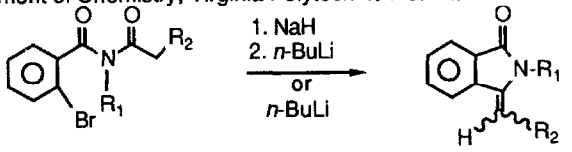
Tetrahedron Lett.30,275(1989)

AROMATIC HETEROANNULATION VIA *ORTHO* LITHIATION-CYCLIZATION OF N-ACYL-2-BROMOBENZAMIDES

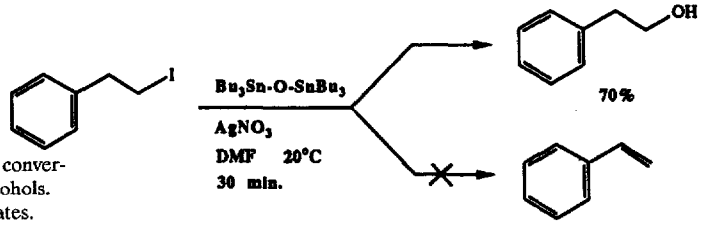
Mukta S. Hendi, Kenneth J. Natalie, Jr., Shivakumar B. Hendi, James A. Campbell, Thomas D. Greenwood, and James F. Wolfe*, Department of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061.



Tetrahedron Lett.30,279(1989)

Silver-Assisted Reactions of Organotin Oxides. A Mild, Neutral and Anhydrous One-Step Conversion of Primary Organic Halides to Alcohols.

Marc Gingras and T. H. Chan
Department of Chemistry, Mc Gill University, Montréal, Québec, Canada H3A 2K6



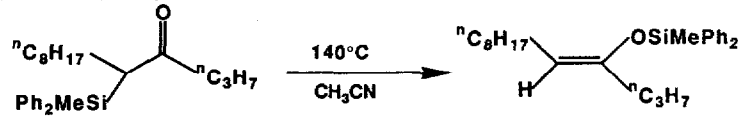
$(Bu_3Sn)_2O$ acts as a mild oxygen transfer agent in converting primary organic iodides and bromides into alcohols. This neutral method tolerate base-sensitive substrates.

Tetrahedron Lett.30,283(1989)

A REGIO- AND STEREOSELECTIVE SYNTHESIS OF ENOL METHYLDIPHENYLSILYL ETHERS[1]

Gerald L. Larson,[3a]* Reyes Berrios[3a] and Jose A. Prieto[3b] Department of Chemistry, University of Puerto Rico, Rio Piedras, P.R. 00931and Huels America, Inc. Petrarch Systems, Bartram Road, Bristol, PA 19007

The thermal rearrangement of α-methyldiphenylsilyl ketones in acetonitrile leads to (Z) enol (methyldiphenylsilyl) ethers with high stereoselectivity.

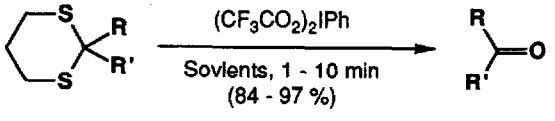


Tetrahedron Lett.30,287(1989)

A SIMPLE METHOD OF DETHIOACETALIZATION

Gilbert Stork* and Kang Zhao
Department of Chemistry, Columbia University, New York, New York 10027

Thioacetals or thioketals can be cleaved to carbonyl compounds in high yields by treatment with bis-(trifluoroacetoxy)iodobenzene.



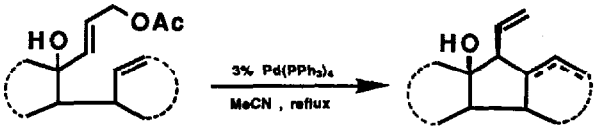
R = alkyl, R' = H. alkyl.
Solvents : MeOH,
MeOH:H_2O (9:1),
$HOCH_2CH_2OH$

Tetrahedron Lett.30,291(1989)

Synthesis Of Cyclopentanol Derivatives Via Palladium-Catalyzed Cyclic Allylmetallation-Dehydrometallation

Ei-ichi Negishi,* Suresh Iyer, and Christophe J. Rousset
Department of Chemistry, Purdue University, West Lafayette, Indiana 47907, USA

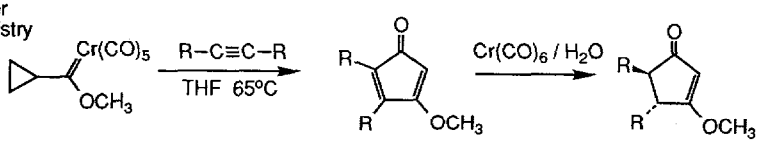
Pd-catalyzed cyclization of hydroxyallyl acetates to give vinylcyclopentanol derivatives.



Tetrahedron Lett.30,295(1989)

Cyclopentadienones in the Reaction of Alkynes with Cyclopropylcarbene-Chromium Complexes

James W. Herndon and Seniz U. Tumer
Department of Chemistry and Biochemistry
University of Maryland
College Park, Maryland 20742, USA



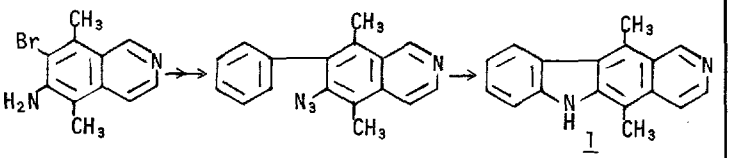
(Can be isolated if R is sterically bulky)

Tetrahedron Lett.30,297(1989)

A REGIOSPECIFIC TOTAL SYNTHESIS OF ELLIPTICINE *VIA* NITRENE INSERTION

R. Bryan Miller* and Sundeep Dugar
Department of Chemistry, University of California, Davis, CA 95616

Ellipticine (1) has been prepared regiospecifically using a nitrene insertion to form the 5-membered heterocyclic ring.

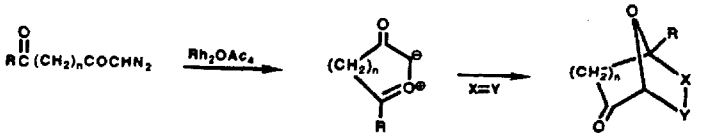


Tetrahedron Lett.30,301(1989)

CYCLIC CARBONYL YLIDE FORMATION FROM THE RHODIUM ACETATE CATALYZED REACTION OF 1-DIAZOALKANEDIONES

Albert Padwa, Richard L. Chinn, Susan F. Hornbuckle and Lin Zhi*
Department of Chemistry, Emory University, Atlanta, GA 30322 USA

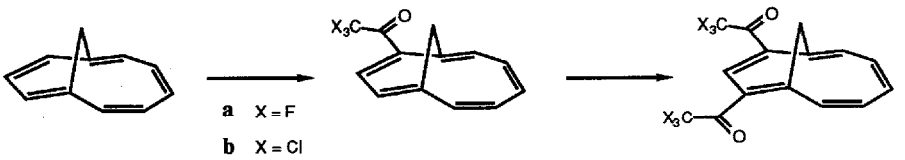
Treatment of 1-diazoalkanediones with rhodium (II) acetate results in cyclization of the intermediate rhodium carbenoid to give a cyclic carbonyl ylide which readily undergoes bimolecular dipolar cycloaddition with various dipolarophiles.



Tetrahedron Lett.30,305(1989)

HOMOAZULENE ELECTROPHILIC AROMATIC SUBSTITUTION REACTIONS. PARALLELS TO THE CHEMISTRY OF AZULENE.

Lawrence T. Scott,* Chris A. Sumpter, Mitsunori Oda, and Ihsan Erden, *Department of Chemistry and Center for Advanced Study, University of Nevada, Reno, Nevada 89557*

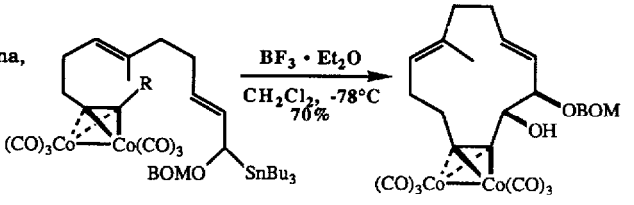


Tetrahedron Lett.30,309(1989)

STEREOSELECTIVE CYCLIZATION OF α-ALKOXYALLYLSTANNANE ALKYNALS AND THEIR Co-COMPLEXES. A NEW ROUTE TO CYCLODODECYNE-1,2-DIOL DERIVATIVES

James A. Marshall and Wei Yi Gung
Department of Chemistry, University of South Carolina, Columbia, South Carolina 29208 U.S.A.

Cyclization of the dicobalt hexacarbonyl alkynal complex **18** was effected with $BF_3 \cdot Et_2O$ at -78°C to the 12-membered diol derivative **19** as a single stereoisomer in 70% yield.



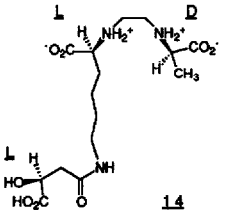
18 **19**

Tetrahedron Lett.30,313(1989)

TOTAL SYNTHESIS AND ABSOLUTE CONFIGURATION OF RHIZOBACTIN, A STRUCTURALLY NOVEL SIDEROPHORE

M. J. Smith
Department of Chemistry, Columbia University, New York, N.Y. 10027

The actual stereoisomer of rhizobactin, N^2-[2-[(R)-(1-carboxyethyl)amino]-ethyl]-N^6-(S)-(3-carboxy-3-)hydroxy-1-oxopropyl)-(S)-lysine **14**, has been synthesized and substantiates the conclusion that this siderophore is biochemically related to the pyruvic acid derived opines.



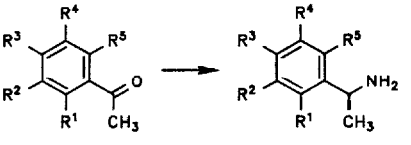
14

Tetrahedron Lett.30,317(1989)

ENANTIOMERICALLY PURE OXYGENATED 1-PHENYLETHYLAMINES FROM SUBSTITUTED ACETOPHENONES: BY REDUCTIVE AMINATION AND REGIOSPECIFIC BENZYLIC CLEAVAGE[1]

Gerhard Bringmann* and Jörg-Peter Geisler,
Institut für Organische Chemie der Universität Würzburg, Am Hubland, D-8700 Würzburg, FRG

An efficient method for the asymmetric synthesis of chiral, oxygenated 1-phenylethylamines **1** from substituted acetophenones **2** is described.



2 a-f **1 a-f**

Tetrahedron Lett.30,321(1989)

Synthesis of N-Acetoxy-2-aminonaphthaline, an Ultimate Carcinogen of the Carcinogenic 2-Naphthylamine, and Its In Vitro Reactions with (Bio)Nucleophiles

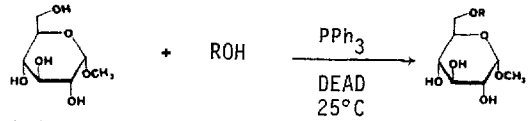
Michael Famulok, Ferdinand Bosold and Gernot Boche*
Fachbereich Chemie, Universität Marburg, D-3550 Marburg, FRG

In this communication we describe (1) the synthesis of N-acetoxy-2-aminonaphthaline 4a (an ultimate carcinogen of the carcinogenic 2-naphthylamine), of N-pivaloyloxy-2-aminonaphthaline 4b, and (2) the reactions of 4a(b) with the nucleophiles N-methylaniline 6 and deoxyguanosine 7. Of special interest is the formation of the deoxyguanosine "adducts" 12-14.

Tetrahedron Lett.30,325(1989)

SELECTIVE MODIFICATION OF NON PROTECTED MONO-AND DI-SACCHARIDES WITH ESTER AND ETHER LINKAGE.

P.Béraud, A.Bourhim, S.Czernecki* and P.Krausz; Université P.et M.Curie, Laboratoire de Chimie des Glucides, Bât.F,E6, 4 Place Jussieu- 75005 PARIS (FRANCE).



and N-acetyl-glucosamine
and maltose

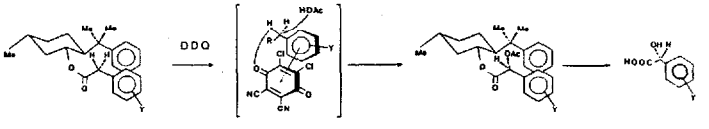
R= methacryloyl, adamantoyl, 2',7'-dichlorofluoresceine or phenyl.
Solvents: DMF, pyridine or THF.
DEAD: diethylazodicarboxylate.
Yields: 20-62 %

Tetrahedron Lett.30,327(1989)

STEREOSELECTIVE ACETOXYLATION OF CHIRAL PHENYLACETIC ESTERS

Alain GUY, Alain LEMOR, Dominique IMBERT and Marc LEMAIRE

Laboratoire de Chimie Organique (U.A. 1103) Conservatoire National des Arts et Métiers
292, rue Saint-Martin 75141 PARIS Cédex 03



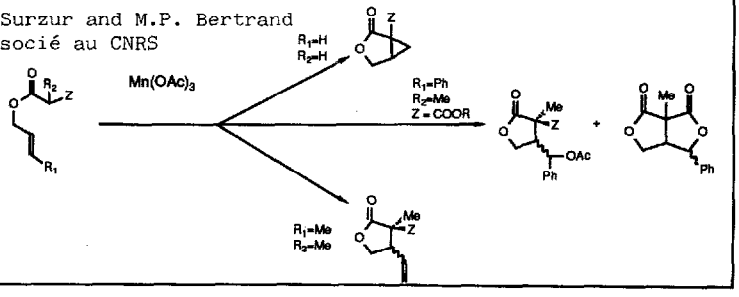
Y = 4-OiPr ; 4-OMe ; 3,4-DiOMe ; 3,4,5-TriOMe ; 3,4-(Methylene dioxy) ; 3,4-(Ethylene dioxy)

A convenient diastereoselective α-acetoxylation of substituted phenylacetic acid esters is described with good yields and d.e.

Tetrahedron Lett.30,331(1989)

Mn(III)-mediated Radical Lactonisation of Allylic Esters of Acetoacetic and Malonic Acids.

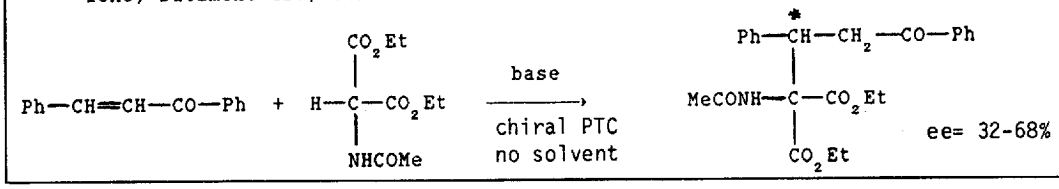
H. Oumar-Mahamat, C. Moustrou, J.M. Surzur and M.P. Bertrand
Laboratoire de Chimie Organique B-associé au CNRS
Faculté des Sciences St Jérôme
Av. Escadrille Normandie Niémen
13397 Marseille-Cedex 13



Tetrahedron Lett.30,333(1989)

SOLID-LIQUID PHASE TRANSFER CATALYSIS WITHOUT SOLVENT: AN IMPROVEMENT FOR CHIRAL MICHAEL ADDITION OF N-ACETYLAMINOMALONATE TO CHALCONE

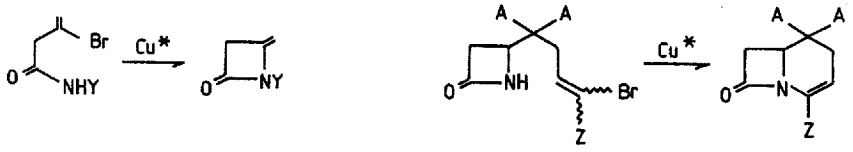
A. LOUPY, J. SANSOULET, A. ZAPARUCHA and C. MERIENNE
ICMO, Batiment 410, Université Paris-Sud, 91405 ORSAY (France)



Tetrahedron Lett.30,337(1989)

CARBACEPHEMS AND 4-METHYLENE-AZETIDIN-2-ONES BY COPPER-MEDIATED AMIDE NITROGEN-VINYLIC CARBON RING CLOSURE.

R. Joyeau, R. Kobaiter, J. Sadet and M. Wakselman
CNRS-CERCOA, 2-8 rue H. Dunant 94320 Thiais, France.

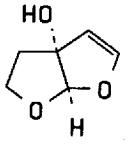


Tetrahedron Lett.30,341(1989)

SYNTHESIS OF FUROFURANIC MODEL OF NATURAL ANTIFEEDING SUBSTANCES .

A.P. Brunetière, M. Leclaire, S. Bhatnagar, J.Y. Lallemand
Ecole Polytechnique 91128 PALAISEAU France
and J. Cossy
Laboratoire de Photochimie, Université de Reims
51062 REIMS France .

A new synthesis of furofuranic system using mono electronic reactions is described .

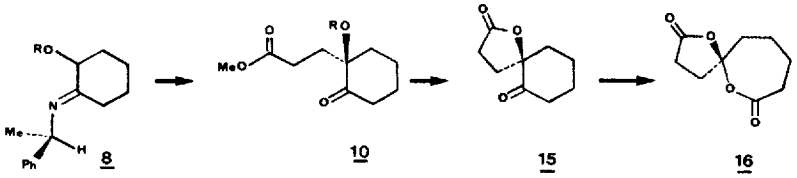


Tetrahedron Lett.30,345(1989)

ENANTIOSELECTIVE SYNTHESIS OF OXA-SPIRO COMPOUNDS

Didier Desmaële and Jean d'Angelo
Unité de Chimie Organique Associée au CNRS n°476, ESPCI
10 rue Vauquelin, 75231 Paris Cedex 05 (France)

THE ENANTIOSELECTIVE MICHAEL ADDITION OF CHIRAL IMINE 8 IS THE KEY STEP IN THE SYNTHESIS OF OPTICALLY ACTIVE SPIROLACTONE 15 AND 16.

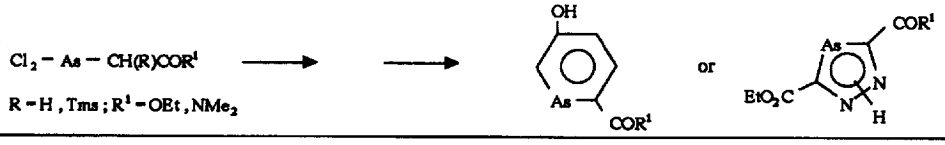


Tetrahedron Lett.30,349(1989)

EASY ACCESS TO FUNCTIONALIZED DICHLOROARSINES, SYNTHETIC EQUIVALENTS OF ARSAALKYNES

Souad HIMDI-KABBAB, Pascal PELLON and Jack HAMELIN*
Université de Rennes I, Campus de Beaulieu, 35042 Rennes Cedex, France

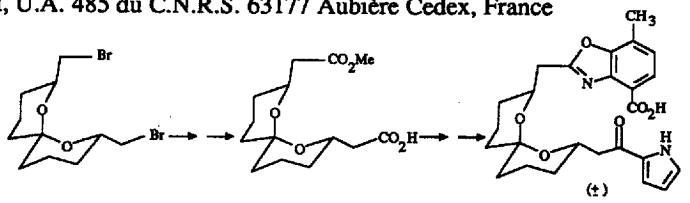
Silylated compounds react with $AsCl_3$ to give dichloroarsines which are dehydrochlorinated and trapped with a diene or a diazocompound.



Tetrahedron Lett.30,351(1989)

SYNTHESIS OF A BIOMIMETIC MODEL OF CALCIMYCIN (A 23187) WITH A DEMETHYLATED SKELETON

Jean-Gabriel Gourcy, Michelle Prudhomme, Gérard Dauphin and Georges Jeminet*
Université Blaise Pascal, U.A. 485 du C.N.R.S. 63177 Aubière Cedex, France

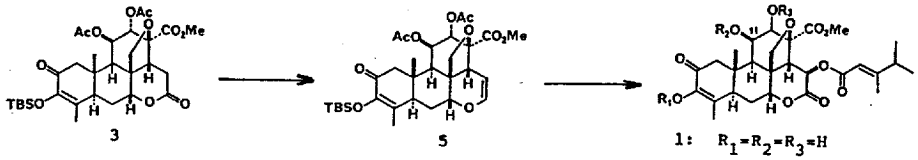


Extraction experiments indicated a net decrease of affinity towards Mg^{++} and Ca^{++} for this model on comparison with Calcimycin.

Tetrahedron Lett. 30,355(1989)

A FORMAL SYNTHESIS OF BRUCEANTIN

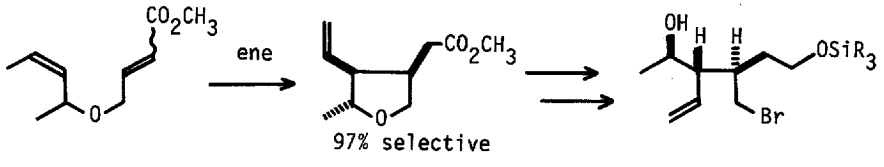
Makoto Sasaki and Tatsushi Murae*
Department of Chemistry, Faculty of Science, The University of Tokyo, Bunkyo-ku, Tokyo 113, Japan



Tetrahedron Lett.30,357(1989)

INTRAMOLECULAR ENE APPROACH TO STEREOCONTROL OVER THREE CONTIGUOUS CHIRAL CENTERS

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

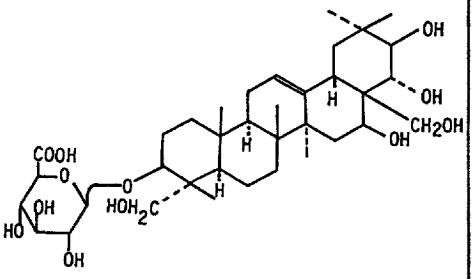


Tetrahedron Lett. 30, 361 (1989)

ESTABLISHMENT OF THE STRUCTURE OF GYMNEMAGENIN BY X-RAY ANALYSIS AND THE STRUCTURE OF DEACYLGYMNEMIC ACID

Yoshisuke Tsuda, Fumiyuki Kiuchi, and Hong-Min Liu
Faculty of Pharmaceutical Sciences, Kanazawa University, 13-1 Takara-machi, Kanazawa 920, Japan

The structure of gymnemagenin was established by X-ray analysis of a di-O-isopropylidene derivative. The structure of deacylgymnemic acid was elucidated as the 3-O-β-glucuronide by comparisons of the ^{13}C-NMR spectra.

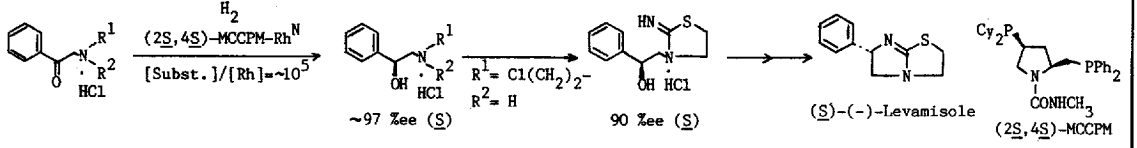


Tetrahedron Lett. 30, 363 (1989)

EFFICIENT ASYMMETRIC HYDROGENATION OF α-AMINOACETOPHENONE DERIVATIVES LEADING TO PRACTICAL SYNTHESIS OF (S)-(-)-LEVAMISOLE

Hideo Takeda,* Takeshi Tachinami, and Masakazu Aburatani
Research Division, Fuji Chemical Industries, Ltd. 530 Chokeiji, Takaoka 933, Japan

Hisashi Takahashi, Toshiaki Morimoto, and Kazuo Achiwa*
School of Pharmaceutical sciences, University of Shizuoka, 2-2-1 Oshika, Shizuoka 422, Japan

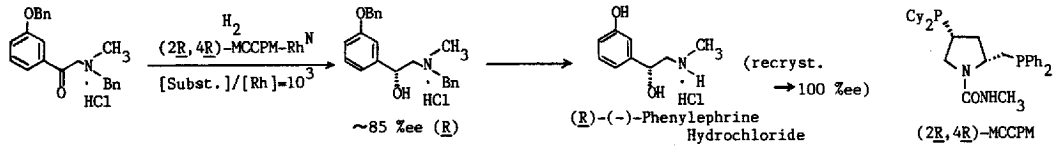


Tetrahedron Lett. 30, 367 (1989)

PRACTICAL ASYMMETRIC SYNTHESIS OF (R)-(-)-PHENYLEPHRINE HYDROCHLORIDE CATALYZED BY (2R,4R)-MCCPM-RHODIUM COMPLEX

Hideo Takeda,* Takeshi Tachinami, and Masakazu Aburatani
Research Division, Fuji Chemical Industries, Ltd. 530 Chokeiji, Takaoka 933, Japan

Hisashi Takahashi, Toshiaki Morimoto, and Kazuo Achiwa*
School of Pharmaceutical Scienecs, University of Shizuoka, 2-2-1 Oshika, Shizuoka 422, Japan

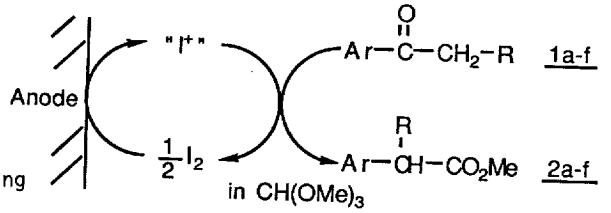


Tetrahedron Lett. 30, 371 (1989)

A FACILE TRANSFORMATION OF ALKYL ARYL KETONES TO METHYL α-ARYLALKANOATES BY ANODIC OXIDATION IN THE PRESENCE OF IODINE OR IODO COMPOUNDS

T. Shono,* Y. Matsumura, S. Katoh, T. Fujita, and T. Kamada
Department of Synthetic Chemistry, Kyoto University, Kyoto 606, Japan

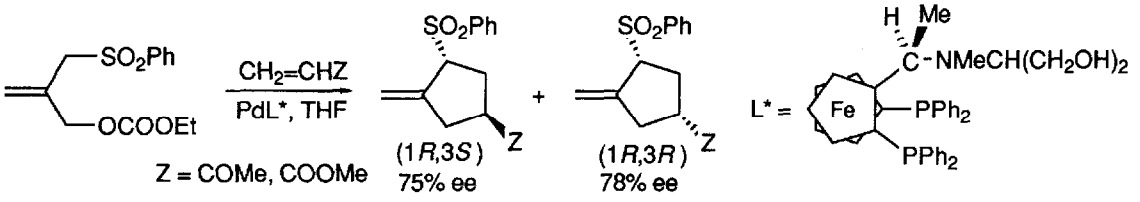
Methyl α-arylalkanoates 2 are prepared from alkyl aryl ketones 1 by anodic oxidation using iodo mediator in trimethyl orthoformate.



Tetrahedron Lett.30,375(1989)

ASYMMETRIC [3 + 2] CYCLOADDITION OF 2-(SULFONYLMETHYL)-2-PROPENYL CARBONATE CATALYZED BY CHIRAL FERROCENYLPHOSPHINE-PALLADIUM COMPLEXES

Akihiro Yamamoto, Yoshihiko Ito, and Tamio Hayashi
Department of Synthetic Chemistry, Kyoto University, Kyoto 606, Japan

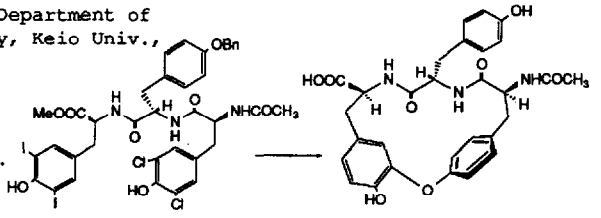


Tetrahedron Lett.30,379(1989)

BIOMIMETIC SYNTHESIS AND STEREOSTRUCTURE OF K-13, A NOVEL INHIBITOR OF ANGIOTENSIN I CONVERTING ENZYME

S. Nishiyama, Y. Suzuki, and S. Yamamura*, Department of Chemistry, Faculty of Science and Technology, Keio Univ., Hiyoshi, Yokohama, Japan

Synthesis of K-13 from the corresponding tripeptide and its structural determination.



Tetrahedron Lett.30,383(1989)

SYNTHESIS OF ORGANIC PHOSPHORUS COMPOUNDS CONTAINING A LINEAR P-B BOND CHAIN

Tsuneo Imamoto* and Toshiyuki Oshiki

Department of Chemistry, Faculty of Science,

Chiba University, Yayoi-cho, Chiba 260, Japan