

GRAPHICAL ABSTRACTS

Tetrahedron, 1992, 48, 5219

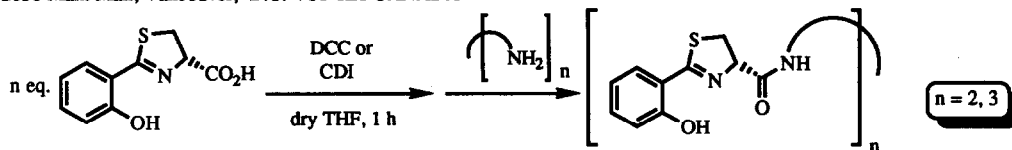
Design and Synthesis of Multidentate

2-(2'-Hydroxyphenyl)-2-thiazolines for Biomedical Application

H. R. Hoveyda, V. Karunaratne, C. Orvig*

Dept. of Chemistry, University of British Columbia

2036 Main Mall, Vancouver, B.C. V6T 1Z1 CANADA

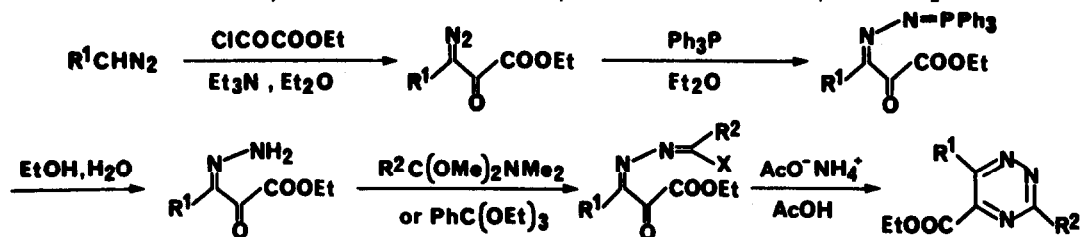


Tetrahedron, 1992, 48, 5227

SYNTHESIS of 1,2,4-TRIAZINES - XIV

REGIOSELECTIVE SYNTHESIS of ETHYL 1,2,4-TRIAZINE-5-CARBOXYLATES

T. Ohsumi and H. Neunhoeffer; Institut für Organische Chemie der Technischen Hochschule Darmstadt, Petersenstrasse 22, D-6100 Darmstadt, Germany



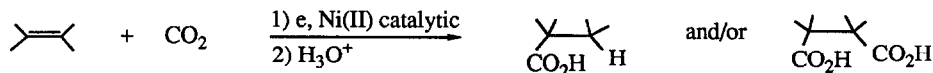
Tetrahedron, 1992, 48, 5235

ELECTROCHEMICAL INCORPORATION OF CARBON DIOXIDE INTO ALKENES BY NICKEL COMPLEXES

Sylvie Dérien^a, Jean-Claude Clinet^b, Elisabet Duñach^{a*}, Jacques Périchon^a

a) Laboratoire d'Electrochimie, Catalyse et Synthèse Organique, C.N.R.S., UMR n°28, 94320 THIAIS (France)

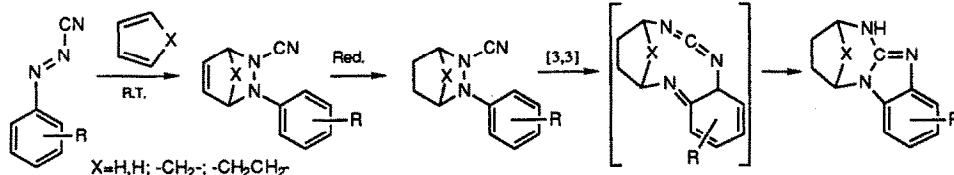
b) Institut de Chimie Moléculaire d'Orsay, Université Paris-Sud, 91405 ORSAY Cedex (France)



Catalyst precursor : Ni(bipy)₃(BF₄)₂ or NiBr₂.dme + Me₂N(CH₂)₇N(Me)(CH₂)₂NMe₂

BENZIMIDAZOLO-DIAZEPINES FROM 1,3-DIENES AND ARENE DIAZOCYANIDES THROUGH A 1,3,4-TRI-AZA-COPE REARRANGEMENT.

D. Rousselle, T. Ryckmans and H. G. Viehe*, Laboratoire de chimie organique, Université Catholique de Louvain 1, Place Louis Pasteur, B-1348 Louvain-la-Neuve, Belgium.

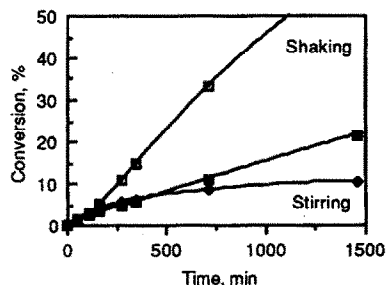


Mixing Conditions for Enzyme Catalysis in Organic Solvents

Lise Kvittingen,^{a*} Birte Sjørnes,^a Peter Halling^b and Thorleif Anthonen^a

^aDepartment of Chemistry, The University of Trondheim, N-7055 Trondheim, Norway

^bDepartment of Bioscience and Biotechnology, University of Strathclyde, Glasgow G1 1XW, Scotland, UK

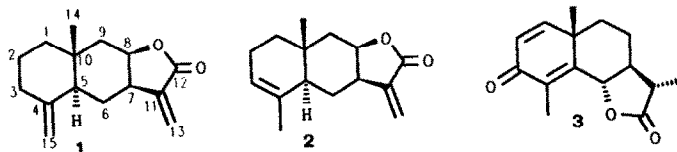


SYNTHESIS OF (+)-ISOALANTOLACTONE AND (+)-ISOALLOALANTOLACTONE FROM (-)-SANTONIN

Gonzalo Blay, Luz Cardona, Begoña García, José R. Pedro* and Angel Serrano

Departament de Química Orgànica, Facultat de Química, Universitat de València, 46100-Burjassot, Valencia, Spain

The chemical conversion of (-)-santonin (3) into (+)-isoalantolactone (1) and (+)-isoalloalantolactone (2) are reported. This synthesis involves the functionality transfer from C₆ to C₈ in eudesmane framework.

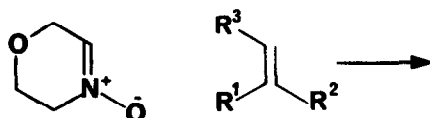


1,3-DIPOLAR CYCLOADDITION REACTIONS OF A HETEROCYCLIC NITRONE

Sk. Asrof Ali* and Hasan A. Almuallam.

Chemistry Dept., King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia.

A study of the kinetics and regio- and stereo-chemical behaviour of the addition reactions of 5,6-dihydro-1,4-oxazine 4-oxide with several mono- and di-substituted alkenes.

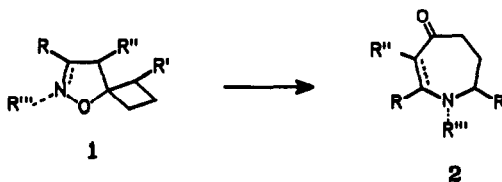


REARRANGEMENT OF ISOXAZOLINE-5-SPIRO DERIVATIVES. PART 7. THERMAL REARRANGEMENT OF 4,5-DIHYDRO AND TETRAHYDRO-ISOXAZOLE-5-SPIROCYCLOBUTANES TO AZEPIN-4-ONE DERIVATIVES

Andrea Goti,* Alberto Brandi, Francesco De Sario, and Antonio Guarna

Centro di Studio sulla Chimica e la Struttura dei Composti Eterociclici e loro Applicazioni, C. N. R., Dipartimento di Chimica Organica "U. Schiff", Università di Firenze, via G. Capponi 9, I-50121 Firenze, Italy

1,3-Dipolar cycloaddition of nitrile oxides and nitrones to alkylidenecyclobutanes affords the corresponding 5-spirocyclobutane isoxazole derivatives **1**, which give azepin-4-ones **2** by thermal rearrangement in FVT conditions. The nitrile oxide cycloadducts give also isomeric 1-alkenyl-2-pyrrolidinones as side-products.

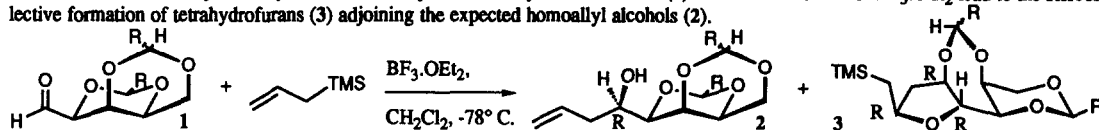


STERESELECTIVE FORMATION OF TETRAHYDROFURANS DURING ALLYLTRIMETHYLSILANE ADDITIONS TO L-XYLOSE DERIVATIVES.

Ronald A. Veloo, Martin. J. Wanner and Gerrit-Jan Koomen*.

Organic Chemistry Laboratory, University of Amsterdam, Nieuwe Achtergracht 129, 1018 WS Amsterdam, The Netherlands.

Addition reactions of allyltrimethylsilane to acetal-protected L-xylose derivatives (**1**) under the influence of $\text{BF}_3 \cdot \text{OEt}_2$ lead to the stereoselective formation of tetrahydrofurans (**3**) adjoining the expected homoallyl alcohols (**2**).

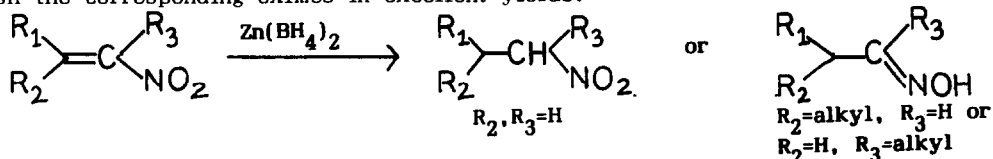


REDUCTION OF CONJUGATED NITROALKENES WITH ZINC BOROHYDRIDE. A MILD METHOD FOR CONVERTING MONO-SUBSTITUTED NITROALKENES TO NITROALKANES AND DISUBSTITUTED ONES TO OXIMES

Brindaban C. Ranu* and Rupak Chakraborty

Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta - 700 032, India.

Mono- β -substituted conjugated nitroalkenes are readily reduced by zinc borohydride in 1,2-dimethoxyethane to the corresponding nitroalkanes, whereas the disubstituted ones furnish the corresponding oximes in excellent yields.

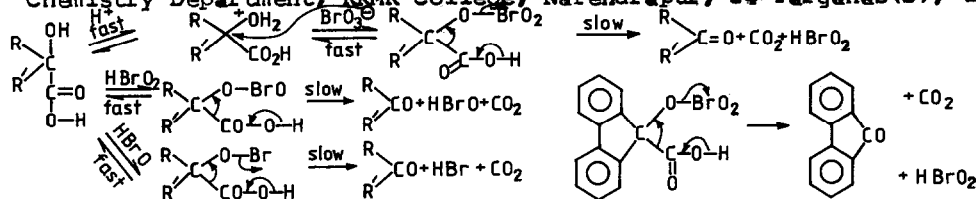


OXIDATIVE BEHAVIOURS AND RELATIVE REACTIVITIES OF SOME α -HYDROXY ACIDS TOWARDS BROMATE ION IN HYDROCHLORIC ACID MEDIUM.

Kalyan Kali Sen Gupta^a, Amalendu Banerjee^a and Hrishikesh Chatterjee^b.

^aChemistry Department, Jadavpur University, Calcutta-700 032, India.

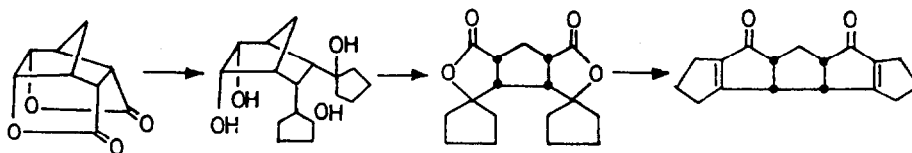
^bChemistry Department, RKMR College, Narendrapur, 24-Parganas(S), India.



A General Methodology for the Synthesis of Linearly Fused Polyquinanes, Y.V. Suryanarayana

Murthy and C.Narayana Pillai, Department of chemistry, Indian Institute of Technology, Madras 600 036, India.

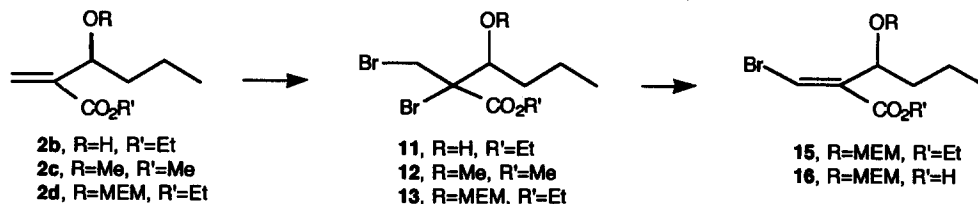
A methodology for the synthesis of polyquinanes via spirolactones has been developed.



BROMINE ADDITION TO α -(1-HYDROXYALKYL)- AND α -(1-ALKOXYALKYL)- α,β -UNSATURATED ESTERS:

AN APPROACH TO HYDROXYFIMBROLIDE AND BROMOBECKERELIDE.

Angel Calderón, Josep Font,* and Pedro de March*; Unitat de Química Orgànica. Universitat Autònoma de Barcelona. 08193 Bellaterra. Spain.
Conventional ionic bromination of electron-poor olefins, 2-(1-hydroxyalkyl)- and 2-(1-alkoxyalkyl)propenoates, **2b-d**, and (*E*)-2-(1-hydroxyethyl)-2-butenolate, proceeds with yields higher than 80%. The synthesis of bromoacrylates **15** and **16** is also described.

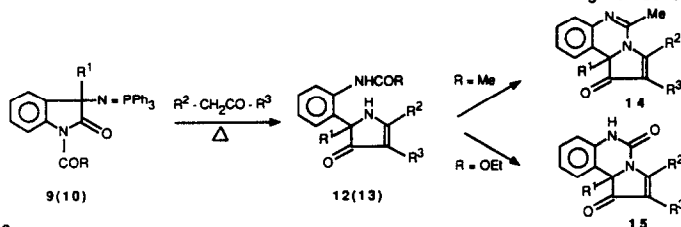


SYNTHESIS OF PYRROLO[1,2-c]QUINAZOLINE DERIVATIVES

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^a Dipartimento di Chimica Organica e Industriale, Università di Milano, via Golgi 19 - 20133 Milano

^b CNR Centro Studio delle Relazioni tra Struttura e Reattività Chimica, via Golgi 19 - 20133 Milano



Δ^2 -Pyrron-4-ones **12** and **13**, prepared from iminophosphorane **9** and **10**, were converted into the corresponding pyrrolo[1,2-c]quinazoline derivatives **14** and **15**.

STRUCTURE OF THE "HETEROCYST GLYCOLIPIDS" OF THE MARINE CYANOBACTERIUM *NODULARIA HARVEYANA*

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Dipartimento di Fisica, Università di Salerno, 84081 Baronissi (SA) - Italy
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Istituto per la Chimica M.I.B. - CNR, Via Toiano 6, 80072 Arco Felice (NA) - Italy

