

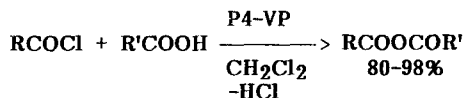
GRAPHICAL ABSTRACTS

PHASE MANAGED ORGANIC SYNTHESIS 2. A NEW POLYMER ASSISTED SYNTHESIS OF ACID ANHYDRIDES

Wilmer K. Fife* and Zhi-dong Zhang

Dept. of Chemistry, Indiana University-Purdue University at Indianapolis, Indianapolis, IN 46223 USA

Tetrahedron Lett. 27, 4933 (1986)



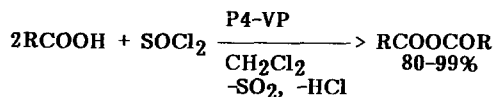
P4-VP \equiv Poly(4-vinylpyridine)₃(divinylbenzene)

PHASE MANAGED ORGANIC SYNTHESIS 3. SYMMETRICAL ANHYDRIDES FROM CARBOXYLIC ACIDS VIA POLYMER ASSISTED REACTION

Wilmer K. Fife* and Zhi-dong Zhang

Dept. of Chemistry, Indiana University-Purdue University at Indianapolis, Indianapolis, IN 46223 USA

Tetrahedron Lett. 27, 4937 (1986)



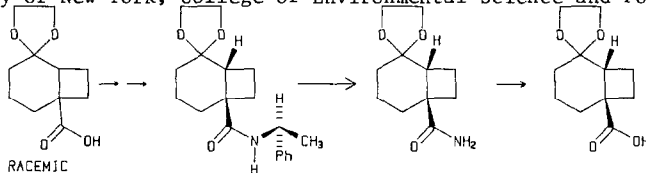
P4-VP \equiv Poly(4-vinylpyridine)₃(divinylbenzene)

CLEAVAGE OF HINDERED α -METHYLBENZYLAMIDES, INTERMEDIATES IN THE RESOLUTION OF CARBOXYLIC ACIDS

Francis X. Webster, Jocelyn G. Millar, and Robert M. Silverstein*

State University of New York, College of Environmental Science and Forestry, Syracuse,
NY 13210 USA

Tetrahedron Lett. 27, 4941 (1986)

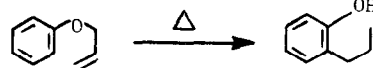


APPLICATION OF COMMERCIAL MICROWAVE OVENS TO ORGANIC SYNTHESIS

R. Giguere*, T. Bray, and S. Duncan; Department of
Chemistry, Mercer University, Macon, Georgia 31207

G. Majetich*, Department of Chemistry, The University
of Georgia, Athens, Georgia 30602

Tetrahedron Lett. 27, 4945 (1986)



Literature: 6 hrs, NEAT, 220°
85%

Microwave: 6 min, DMF, >300°
92%

Commercial microwave ovens have been safely used to
dramatically reduce the reaction times of Diels-Alder,
Claisen, and ene reactions.

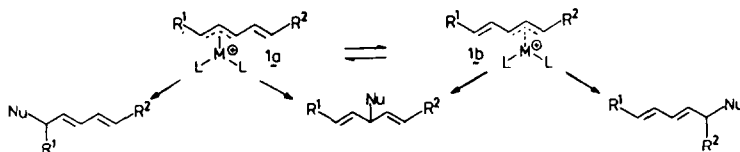
Tetrahedron Lett. 27, 4949 (1986)

REGIOCHEMICAL DIRECTING EFFECTS IN PALLADIUM CATALYZED
ALKYLATIONS WITH POLYENE ELECTROPHILIC PARTNERS

Barry M. Trost*, Christopher J. Urch, and Ming-Hong Hung

Department of Chemistry, University of Wisconsin, 1101 University Ave., Madison, WI 53706

Unusual regioselectivity in
alkylations arise as a result
of the dynamic behavior of
trihapto pentadienyl metal
complexes.



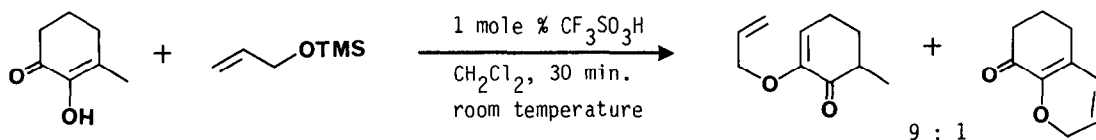
Tetrahedron Lett. 27, 4953 (1986)

SYNTHESIS OF DIOSPHENOL ETHERS
BY MEANS OF ALKOXYTRIMETHYLSILANES

A.A. Ponaras* and Md. Younus Meah

Department of Chemistry, The Catholic University of America, Washington, DC 20064.

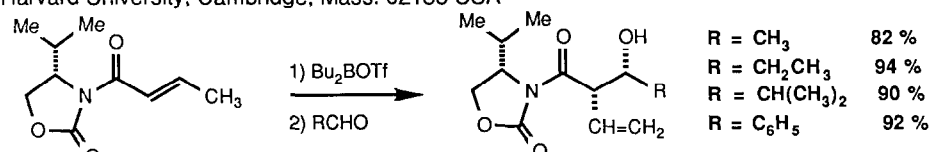
Diosphenols are O-alkylated by alkoxytrimethylsilanes under mild conditions.



Tetrahedron Lett. 27, 4957 (1986)

ALDOL ADDITION REACTIONS OF CHIRAL CROTONATE IMIDES

David A. Evans, * Eric B. Sjogren, Javier Bartroli, Robert L. Dow, Department of Chemistry,
Harvard University, Cambridge, Mass. 02138 USA

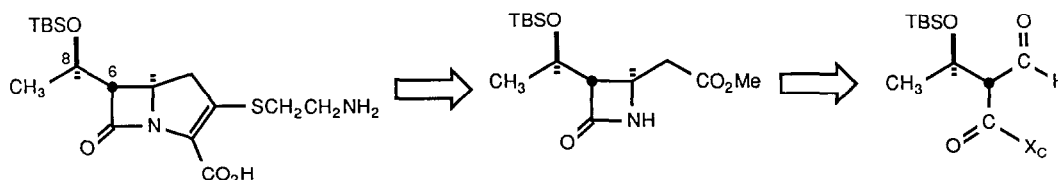


The aldol addition reactions of the boron enolate derived from the illustrated chiral carboximides are described. The application of this reaction to the synthesis of the C(11)-C(15) tylenolide and C(17)-C(21) ionomycin synthons is reported.

Tetrahedron Lett. 27, 4961 (1986)

THE ASYMMETRIC SYNTHESIS OF B-LACTAM ANTIBIOTICS-IV. A FORMAL SYNTHESIS OF THIENAMYCIN

David A. Evans, * Eric B. Sjogren, Department of Chemistry, Harvard University, Cambridge, Mass. 02138 USA

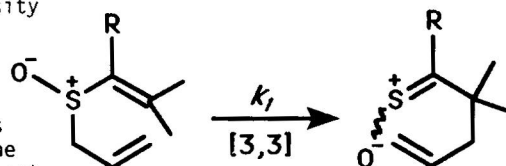


An enantioselective synthesis for the illustrated 2-formyl 3-hydroxy carboxylic acid derivative is described. The conversion of this intermediate into the trans azetidinone completes a formal synthesis of thienamycin.

THE ZWITTERION-ACCELERATED [3,3]-SIGMATROPIC REARRANGEMENT OF ALLYL VINYL SULFOXIDES TO SULFINES. A SPECIFIC CLASS OF CHARGE-ACCELERATED REARRANGEMENT
 Jih Ru Hwu* and Denise A. Anderson
 Department of Chemistry, The Johns Hopkins University
 Baltimore, MD 21218 U.S.A.

Tetrahedron Lett. 27, 4965 (1986)

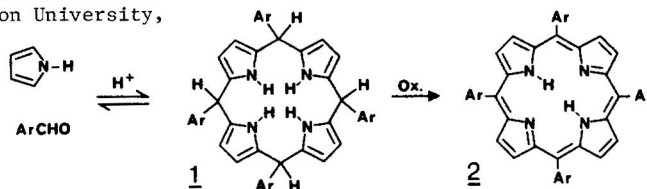
Conversion of allyl vinyl sulfoxides to γ,δ -unsaturated sulfines under neutral conditions shows that the accelerating effects of the charges in a zwitterionic moiety do not cancel, instead the sulfoxide functionality facilitates the rearrangement.



SYNTHESIS OF TETRAPHENYLPORPHYRINS UNDER VERY MILD CONDITIONS

Jonathan S. Lindsey*, Henry C. Hsu, and Irwin C. Schreiman
 Department of Chemistry, Carnegie-Mellon University,
 Pittsburgh, PA 15213 USA

A room temperature procedure affords new classes of substituted porphyrins. The reaction conditions are of broad scope.



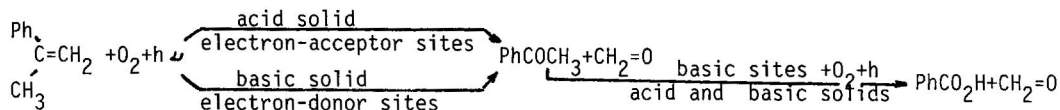
Tetrahedron Lett. 27, 4969 (1986)

INFLUENCE OF THE ACTIVE SITES AND STRUCTURE OF INORGANIC SUPPORTS ON THE PHOTOOXIDATIVE CLEAVAGE OF OLEFINS WITH OXYGEN IN DRY MEDIA

J.V.Sinisterra and J.M.Marinás

Organic Chemistry Department, Faculty of Sciences, Córdoba, Spain

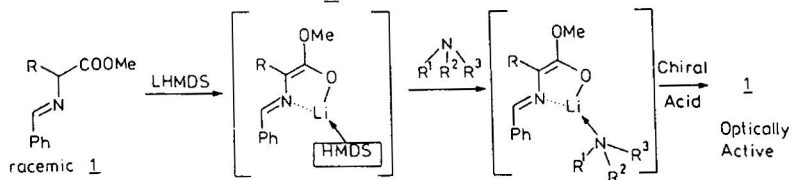
Tetrahedron Lett. 27, 4971 (1986)



L. Duhamel, S. Fouquay, J.C. Plaquevent
 Ligand exchange in asymmetric reactions of lithium enolates: application to the deracemization of α -amino acids.

Faculté des Sciences de ROUEN, UA.464 CNRS et IRCOF, F 76130 Mont Saint Aignan

A new procedure for the deracemization of amino acids is described, involving an amine exchange after the metalation of the racemic starting material.



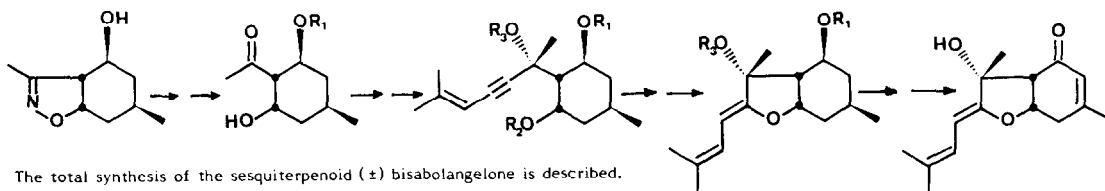
Tetrahedron Lett. 27, 4975 (1986)

TOTAL SYNTHESIS OF (±)-BISABOLANGELONE

Bernard P. RISS and Bernard MUCKENSTURM

Institut de Chimie, Université Louis Pasteur, UA 31, 67008 STRASBOURG - FRANCE

Tetrahedron Lett., 27, 4979 (1986)

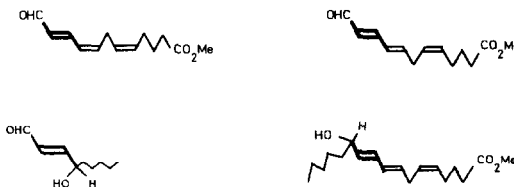
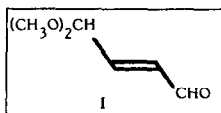


The total synthesis of the sesquiterpenoid (±) bisabolangelone is described.

FUMARALDEHYDE MONODIMETHYL ACETAL : AN EASILY ACCESSIBLE AND VERSATILE INTERMEDIATE. , René GREE, Hiam TOURBAH and Robert CARRIE G.R.P.S., U.A. 704, Université de Rennes, Campus de Beaulieu, 35042 Rennes Cédex, France.

Starting from 1 short and stereoselective synthesis of various lipids from natural origin are described.

Tetrahedron Lett., 27, 4983 (1986)

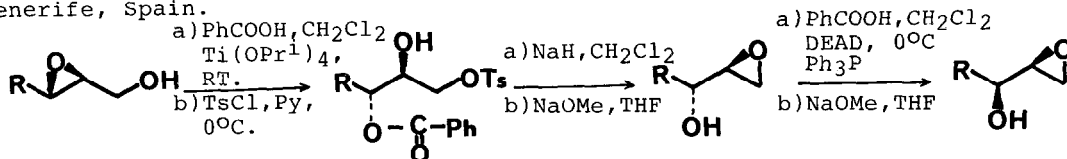


GENERAL METHOD TO TRANSFORM CHIRAL 2,3-EPOXYALCOHOLS INTO ERYTHRO OR THREO 1,2-EPOXYALCOHOLS WITH TOTAL STEREOCHEMICAL CONTROL

J.M. Palazón, B. Añorbe and V.S. Martín*

Instituto Universitario de Química Orgánica, Universidad de La Laguna, Tenerife, Spain.

Tetrahedron Lett., 27, 4987 (1986)

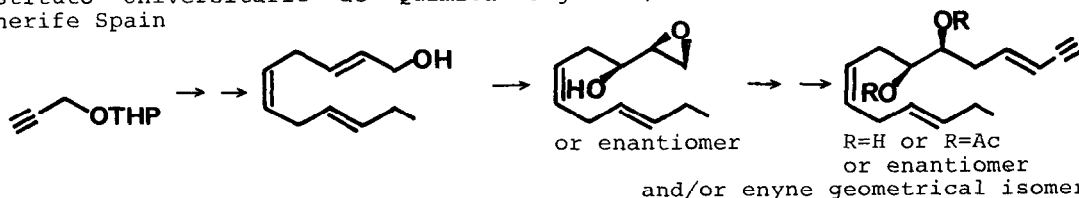


ENANTIOMERIC SYNTHESIS OF 6(R), 7(R) AND 6(S), 7(S) trans- and cis- LAUREDIOL

B. Añorbe, V.S. Martín*, J.M. Palazón and J.M. Trujillo

Instituto Universitario de Química Orgánica, Universidad de La Laguna, Tenerife Spain

Tetrahedron Lett., 27, 4991 (1986)

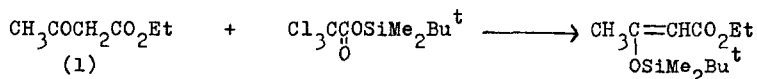


Tetrahedron Lett. 27, 4995 (1986)

Novel Trichloroacetyl Based Silylations.

A.A.Galan, T.V.Lee and C.B.Chapleo
(Department of Organic Chemistry, University of Bristol U.K.)

A novel method for trimethylsilylating the amine function is described as is an alternative way of introducing the *t*-butyldimethylsilyl group onto alcohols, amines, phenols and 1,3-dicarbonyl compounds as illustrated by the reaction of (1).

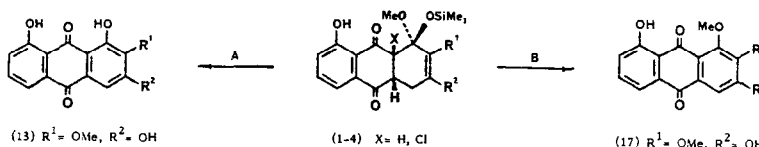


Tetrahedron Lett. 27, 4999 (1986)

SYNTHESIS OF SPECIFICALLY O-ALKYLATED ANTHRAQUINONES BY CYCLOADDITION

Donald W. Cameron*, Geoffrey I. Feutrill*, Glenn B. Gamble and John Stavrakis
Department of Organic Chemistry, University of Melbourne, Parkville, Vic. 3052, Australia.

Thirteen specifically O-methylated anthraquinones synthesized by controlled conversion of Cycloadducts (1-4) into -OH or -OMe products eg. (13) or (17) respectively.

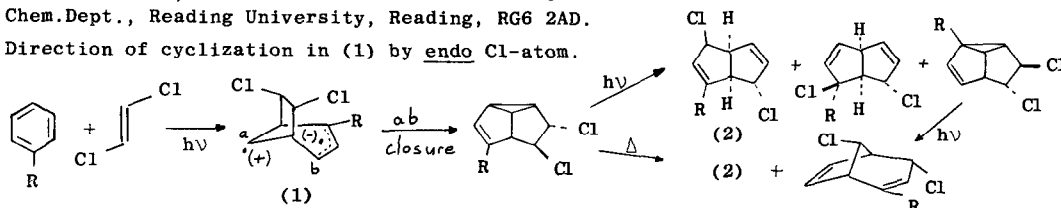


Tetrahedron Lett. 27, 5003 (1986)

META PHOTOCYCLOADDITION OF TRANS 1,2-DICHLOROETHYLENE TO BENZENOID COMPOUNDS

Jan Cornelisse, Andrew Gilbert* and Paul Rodwell
Chem. Dept., Reading University, Reading, RG6 2AD.

Direction of cyclization in (1) by endo Cl-atom.



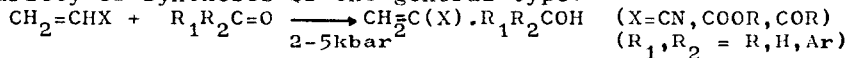
Tetrahedron Lett. 27, 5007 (1986)

FUNCTIONALISATION OF THE α -POSITION OF ACRYLIC SYSTEMS BY ADDITION TO CARBONYL COMPOUNDS.

Jonathan S.Hill and Neil S.Isaacs,

Department of Chemistry, University of Reading, Reading, RG6 2AD, U.K.

A wide variety of syntheses of the general type:

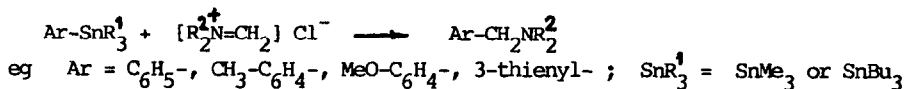


occur at moderate pressures, 2-5 kbar, and in high yield

MANNICH REACTIONS OF ARYL-TRIALKYLSTANNANES USING
 PREFORMED DIALKYL-METHYLENEIMINIUM SALTS

Mark S. Cooper and Harry Heaney*

Department of Chemistry, The University of Technology, Loughborough, Leicestershire, LE11 3TU



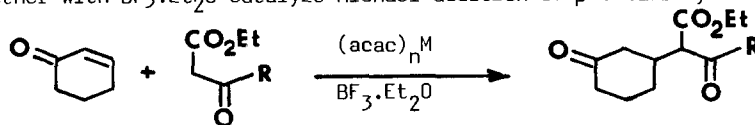
Tetrahedron Lett. 27, 5011 (1986)

TRANSITION-METAL CATALYSIS IN MICHAEL ADDITION OF
 β-DICARBONYLS: TUNING OF THE REACTION CONDITIONS

Pavel Kočovský* and Dalimil Dvořák

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences
 16610 Prague 6, Czechoslovakia

(Acac)Cu^I and (acac)₂Cu^{II} together with BF₃.Et₂O catalyze Michael addition of β-dicarbonyls to cyclohexenone, cyclopentenone, 2-methylcyclopentenone, and 3-thienylidenemalonialdehyde. β,β-Disubstituted conjugated enones do not react.



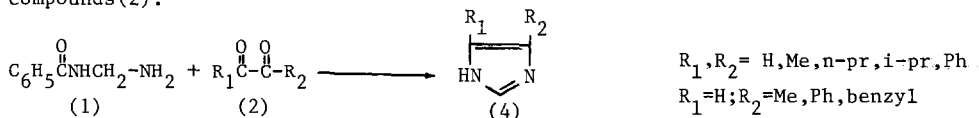
Tetrahedron Lett. 27, 5015 (1986)

A NEW SYNTHESIS OF UNSUBSTITUTED,
 4(5)-, AND 4,5-SUBSTITUTED 1H-IMIDAZOLES.

A. Khalaj* and M. Ghafari

College of Pharmacy, Tehran University, Iran.

A novel synthesis of imidazoles(4) from N-(aminomethyl) benzamide(1) and 1,2-dicarbonyl compounds(2).

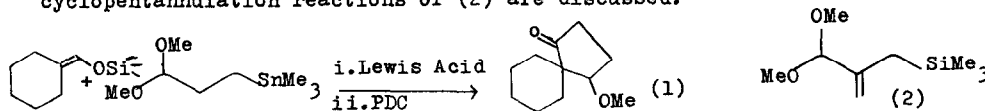


Tetrahedron Lett. 27, 5019 (1986)

A Simple Preparation of Spirocycles and an Allylsilane
 Based Bifunctional Acceptor-Donor Annulating Reagent.

T.V. LEE, K.A. RICHARDSON and D.A. TAYLOR (University of Bristol, England)

A novel spirocycle synthesis is described as shown by the preparation of (1) and some cyclopentannulation reactions of (2) are discussed.

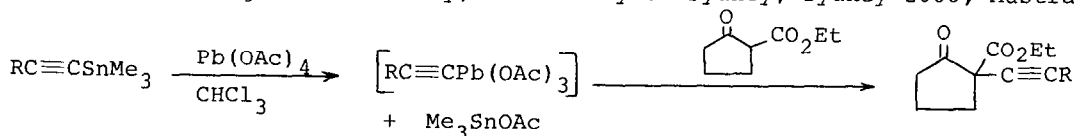


Tetrahedron Lett. 27, 5021 (1986)

Tetrahedron Lett. 27, 5025 (1986)

'ALK-1-YNYLLEAD TRIACETATES' AS ALK-1-YNYL CARBOCATION EQUIVALENTS. THE α -ALK-1-YNYLATION OF β -DICARBONYL COMPOUNDS AND NITRONATE SALTS

Mark G. Moloney, John T. Pinhey* and Eric G. Roche
Department of Organic Chemistry, University of Sydney, Sydney 2006, Australia



Tetrahedron Lett. 27, 5029 (1986)

SELECTIVE ACYLATIONS OF AMINOPHENOLS AND HYDROXYALKYL-PHENOLS WITH 1-ACETYL- \bar{v} -TRIAZOLO[4,5- \bar{b}]PYRIDINE

Mario Paglialonga Paradisi, Giampiero Pagani Zecchini, and Ines Torrini

Istituto di Chimica Farmaceutica dell'Università, 00185 Roma, Italy

Highly chemoselective acylations of aminophenols (e.g. 2a) and hydroxyalkylphenols (e.g. 4a) were accomplished by the title triazolide 1.

