts with isobutyraldehyde in a stereospecifically anti reaction to give predominantly (90:10) the enantiomer (3).

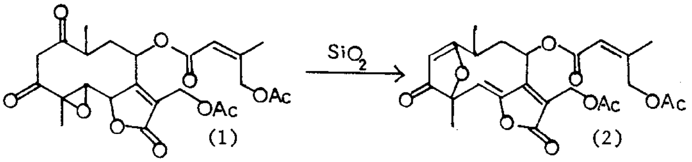


1 2 3

Tetrahedron Lett. 28, 5925 (1987)

A NOVEL SESQUITERPENE LACTONE FROM VERNONIA ERINACEA

L.E.Tully, M.S.Carson* and T.B.H.McMurry,
University Chemical Laboratory, Trinity College, Dublin 2, Ireland.



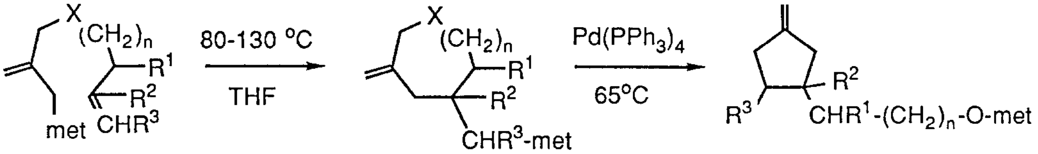
(1) (2)

V. erinacea (Wild), extracted with $CHCl_3$, yielded (1) which during workup was partially converted to (2). Hydrogenation of (1) yielded a mixture of products.

Tetrahedron Lett. 28, 5929 (1987)

OXYGEN AND NITROGEN HETEROCYCLES BY INTRAMOLECULAR MAGNESIUM- AND ZINC-ENE REACTIONS; METHYLENECYCLOPENTANES BY Pd(0)-CATALYZED ISOMERIZATION OF 5-(BROMOZINCMETHYL)-3-METHYLENEOXACYCLOALKANES

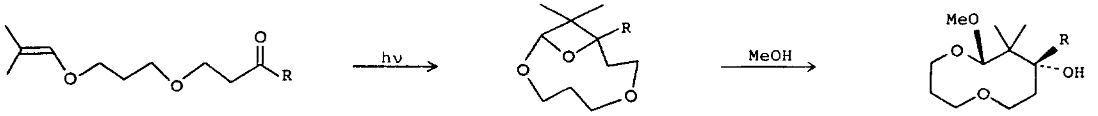
J. van der Louw, J.L. van der Baan, H. Stieltjes, F. Bickelhaupt and G.W. Klumpp
Scheikundig Laboratorium, Vrije Universiteit, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands



Tetrahedron Lett. 28, 5933 (1987)

THE PATERNÒ-BÜCHI REACTION AS A ROUTE TO MEDIUM-RING ETHERS AND ACETALS

Howard A.J. Carless*, John Beanland and Samson Mwesigye-Kibende
Department of Chemistry, Birkbeck College, Malet Street, London WC1E 7HX



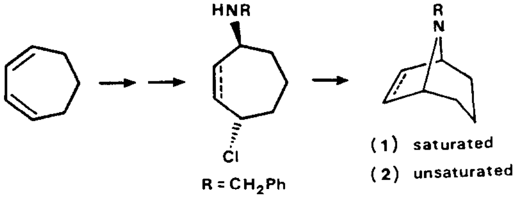
(3) (4) (5) a; R = Me
b; R = Et

Tetrahedron Lett. 28, 5937 (1987)

A SIMPLE APPROACH TO NORTROPANE AND NORTROP-6-ENE DERIVATIVES

Antoinette Bathgate and John R. Malpass*
Department of Chemistry, University of Leicester,
Leicester LE1 7RH, U.K.

Development of an intramolecular displacement strategy leads to N-benzyl-nortropane (1) and -6-ene (2) derivatives. Nortropane itself is obtained in 75% overall yield from cyclohepta-1,3-diene.



(1) saturated
(2) unsaturated

Tetrahedron Lett.28,5941(1987

NEW SYNTHETIC 'TRICKS'. $[Et_3NH][Sn(SPh)_3]$ AND Bu_2SnH_2, TWO USEFUL REAGENTS FOR THE REDUCTION OF AZIDES TO AMINES

Martí Bartra, Fèlix Urpí, and Jaume Vilarrasa
Departament de Química Orgànica, Universitat de Barcelona, 08028 Barcelona

$Sn(SPh)_3^-$ reduces azides (either primary, secondary, or tertiary; either aliphatic, aromatic, or heteroaromatic) very quickly. Bu_2SnH_2 is also useful in this connection. A scale of reducing power, with regard to aliphatic azides, has been established:

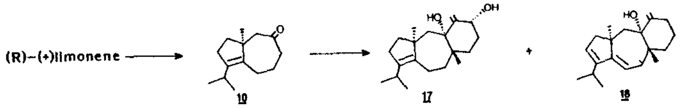
$$Sn(SPh)_3^- > Cr^{2+} \gg Bu_2SnH_2 > LiAlH_4 > Et_3P/H_2O \ggg H_2/Pd > S^{2-} \geq SnCl_2 > HS(CH_2)_3S^- > NaBH_4 > Ti^{3+}$$

Tetrahedron Lett.28,5945(1987

AN ENANTIOSELECTIVE APPROACH TO DOLASTANE DITERPENES. TOTAL SYNTHESIS OF MARINE NATURAL PRODUCTS (+)-ISOAMIJIOL AND (+)-DOLASTA-1(15),7,9-TRIEN-14-OL

Goverdhan Mehta* and Nacharaju Krishnamurthy
School of Chemistry, University of Hyderabad, Hyderabad 500 134, India

A general approach to dolastane diterpenes from (R)-(+)-limonene resulting in the total synthesis of the title compounds is described.

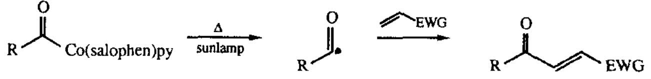


Tetrahedron Lett.28,5949(1987

ACYLCOBALT SALOPHEN REAGENTS. PRECURSORS TO ACYL RADICAL INTERMEDIATES FOR INTER- AND INTRAMOLECULAR OXIDATIVE MICHAEL ADDITION REACTIONS.

Donal J. Coveney, Vinod F. Patel and Gerald Pattenden*
Department of Chemistry, The University, Nottingham, NG7 2RD.

Acylcobalt salophens undergo homolytic cleavage (Δ, sunlamp) producing acyl radicals which then undergo oxidative additions to C → C double bonds leading to enones.



EWG - electron withdrawing group