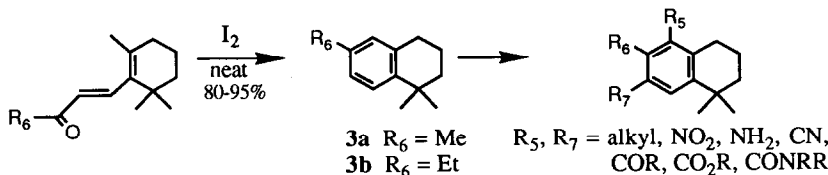


Tetrahedron, 1993, 49, 2577

Selective Syntheses of Substituted 6-Alkyl-1,1-dimethyl-1,2,3,4-tetrahydronaphthalenes

John J. Parlow

Monsanto Company, The Agricultural Group, 800 N. Lindbergh Blvd., St. Louis Mo. 63167



β -ionone and 1-methyl- β -ionone is cyclized to 6-alkyl-1,1-dimethyl-1,2,3,4-tetrahydronaphthalene (3). Selective derivatization at the 5- and/or 7-positions of 6-alkyl-1,1-dimethyl-1,2,3,4-tetrahydronaphthalenes was achieved by nitration, acylation, and reduction.

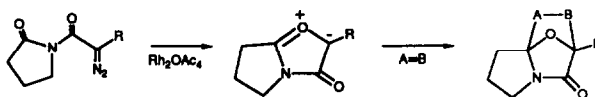
Tetrahedron, 1993, 49, 2589

BIMOLECULAR CYCLOADDITION REACTIONS OF ISOMÜCHNONES DERIVED FROM THE RHODIUM(II) CATALYZED CYCLIZATION OF DIAZO PYRROLIDINONES

Albert Padwa* and Donald L. Hertzog

Department of Chemistry, Emory University Atlanta, GA 30322 USA

Rhodium(II) catalysis of diazo substituted pyrrolidinones results in isomüchnone dipole formation. Subsequent cycloaddition across the pi-bond of an added dipolarophile affords 1,3-dipolar cycloadducts in high yield.



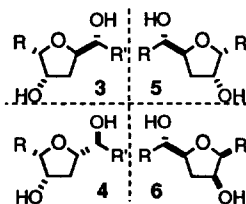
Tetrahedron, 1993, 49, 2601

STEREOCHEMICAL ASPECTS OF CYTOSOLIC EPOXIDE HYDROLASE HYDRATION OF METHYL DIEPOXYSTEARATES

Babak Borhan[†], Jaffar Nourooz-Zadeh[‡], Tamon Uematsu[‡], Bruce D. Hammock[‡], and Mark J. Kurth[‡]

[†]Department of Chemistry, [‡]Departments of Entomology and Environmental Toxicology, University of California, Davis, CA 95616

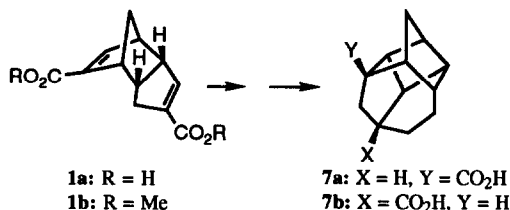
Hydration of methyl diepoxystearate (2) at physiological *cytosolic epoxide hydrolase* (CEH) concentration produces four tetrahydrofuran diol products (3-6). These same four products are obtained in the acid-catalyzed hydration of 2. Spectroscopic studies, primarily EI mass spectrometry and difference spectrum NOE, are reported which establish the regio- and stereoselectivity of 2 \rightarrow 3-6 (MS differentiating 3/4 from 5/6 and NOE differentiating 3/5 from 4/6).



**Thiele's Ester as a Reagent in Organic Synthesis.
Preparation of Pentacyclo[5.4.0.0^{2,5}.0^{3,10}.0^{4,8}]undec-
ane-10-carboxylic Acid**

Alan P. Marchand*, Dalian Zhao, Teng-Ko Ngooi,
and V. Vidyasagar, *Department of Chemistry,
University of North Texas Denton, Texas 76203-0058*

William H. Watson* and Ram P. Kashyap
*Department of Chemistry, Texas Christian University,
Fort Worth, Texas 76129*



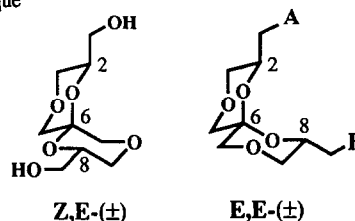
2- AND 8- FUNCTIONALIZED 1,4,7,10-TETRAOXASPIRO[5.5]UNDECANES.

I. SYNTHESIS OF (±)-E,E AND (±)-Z,E STRUCTURES

Marielle Lemaire, Georges Jeminet*, Jean-Gabriel Gourcy and Gérard Dauphin

Université Blaise Pascal, U.R.A. 485 du CNRS, Laboratoire de Chimie Organique Biologique
63177 Aubière Cedex, France

Synthesis of title compounds has been achieved
starting from (±)-diisopropylidene triglycerol

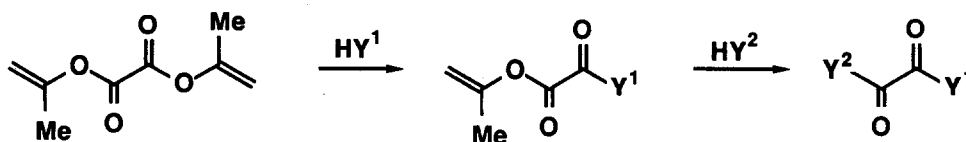


**NOVEL SYNTHESIS OF OXAMIDES, OXAMATES
AND OXALATES FROM DIISOPROPENYL OXALATE**

Muriel Neveux, Christian Bruneau, Serge Lécolier†, Pierre H. Dixneuf *

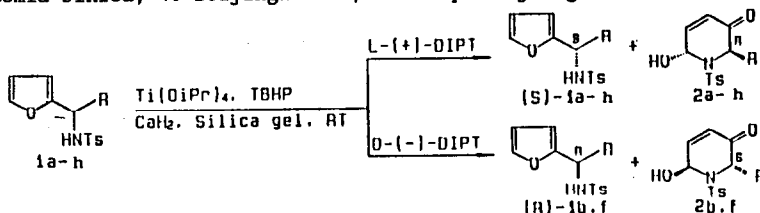
Laboratoire de Chimie de Coordination Organique, Unité de Recherche Associée au CNRS 415, Campus de Beaulieu, Université de
Rennes, 35042 Rennes (France); † SNPE Centre de Recherche du Bouchet, BP2, 91710 Vert Le Petit (France)

Diisopropenyl oxalate is a convenient acylating reagent for the selective access to α-dicarbonyl compounds under mild conditions.



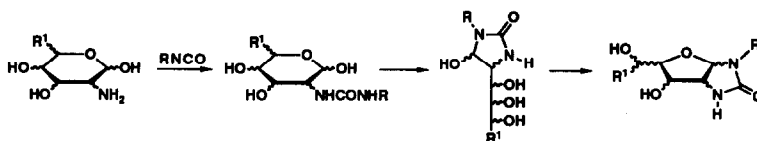
AN EFFICIENT PREPARATION OF OPTICALLY ACTIVE α -FURFURYL AMIDE BY KINETIC RESOLUTION USING THE MODIFIED SHARPLESS ASYMMETRIC EPOXIDATION REAGENTS

Wei-Shan Zhou* Zhi-Hui Lu and Zhi-Min Wang** Shanghai Institute of Organic Chemistry, Academia Sinica, 345 Lingling Lu, Shanghai 200032, China. + Xinjiang Institute of Chemistry, Academia Sinica, 40 Beijingnan Lu, Wulumuqi Xinjiang 830011, China.



THE REACTION OF 2-AMINO-2-DEOXYHEXOPYRANOSES WITH ISOCYANATES. SYNTHESIS OF UREAS AND THEIR TRANSFORMATION INTO HETEROCYCLIC DERIVATIVES.

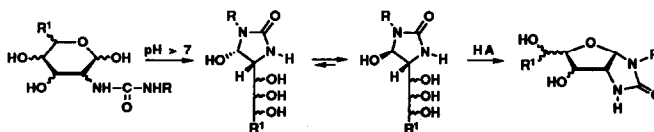
Martín Avalos, Reyes Babiano, Pedro Cintas, José L. Jiménez, Juan C. Palacios, and Concepción Valencia. Departamento de Química Orgánica. Facultad de Ciencias. Universidad de Extremadura. 06071-Badajoz, Spain



Reactions of 2-amino-2-deoxyglycopyranoses with aryl isocyanates are pH-dependent and furanoid bicyclics are obtained at acidic pH values. Ureas and monocyclic structures appear to be the true intermediates of the reaction. Also, the first *cis*-fused glycopyrano[2,1-*d*]imidazolidin-2-ones have been prepared.

ON THE MECHANISM OF FORMATION OF GLYCOFURANO[2,1-*d*]IMIDAZOLIDIN-2-ONES. REACTION OF 2-AMINO-2-DEOXYHEPTOPYRANOSSES WITH ISOCYANATES.

Martín Avalos, Reyes Babiano, Pedro Cintas, José L. Jiménez, Juan C. Palacios, and Concepción Valencia. Departamento de Química Orgánica. Facultad de Ciencias. Universidad de Extremadura. 06071-Badajoz, Spain



Ureido derivatives cyclise under basic conditions to a mixture of *cis*- and *trans*-5-hydroxyimidazolidin-2-ones. Their isomerisation at acid pH affords isomers with a *trans* disposition between the substituents at C-4 and C-5 of the heterocycle. Consequently, the stereocontrolled ring closure provides exclusively *cis*-fused glycofuranose systems.

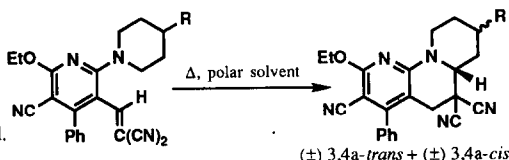
SELECTIVITY IN THE THERMAL CYCLIZATION OF 2-PIPERIDINO-3-VINYLPYRIDINES

Vicente Ojea, Miguel A. Maestro, José M^a Quintela*

Departamento de Química Fundamental e Industrial, Universidade da Coruña.

Campus da Zapateira, E-15071 A Coruña, Spain.

New achiral 2-(4-substituted-piperidino)-3-vinylpyridines undergo stereoselective isomerization to pyrido [1,2-*a*][1,8]-naphthyridines. The relative configuration of the products has been established. A mechanistic approximation to the diastereoselectivity based on molecular mechanics is put forward.



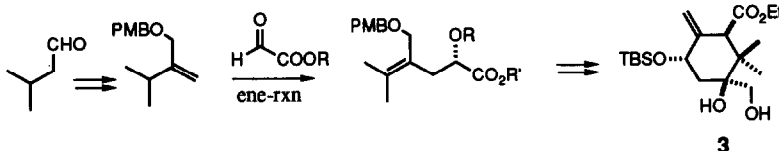
NEW SYNTHESIS OF A TAXOL A-RING SYSTEM

Magnus Polla^{a)} and Torbjörn Frejd^{b)}

a) Organic Chemistry 2, Chemical Center, Lund Institute of Technology,

P.O. Box 124, S-221 00 Lund, Sweden and b) Department of Organic Chemistry, Umeå University, S-901 87, Umeå, Sweden

The optically active taxol A-ring unit **3** was synthesized in 11 steps from 2-isopropyl-2-propenol. The stereogenic centers were introduced via the asymmetric glyoxylate-ene reaction and the Sharpless asymmetric epoxidation reaction.



AN UNUSUAL ETHER GLYCOLIPID FROM THE SENEGALESE SPONGE

TRIKENTRION LOEVE CARTER

Valeria Costantino, Ernesto Fattorusso, Alfonso Mangoni

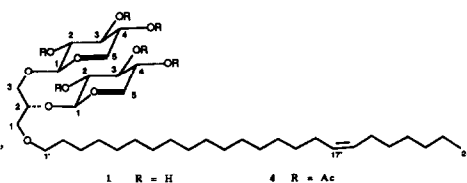
Dipartimento di Chimica delle sostanze Naturali, Università degli Studi di Napoli "Federico II", Via D. Montesano 49, 80131 Napoli, Italy.

Maurice Aknin, Aliou Fall, Abdoulaye Samb

Département de Chimie, Faculté des Sciences, U.C.A.D., Dakar, Senegal

Joseph Miralles

Département de Biologie Végétale, Faculté des Sciences, U.C.A.D., Dakar, Senegal

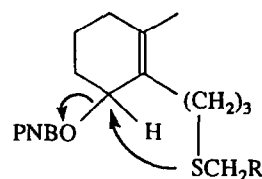


A unique ether glycolipid, **1**, has been isolated from the Senegalese sponge *Trikenirion loeve* Carter, and its structure determined by chemical degradation and spectroscopic (mainly NMR) analysis of its acetyl derivative **4**.

SEARCH FOR A MAXIMAL NEIGHBORING GROUP PARTICIPATION IN SOLVOLYSES OF ALLYLIC SUBSTRATES. ETHANOLYSIS OF 2-(ω -ALKYLTHIOALKYL)-3-METHYL-2-CYCLOHEXYNYL p-NITROBENZOATES.

Branko S. Jursic,* Mladen Ladika, and Dionis E. Sunko
Laboratory of Organic Chemistry, Faculty of Science, University of Zagreb
Strossmayerov trg 14, 41000 Zagreb, Croatia.

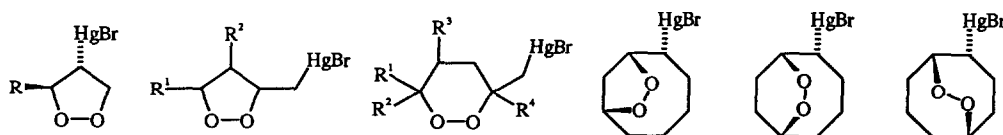
Allylic substrates with alkylthio-group as an internal nucleophile can solvolyze in 80% EtOH with a pronounced neighboring group participation.



OXYMETALLATION. PART 24. PREPARATION OF CYCLIC PEROXIDES BY CYCLOPEROXYMERCURIATION OF UNSATURATED HYDROPEROXIDES

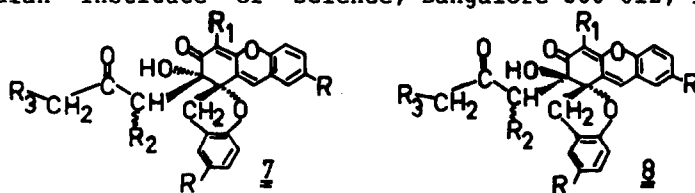
A.J. Bloodworth, R.J. Curtis, M.D. Spencer and N.A. Tallant
Chemistry Department, University College London, 20 Gordon Street, London WC1H 0AJ, U.K.

Competing cyclisations,; stereoselectivities; 19 new mercuriated peroxides of the types shown; five new 1,2-dioxanes and one new 1,2-dioxolane by NaBH_4 reduction.



ONE POT SYNTHESIS OF POLYCYCLIC OXYGEN AROMATICS. PART IV: REACTION OF THP ETHER OF 2-BROMOMETHYL PHENOLS.

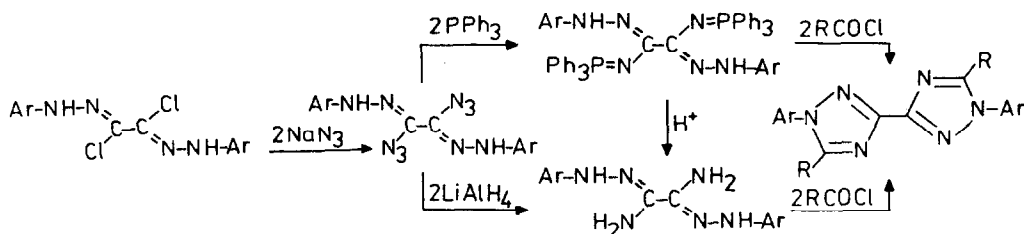
Tirumalai R. Kasturi, Asish B. Mandal, Bangalore G. Sumana and Betagiri Rajasekhar; Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, INDIA.



Generation of o-quinone methide under mild conditions and synthesis of polycyclic oxygen aromatics 7 and 8 are described.

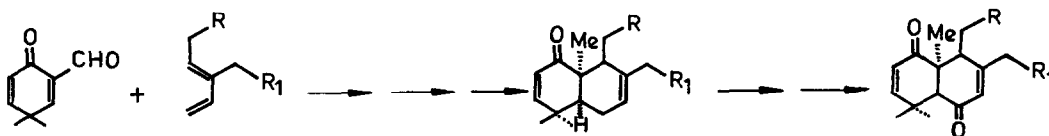
Facile Syntheses of Bi-1,2,4-triazoles via Hydrazonyl Halides

Ahmad S. Shawali*, Ahmad M. Farag, Hassan A. Albar and Kamal M. Dawood
Department of Chemistry, Faculty of Science, University of Cairo, Giza, Egypt



CONVENIENT SYNTHESIS OF DECALIN SYSTEMS OF BIOACTIVE TERPENOIDS.

Vinayak K. Gore, Shailesh R. Desai, T. Mayelvaganan, R. Padmakumar, Shreeshaikumar B. Hadimani and Sujata V. Bhat*
Department of Chemistry, Indian Institute of Technology, Bombay-76, India
General Diels-Alder, approach towards synthesis of bioactive terpene analogues



RADICAL CYCLIZATION TO DIBENZO[de,g]CHROMANONES.

A NEW SYNTHESIS OF PHENANTHRENE COMPOUNDS.

Juan C. Estévez, M. Carmen Villaverde, Ramón J. Estévez and Luis Castedo*

Departamento de Química Orgánica, Facultad de Química, Universidade de Compostela, 15706 Santiago de Compostela (Spain).

Radical cyclization of bromobenzylisochromanones to the novel compounds dibenzo[de,g]chromanones is described. Opening of the lactone ring in the latter compounds allows the preparation of phenanthrene alkaloids and 1-phenanthrenylacetic acids.

