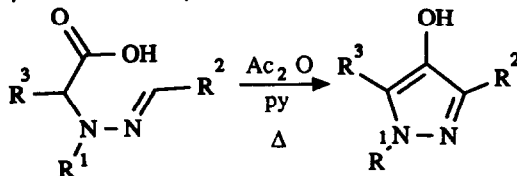


GRAPHICAL ABSTRACTS

Tetrahedron Lett. 29,1341(1988)

THE SYNTHESIS OF 1H-PYRAZOL-4-OLS FROM
2-(2-ALKYLIDENEHYDRAZINO)ACETIC ACIDS

Garry M. Pilling, Rebecca H. Bell, and Robert E Johnson*, Sterling Winthrop
Research Institute, Rensselaer, NY 12144

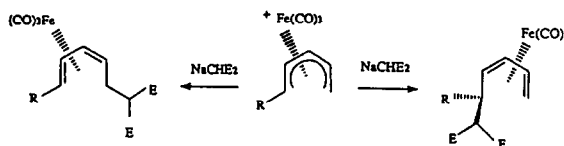


Tetrahedron Lett. 29,1343(1988)

(η^5 -1-SUBSTITUTED-PENTADIENYL)(TRICARBONYL)IRON(+1)
CATIONS: REACTIVITY WITH MALONATE NUCLEOPHILES

William A. Donaldson* and Muthukumar Ramaswamy, Department of Chemistry, Marquette Univer-
sity, Milwaukee, WI 53233 USA

The reaction of 1-substituted pentadienyl
iron cations (R = Me, Et, n-Pro, Ph,
methoxycarbonyl) with dimethylmalonate
affords the products from attack at the
pentadienyl termini.

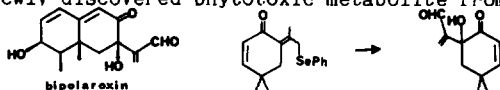


Tetrahedron Lett. 29,1347(1988)

SYNTHESIS OF A MONOCYCLIC ANALOGUE OF BIPOLAROXIN, A
PHYTOTOXIN OF FUNGAL ORIGIN

Zev Lidert*, Simon F. Williams and Andrew B. Holmes
Rohm and Haas Company, Research Division, Spring House, Pennsylvania 19477, USA
University Chemical Laboratory, Lensfield Rd., Cambridge CB2 1EW, U.K.

A sequence of three reactions leads to an efficient synthesis of a model for
bipolaroxin, a newly discovered phytotoxic metabolite from *Bipolaris cynodontis*.



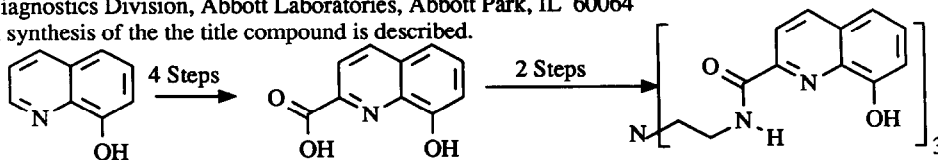
Tetrahedron Lett. 29,1351(1988)

SYNTHESIS OF A NOVEL HEXADENTATE CHELATOR
BASED ON 8-HYDROXYQUINOLINE

Tris-N-(2-aminoethyl-[8-hydroxyquinoline-2-carboxamido])amine

William D. Shrader*, Joseph Celebuski, Steven J. Kline and David Johnson
Diagnostics Division, Abbott Laboratories, Abbott Park, IL 60064

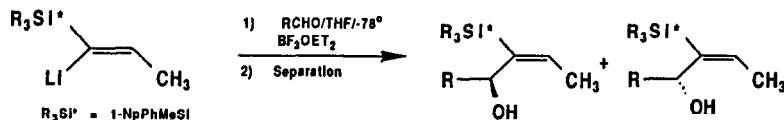
A synthesis of the the title compound is described.



Tetrahedron Lett. 29,1355 (1988)

AN ASYMMETRIC HYDROGEN EQUIVALENT: USE OF THE 1-NAPHTHYLPHENYL-METHYLSILYL GROUP IN THE PREPARATION OF OPTICALLY ACTIVE ALLYL ALCOHOLS AND (S) 1-PHENYL-1,2-BUTADIENE.

Evelyn Torres, Gerald L. Larson*, Glenn J. McGarvey* Departments of Chemistry, Universities of Puerto Rico, Rio Piedras, PR 00931 and Virginia, Charlottesville, VA 22901 and Dynamit Nobel Chemicals, Inc. Petrarch Systems, Bartram Road, Bristol, PA 19007



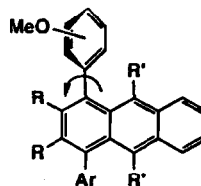
The potential of using a chiral organosilane as a single antipode at silicon in the preparation and separation of diastereomers has been demonstrated.

Tetrahedron Lett. 29,1359 (1988)

SYNTHESIS AND ROTATIONAL BARRIERS OF ARYL-SUBSTITUTED NAPHTHACENE SYSTEMS: FRAMEWORK FOR A RECEPTOR MODEL

Jeffrey A. Dodge and A. Richard Chamberlin*
Department of Chemistry
University of California
Irvine, California 92717

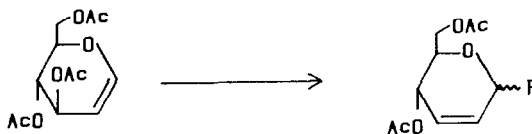
The preparation and barriers to aryl rotation for *ortho* and *meta* tetra-substituted naphthacenes and related systems are described. Rotational barriers were determined either spectroscopically, via coalescence studies, or through the use of an Arrhenius plot.

Tetrahedron Lett. 29,1363 (1988)

REACTION OF GLYCOLS WITH PYRIDINIUM POLY(HYDROGEN FLUORIDE) GIVING FERRIER REARRANGED SUGAR FLUORIDES

Simon J. F. Macdonald and Thomas C. McKenzie*
Department of Chemistry, University of Alabama, Tuscaloosa
Alabama 35487

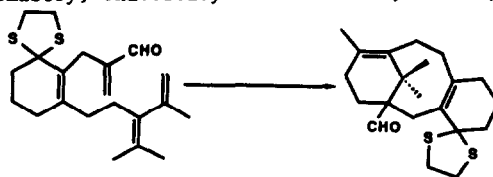
Treatment of certain glycols with pyridinium poly(hydrogen fluoride) afford Ferrier rearranged fluorides, which have been characterized by their ^{19}F nmr spectra and the preparation of derivatives.

Tetrahedron Lett. 29,1367 (1988)

SYNTHETIC EFFORTS DIRECTED TOWARDS THE TAXOL SKELETON. THE SATURATED C-RING APPROACH.

K.J. Shea and C.D. Haffner

Department of Chemistry, University of California, Irvine, CA 92717 USA

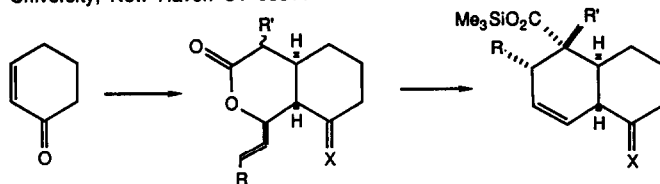


Tetrahedron Lett.29,1371(1988)

AN APPLICATION OF THE IRELAND REACTION TO THE STEREOSPECIFIC SYNTHESIS OF FUSED CARBOCYCLIC RINGS

Samuel J. Danishefsky* and James E. Audia
Department of Chemistry, Yale University, New Haven CT 06511

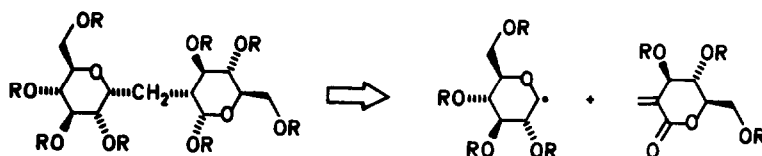
The sequence : group transfer
Michael addition, aldol /
lactonization and Claisen
rearrangement provides
access to the title compounds.

Tetrahedron Lett.29,1375(1988)

SYNTHESIS OF METHYLENE BRIDGED C-DISACCHARIDES

Bernd Giese, Monika Hoch, Clemens Lamberth, and Richard R. Schmidt

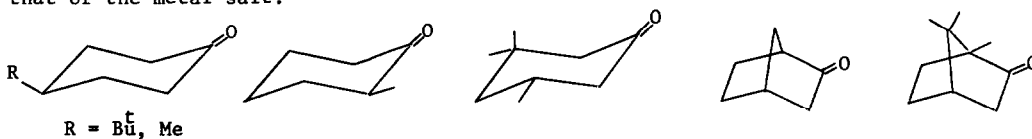
TH Darmstadt and
Universität Konstanz,
Germany

Tetrahedron Lett.29,1379(1988)

Activation of Reducing Agents. Sodium hydride containing
Complex Reducing Agents 28. Stereochemistry of reduction
of ketones by Complex Reducing Agents

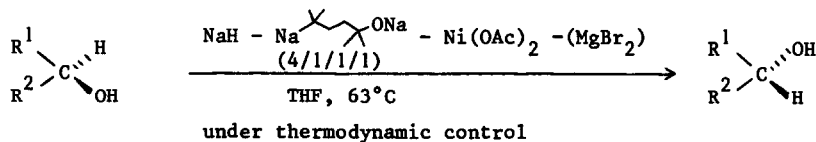
A. FEGHOULI, Y. FORT, R. VANDERESSE and P. CAUBERE*
Laboratoire de Chimie Organique I, Associé au CNRS (UA 457), Université de Nancy I, BP 239,
54506 VANDOEUVRE LES NANCY CEDEX (FRANCE)

It has been established that the selectivity of reduction of selected ketones by
Complex Reducing Agents is depending on the nature of their constituents and principally
on that of the metal salt.

Tetrahedron Lett.29,1383(1988)

ACTIVATION OF REDUCING AGENTS. SODIUM HYDRIDE CONTAINING
COMPLEX REDUCING AGENTS 29. EPIMERIZATION OF ALCOHOLS BY
NICKEL CONTAINING COMPLEX REDUCING AGENTS (NiCRA).

G. FEGHOULI, R. VANDERESSE, Y. FORT and P. CAUBERE*
Laboratoire de Chimie Organique I, associé au CNRS (UA 457), Université de Nancy I, B.P. 239,
54506 Vandoeuvre-les-Nancy Cédex (France)



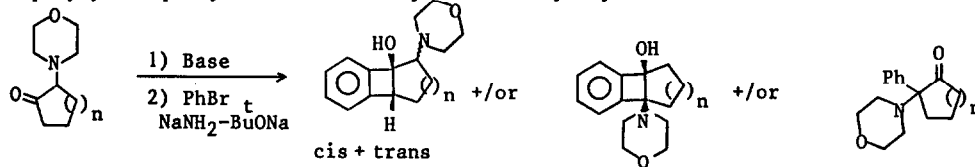
ARYNIC CONDENSATION OF KETONE ENOLATES 19. SYNTHESIS OF POLYCYCLIC PHENYLETHANOLAMINES

Tetrahedron Lett. 29,1385 (1988)

P. Geoffroy, A. Mouaddib, M.C. Carré and P. Caubère*

Laboratoire de Chimie Organique I, UA CNRS 457, Université de Nancy I, BP 239, 54506 Vandoeuvre les Nancy Cédex (France)

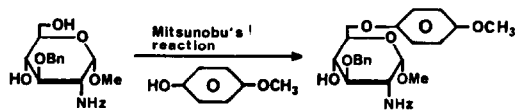
New polycyclic phenylethanolamines synthesized by arynic condensation of α aminoketone enolates.



Tetrahedron Lett. 29,1389 (1988)

P-ANISYL ETHERS IN CARBOHYDRATE CHEMISTRY : SELECTIVE PROTECTION OF THE PRIMARY ALCOHOL FUNCTION

M. Petitou, P. Duchaussoy and J. Choay
Institut Choay, 75782 Paris Cedex 16, France

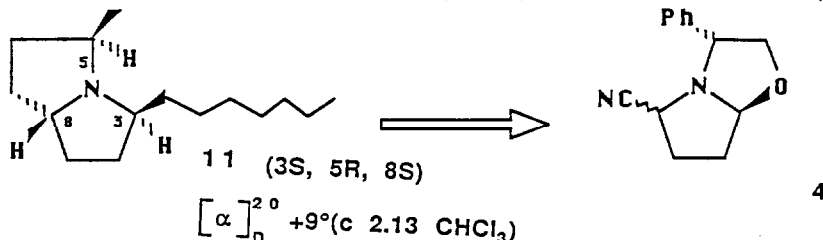


A p-anisyl ether can be selectively introduced to protect the primary alcohol function of an hexose. Both introduction and removal proceed in excellent yields.

ASYMMETRIC SYNTHESIS XIV¹: A SHORT AND EFFICIENT SYNTHESIS OF 3,5-DISUBSTITUTED PYRROLIZIDINE ALKALOIDS VIA THE CN(R,S) METHOD²

Tetrahedron Lett. 29,1391 (1988)

S. ARSENIYADIS, P.Q. HUANG and H.-P. HUSSON*
Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif-sur-Yvette Cedex, France

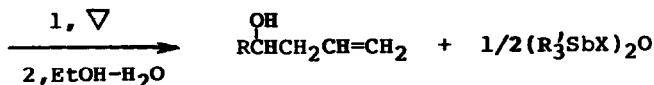
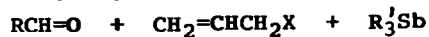


BARBIER-TYPE REACTION WITH TRIALKYLSTIBINE

Tetrahedron Lett. 29,1395 (1988)

Chen Chen, Yanchang Shen and Yao-Zeng Huang*

Shanghai Institute of Organic Chemistry, Academia Sinica,
345 Lingling Lu, Shanghai, China



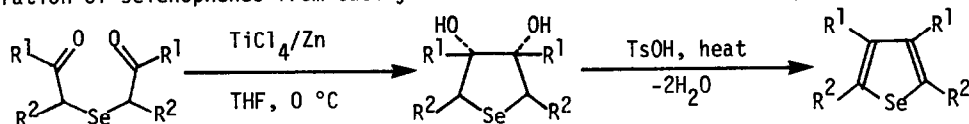
A NOVEL SYNTHESIS OF SELENOPHENES

Tetrahedron Lett. 29, 1399 (1988)

Juzo Nakayama,* Fumito Murai, Masamatsu Hoshino and Akihiko Ishii

Department of Chemistry, Faculty of Science, Saitama University, Urawa, Saitama 338, Japan

Preparation of selenophenes from easily accessible diketo selenides is presented.



THE STRUCTURES OF SULFOMYCIN I AND BERNINAMYCIN A

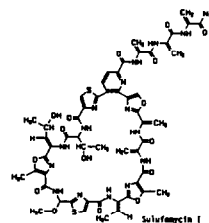
Tetrahedron Lett. 29, 1401 (1988)

Hiroshi Abe,*^a Katsuhiko Kushida,^b Yoshinori Shiobara,^c and Mitsuaki Kodama^c

^a Organic Chemistry Research Laboratory, Tanabe Seiyaku Co., Ltd., Toda, Saitama 335, Japan

^b Varian Instruments Ltd., Shinjuku-ku, Tokyo 160, Japan

^c Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro-cho, Tokushima 770, Japan

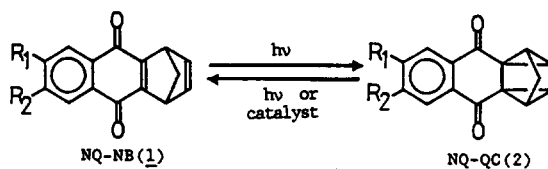


PHOTOCYCLIZATION OF NORBORNADIENES FUSED WITH QUINONE UNITS

Tetrahedron Lett. 29, 1405 (1988)

T. Suzuki, Y. Yamashita, T. Mukai, and T. Miyashi*

Department of Chemistry, Faculty of Science, Tohoku University, Aramaki, Sendai 980, Japan



On irradiation with visible light, (1) isomerize quantitatively to (2). [Φ at 460 nm : 0.14 - 0.21]

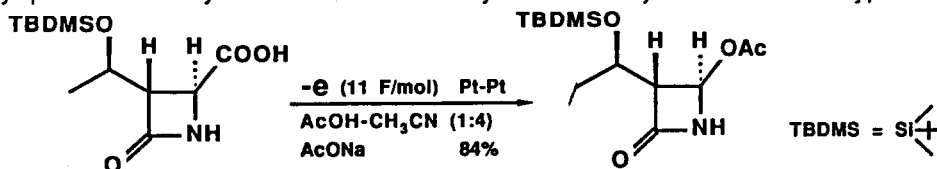
NEW SYNTHESIS OF 4-ACETOXY-2-AZETIDINONES BY USE OF ELECTROCHEMICAL OXIDATION

Tetrahedron Lett. 29, 1409 (1988)

Miwako Mori*, Katsuji Kagechika, Koh Tohjima, and Masakatsu Shibasaki*

Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan

Optically pure 4-acetoxy-2-azetidione was synthesized by use of Kolbe-type electrolysis.

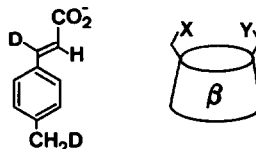


Tetrahedron Lett. 29, 1413 (1988)

DYNAMIC MOLECULAR MOTIONS OF GUEST MOLECULE INCLUDED
IN MODIFIED β -CYCLODEXTRINS

Iwao Tabushi, Yasuhisa Kuroda* and Masahiko Yamada
Department of Synthetic Chemistry, Kyoto University, Sakyo-ku Yoshida, Kyoto 606, Japan

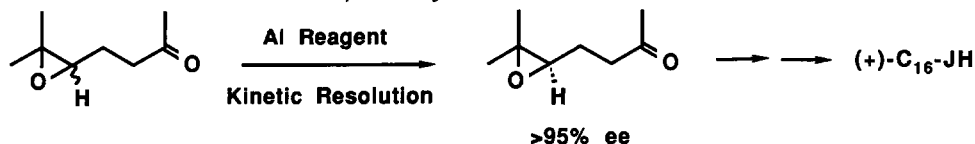
Dynamic molecular motions of p-methylcinnamic acid included into modified β -cyclodextrins were measured by the deuterium quadrupolar relaxation method.



Tetrahedron Lett. 29, 1417 (1988)

A NEW SYNTHETIC ROUTE TO JUVENILE HORMONE. KINETIC
RESOLUTION OF EPOXIDES USING ORGANOALUMINUM REAGENT

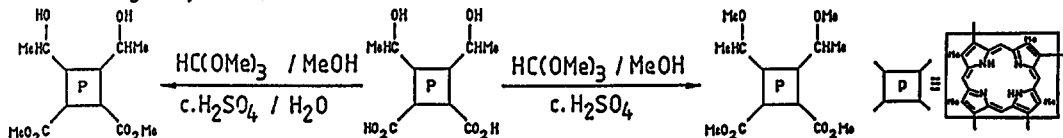
Yuji Naruse, Toru Esaki, and Hisashi Yamamoto*
Department of Applied Chemistry, Nagoya University,
NAGOYA, 464 JAPAN



A FACILE PORPHYRIN ESTERIFICATION/ETHERIFICATION PROCEDURE

Christopher J. Byrne and A. David Ward*
Department of Organic Chemistry, University of Adelaide, P.O. Box 498, South Australia, 5001.

1-Hydroxyethyl and carboxylic acid containing porphyrins can be rapidly esterified or etherified/etherified in good yields.

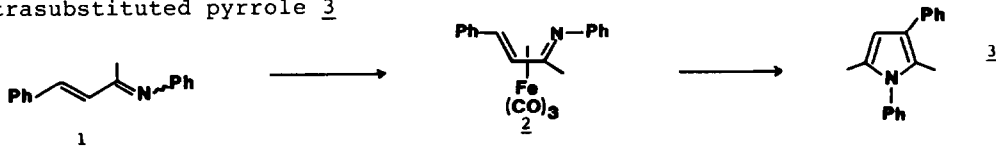


Tetrahedron Lett. 29, 1425 (1988)

PYRROLE FORMATION FROM A (1-AZABUTADIENE)-
TRICARBONYL(O) COMPLEX

Timothy N. Danks and Susan E. Thomas
Department of Chemistry, University of Warwick, Coventry CV4 7AL, England

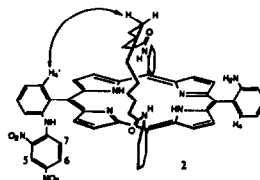
Complex **2** reacts smoothly with methyl-lithium to give the 1,2,3,5-tetrasubstituted pyrrole **3**



APPLICATION OF NUCLEAR OVERHAUSER ENHANCEMENT TECHNIQUES TO THE STRUCTURAL CHARACTERISATION OF "STRAPPED" PORPHYRINS

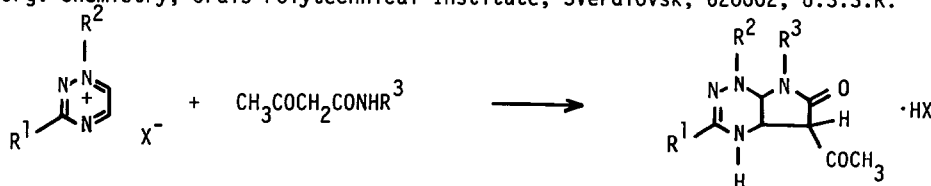
Patrick Perlmutter*, Mark Rose and Philip Shehan,
Chemistry Department, Monash University,
Clayton, 3168, Victoria, Australia

Application of NOE techniques has enabled the structures of various atropisomeric "strapped" tetraarylporphyrins, e.g. 2, to be unambiguously defined.



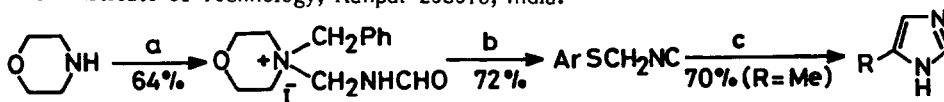
CYCLIZATION OF 1,2,4-TRIAZINIUM SALTS WITH BIFUNCTIONAL NUCLEOPHILES - A NEW ROUTE TO CONDENSED 1,2,4-TRIAZINES

S.G. Alexeev, V.N. Charushin, O.N. Chupakhin* and G.G. Alexandrov
Lab. Org. Chemistry, Urals Polytechnical Institute, Sverdlovsk, 620002, U.S.S.R.



A CONVENIENT SYNTHESIS OF 2-THIONAPHTHYLMETHYL ISOCYANIDE : A USEFUL REAGENT FOR METHYL ISOCYANIDE TRANSFER

S. Ranganathan and W.P. Singh, Department of Chemistry
Indian Institute of Technology, Kanpur 208016, India.



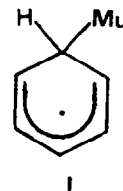
a. i. formalin, formamide
ii. benzyl iodide, chloroform

b. i. 2-thionaphthol,
Et₃N, PhH
ii. Ph₃P, CCl₄, Et₃N, CHCl₃

c. i. n-BuLi, -78°C, RCN, THF
ii. W-6 Ni, EtOH, rt, 5h

AN INVESTIGATION OF CAPTO-DATIVE INTERACTIONS IN MUONATED CYCLOHEXADIENYL RADICALS.

Christopher J. Rhodes,*
School of Chemistry, Thames Polytechnic, Wellington Street,
Woolwich, London. SE18 6PF., U.K.
Emil Roduner,
Physikalisch-Chemisches Institut der Universität Zurich,
CH-8057, Zurich, Switzerland.



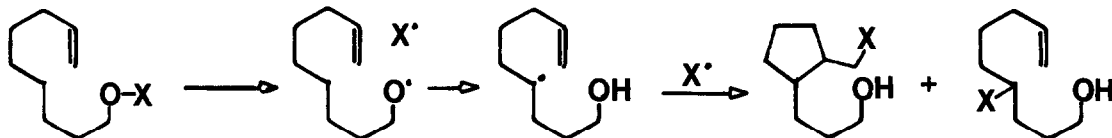
An investigation has been made of captodative substituent effects in muonated cyclohexadienyl radicals (I).

Tetrahedron Lett. 29,1441 (1988)

INTRAMOLECULAR CYCLIZATION OF ALKENYL RADICALS GENERATED
BY 1,5-HYDROGEN TRANSFER TO ALKOXY RADICALS

Živorad Čeković* and Dimitar Ilijev

Department of Chemistry, Faculty of Sciences, University of Belgrade, Studentski trg 16
11001 Belgrade, and Faculty of Pedagogy, University of Osijek, Osijek, Yugoslavia



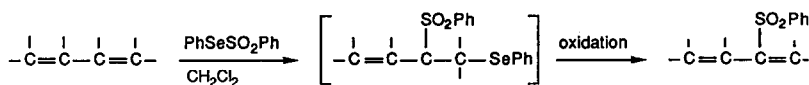
Tetrahedron Lett. 29,1445 (1988)

SELENOSULFONATION OF 1,3-DIENES: ONE-POT SYNTHESIS OF
2-(PHENYLSULFONYL)-1,3-DIENES

Jan-E. Bäckvall,* Carmen Najera, and Miguel Yus

Department of Organic Chemistry, University of Uppsala, Box 531, 751 21 Uppsala, Sweden

A one-pot synthesis of 2-(phenylsulfonyl)1,3-dienes was developed



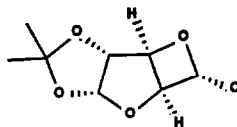
Tetrahedron Lett. 29,1449 (1988)

SYNTHESIS AND X-RAY CRYSTAL STRUCTURE
OF A STABLE α -CHLOROOXETANE

G.W.J.Fleet,^a J.C.Son,^a J.M.Peach^a and T.A.Hamor^b

^aDyson Perrins Laboratory, South Parks Road,
Oxford OX1 3QY ^bChemical Crystallography Laboratory,
9, Parks Road, Oxford

The Barton modification of the Hunsdiecker reaction is the key step in the preparation of 3,5-anhydro-5R-chloro-1,2-O-isopropylidene-xylofuranose (1), a stable α -chlorooxetane.



(1)

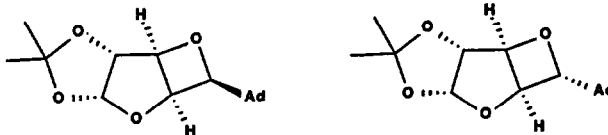
Tetrahedron Lett. 29,1451 (1988)

REACTION OF ADENINE WITH AN α -CHLOROOXETANE: AN
APPROACH TO THE SYNTHESIS OF OXETANE NUCLEOSIDES

G.W.J.Fleet,^a J.C.Son,^a K.Vogt,^a J.M.Peach^a and T.A.Hamor^b

^aDyson Perrins Laboratory, South Parks Road,
Oxford OX1 3QY ^bChemical Crystallography Laboratory,
9, Parks Road, Oxford

Nucleophilic displacement of chloride by adenine from a stable α -chlorooxetane, gives the epimeric oxetane nucleosides analogues (1) and (2).



(1)

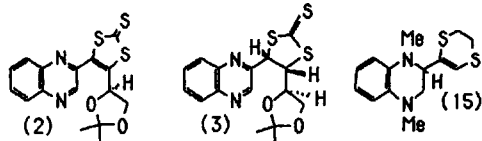
(Ad = Adenine)

(3)

Tetrahedron Lett. 29,1453(1988)

**SYNTHESIS OF 1-(QUINOXALIN-2-YL)-
ALKANE-1,2-DITHIOLS AND -ALKENE-1,2-DITHIOLS
OF RELEVANCE TO THE MOLYBDOENZYMES COFACTOR, Moco**

Lesley Larsen, David J. Rowe, C. David Garner, and John A. Joule*
Chemistry Department, Manchester University, Manchester M13 9PL, U.K.



Syntheses are described of quinoxalines (2) and (3), and tetrahydroquinoxaline (15), as models for the pterin which is believed to ligand molybdenum in the oxomolybdoenzymes cofactor, Moco.

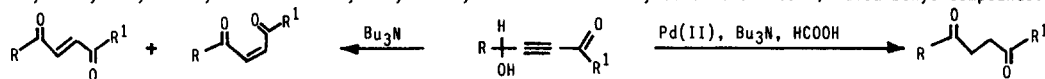
Tetrahedron Lett. 29,1456(1988)

**THE REACTION OF ALKYL 4-HYDROXY-2-ALKYNOATES AND 4-HYDROXY-2-ALKYN-1-
-ONES WITH PALLADIUM TRIBUTYLAMMONIUM FORMATE AND WITH TRIBUTYLAMINE:
PREPARATION OF 1,4-DICARBONYL COMPOUNDS.**

A. Arcadi^a, S. Cacchi^b, F. Marinelli^a, D. Misi^b

a) Dip. Chimica, Ing. Chimica e Materiali, Università degli Studi, Via Assergi 4, 67100 L'Aquila (Italy); b) Dip. Studi Chimica e Tecn. delle Sostanze Biologicamente Attive, Università "La Sapienza", P.le A. Moro 5, 00185 Roma (Italy)

Alkyl 4-hydroxy-2-alkynoates and 4-hydroxy-2-alkyn-1-ones are easily converted into 1,4-dicarbonyl compounds.

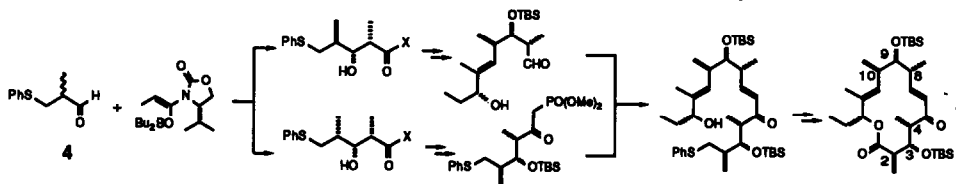
Tetrahedron Lett. 29,1461(1988)

STUDIES IN MACROLIDE SYNTHESIS:

A CONCISE ASYMMETRIC SYNTHESIS OF A MACROLIDE INTERMEDIATE FOR THE ERYTHRONOLIDES.

Ian Paterson,* David D. P. Laffan, David J. Rawson, University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK.

The enantiomerically-pure 14-membered ring macrolide 1 is prepared in 14 steps from the racemic aldehyde 4.

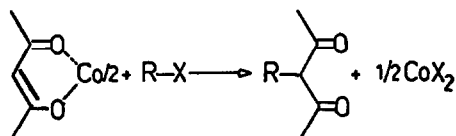
Tetrahedron Lett. 29,1465(1988)

**A DUAL MECHANISTIC PATHWAY IN THE ALKYLATION OF PENTANE-
-2,4-DIONE THROUGH ITS Co(II) COMPLEX**

J. Marquet, M. Moreno-Mañas, P. Pacheco, A. Vallribera

Dep. de Química, Universidad Autónoma de Barcelona.
Bellaterra. 08193-Barcelona. Spain.

Co(II) induces a non radical chain mechanism in the title alkylation. An electron transfer initiates the process. A mechanistic proposal is made based on the study of galvinoxyl and externally added Co effects and in the isolation of radical dimers.



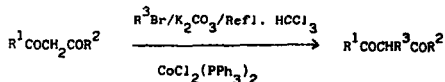
Tetrahedron Lett. 29, 1469 (1988)

**COBALT(II) CHLORIDE BISTRIPHENYLPHOSPHINE CATALYZED
ALKYLATION OF β -DICARBONYL COMPOUNDS**

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The alkylation of several β -dicarbonyl compounds
with sensitive alkyl halides in the indicated con-
ditions is accelerated by the presence of $\text{CoCl}_2(\text{Ph}_3\text{P})_2$



**A HIGHLY SELECTIVE METHOD FOR THE SYNTHESIS
OF PHENYLACETALDEHYDE**

Tetrahedron Lett. 29, 1471 (1988)

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Phenylacetaldehyde is synthesized
in gas phase using H-ZSM-5.
Silicalite and silice gels as catalyts

