

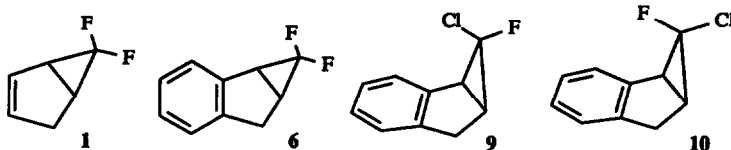
GRAPHICAL ABSTRACTS

Tetrahedron, 1992, 48, 9649

THE THERMAL CONVERSIONS OF 6,6-DIFLUOROBICYCLO[3.1.0]HEX-2-ENES TO FLUOROBENZENES. AN INTERESTING DICHOTOMY OF MECHANISMS

W. R. Dolbier, Jr., J. J. Keaffaber, C. R. Burkholder, H. Koroniak and J. Pradhan
University of Florida, Department of Chemistry, Gainesville, FL 32611-2046

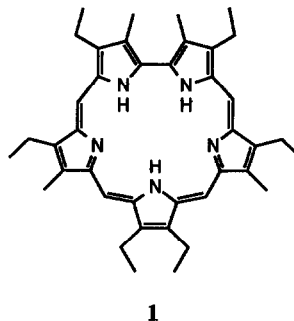
The thermal dehydrofluorinative aromatizations of these molecules were studied:



Tetrahedron, 1992, 48, 9661

Sapphyrins and Heterosapphyrins.

Jonathan L. Sessler*, Mike Cyr, and Anthony K. Burrell
Department of Chemistry and Biochemistry,
University of Texas, Austin, Texas 78712.



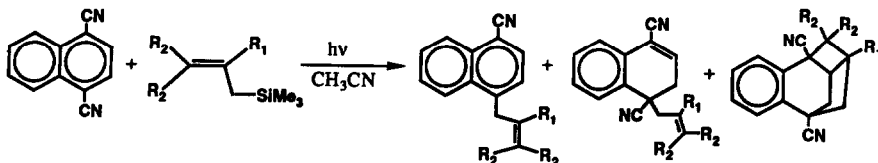
An improved synthesis of sapphyrin (1), is reported.
Also presented are new synthetic procedures for the
formation of several heteroatom substituted sapphyrins.

Tetrahedron, 1992, 48, 9673

**Photochemical Reactions of 1,4-Dicyanonaphthalene with Allylic Silanes:
Control of Reaction Modes by Use of Solvent and Additive Effects**

Kazuhiro Mizuno,** Toshinori Nishiyama,^a Kiyotaro Terasaka,^a Masahide Yasuda,^b
Kensuke Shima,^b and Yoshio Otsuji**^a

a) Department of Applied Chemistry, College of Engineering, University of Osaka Prefecture, Sakai, Osaka 593, Japan; b) Department of Industrial Chemistry, Faculty of Engineering, Miyazaki University, Gakuen-Kibanadai, Miyazaki 889-21, Japan

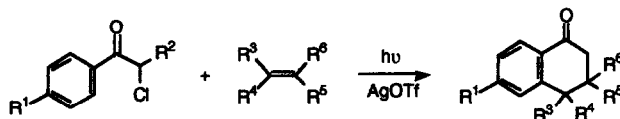


Tetrahedron, 1992, 48, 9687

Metal-catalyzed Organic Photoreactions. Photoreaction of 2-Chloroacetophenone Derivatives with Olefins in the Presence of Silver Trifluoromethanesulfonate

Seung-Hun Oh, Kunio Tamura, and Tadashi Sato*

Department of Applied Chemistry, Waseda University, Ookubo 3, Shinjuku-ku, Tokyo 169, Japan



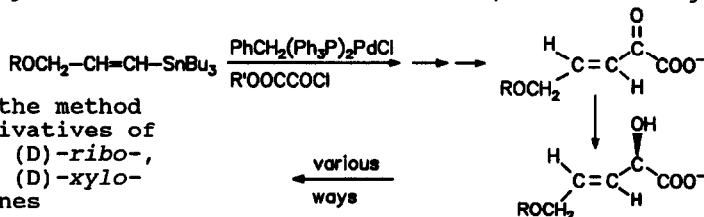
UV-irradiation of 2-chloroacetophenones and olefins in the presence of silver triflate affords naphthalenone derivatives with high regio and stereoselectivity and chemical yields.

Tetrahedron, 1992, 48, 9695

5-METHOXY-PENTONO-1,4-LACTONES FROM (R)-2-HYDROXY-5-METHOXY-3-PENTENOIC ACID OBTAINED BY BIOREDUCTION OF THE 2-OXO-ACID

D. Bonnaffé, H. Simon

Lehrstuhl Organische Chemie und Biochemie TU München, D-8046 Garching

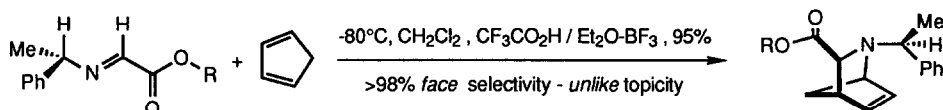


Depending on the method 5-methoxy derivatives of (L)-arabino-, (D)-ribo-, (L)-lyxo- and (D)-xylo-pentono-lactones

Tetrahedron, 1992, 48, 9707

REACTION D'AZA-DIELS-ALDER DIASTEREOSELECTIVE : UTILISATION DE LA 1-PHENYLETHYL IMINE DE GLYOXYLATE D'ALKYLE POUR LA SYNTHÈSE DE DERIVÉS D'α-AMINO ACIDES CYCLIQUES

Hervé Abraham et Lucien Stella*, *Laboratoire de Chimie Organique B - Associé au CNRS, Faculté des Sciences de Saint-Jérôme, Université d'Aix-Marseille III, Avenue Normandie-Niemen - 13397 Marseille Cédex 13 - France*



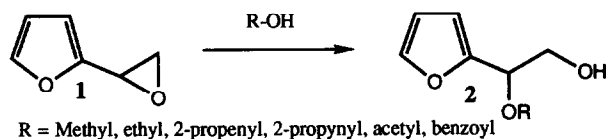
Diastereoselection is very high (>98%) with cyclopentadiene but lower with other 1,3-dienes (cyclic and acyclic).

Tetrahedron, 1992, 48, 9719

REGIOSELECTIVE, UNCATALYZED ADDITIONS OF ALCOHOLS AND CARBOXYLIC ACIDS TO 2-FURYLOXIRANE. SYNTHETIC APPLICATIONS

B. Alcaide, C. Biurrún, E. Borredon, and J. Plumet.* Universidad Complutense, Facultad de Química, Departamento de Química Orgánica, Madrid (Spain).

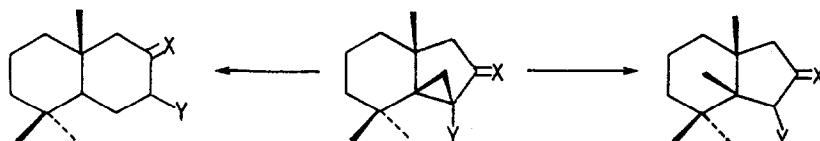
Nucleophilic non-catalyzed additions of alcohols and carboxylic acids to 2-furyloxirane are reported. The intramolecular Diels-Alder reactions of one addition product are also described.



Tetrahedron, 1992, 48, 9725

REGIOCONTROL IN THE CYCLOPROPANE RING CLEAVAGE OF TRICYCLO[4.4.0.0^{1,3}]DECANES TO HYDRINDANE AND DECALIN SYSTEMS

A. Srikrishna, K. Krishnan and C.V. Yelamaggad
Department of Organic Chemistry, Indian Institute of Science
Bangalore - 560 012, INDIA.



Tetrahedron, 1992, 48, 9735

X=Y-ZH SYSTEMS AS POTENTIAL 1,3-DIPOLES. PART 36¹

1,5-ELECTROCYCLISATION PROCESSES VIA OXIDATION OF

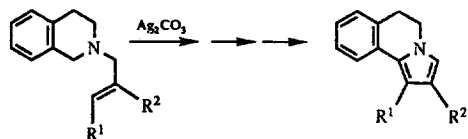
TERTIARY AMINES. PYRROLO-DIHYDROISOQUINOLINES AND -DIHYDRO- β -CARBOLINES.

Ronald Grigg^{a,*}, Peter Myers,^b Anoma Somasunderam^a and Visuvanathar Sridharan.^a

a. School of Chemistry, Leeds University, Leeds LS2 9JT.

b. Glaxo Research Institute, Research Triangle Park, North Carolina 27709.

A range of tertiary N-allylamines derived from 1,2,3,4-tetrahydroisoquinoline undergo oxidative cyclisation, induced by Ag₂CO₃, to give pyrrolo-dihydro isoquinolines in moderate to good yield.

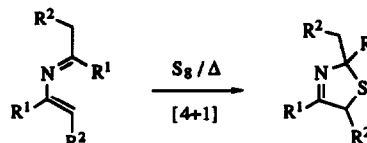


Tetrahedron, 1992, 48, 9745

SYNTHESIS AND ¹H-NMR CONFIGURATIONAL STUDY OF Δ³-THIAZOLINES FROM 2-AZA-1,3-DIENES

José Barluenga^{*a}, Raquel Pérez Carlón^a, Elvira Peláez^a, Jesús Joglar^a, Fernando López Ortiz^a and Santos Fustero^{*b}

^aDepartamento de Química Organometálica, Facultad de Química, Universidad de Oviedo, 33012 Oviedo, Spain. ^bDepartamento de Química Orgánica, Facultad de Farmacia, Universidad de Valencia, 46010 Valencia, Spain



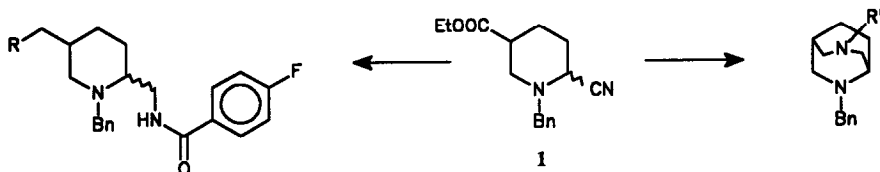
A [4+1] heterocyclization reaction of 2-aza-1,3-dienes with elemental sulphur giving Δ³-thiazolines is described. A ¹H-NMR study established the configuration of the diastereoisomeric mixture.

Tetrahedron, 1992, 48, 9753

MIMICKING OF ERGOT ALKALOIDS AND SYNTHETIC PIPERIDINE DRUGS BY 2,5-SUBSTITUTED PIPERIDINES DERIVED FROM CIS AND TRANS ETHYL 1-BENZYL-6-CYANO-3-PIPERIDINECARBOXYLATE.

Stefan Van den Branden, Frans Compennolle^{*} and Georges J. Hoornaert; Laboratorium voor Organische Synthese, K.U.Leuven, Celestijnenlaan 200F, B-3001 Leuven-Heverlee.

Compound 1 leads to pharmacologically interesting piperidines and 3,6-diazabicyclo[3.2.2]nonanes.



Tetrahedron, 1992, 48, 9767

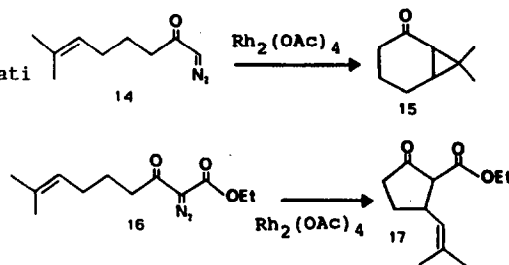
Rh₂(OAc)₄-MEDIATED DECOMPOSITION OF DIAZOCARBONYL

COMPOUNDS: A COMPARISON OF α-DIAZO-KETONES AND

α-DIAZO β-KETO ESTERS REACTIVITY.

P.Ceccherelli,^{*} M.Curini,^{*} M.C.Marcotullio, O.Rosati
Ist. di Chimica Organica, Fac. di Farmacia,
Università di Perugia, 06100 Perugia, Italy

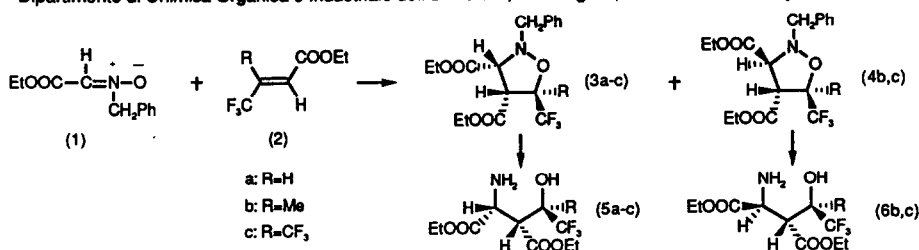
A comparative study on the reactivity of α-diazo ketones and α-diazo β-keto esters.



Tetrahedron, 1992, 48, 9775

A CYCLOADDITIVE ROUTE TO TRIFLUOROMETHYL-SUBSTITUTED AMINOALCOHOLS

Pierfrancesco Bravo,^a Luca Bruché,^a Giovanni Fronza,^a Gaetano Zecchi^b
^a C.N.R.- Centro di Studio per le Sostanze Organiche Naturali e Dipartimento di Chimica, Politecnico, Piazza Leonardo da Vinci 32, 20133 MILANO, Italy
^b Dipartimento di Chimica Organica e Industriale dell'Università, Via Golgi 19, 20133 MILANO, Italy.

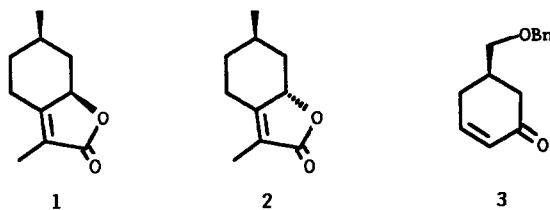


Tetrahedron, 1992, 48, 9789

TOTAL SYNTHESIS OF (-)-MINTLACTONE AND (+)-ISOMINTLACTONE

Miguel Carda^a and J. Alberto Marco^b

^a Universidad Jaume I, Castellón, Spain. ^b Universidad de Valencia, Spain.



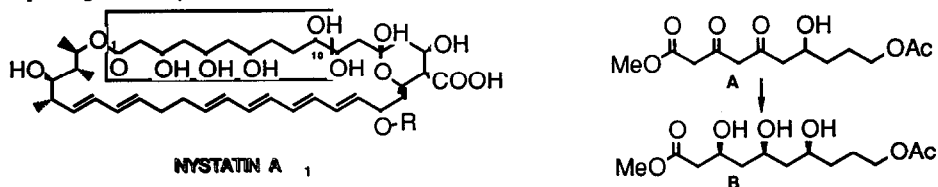
The naturally occurring menthane derivatives (-)-mintlactone 1 and (+)-isomintlactone 2 have been stereoselectively synthesized from the chiral enone 3.

Tetrahedron, 1992, 48, 9801

ITERATIVE DIASTEREOSELECTIVE REDUCTION OF HYDROXY DIKETOESTERS TO 1,3,5 SYN TRIOLS: SYNTHESIS OF C₁-C₁₀ FRAGMENT OF NYSTATIN A₁

Carlo Bonini*, Dipartimento di Chimica, Università degli Studi della Basilicata, Via N. Sauro 85, 85100 POTENZA
Giuliana Righi and Leucio Rossi, Centro C.N.R. per lo Studio della Chimica delle Sostanze Naturali, c/o Dipartimento di Chimica, Università "La Sapienza", P.le A. Moro 5, 00185, ROMA, Italy.

Studies on the iterative diastereoselective reduction of hydroxy diketesters leads to the use of NaBH₄/Ti(OiPr)₄ to obtain the corresponding 1,3,5 all *syn* triol ester as the C₁-C₁₀ fragment (in racemic form) of the macrolide antibiotic Nystatin A₁



**SYNTHESIS OF 25-FLUOROPONASTERONE A, A FLUORINATED
ANALOGUE OF 20-HYDROXYECDYSONE.**

Jaime Tomás^a, Francisco Camps^a, José Coll^b, Enric Melé^b and Nuria Pascual^a

^a Dept. de Química Orgánica Biológica, and ^b Dept. de Agrobiología, Centro de Investigación y Desarrollo, C.S.I.C., Jordi Girona 18, 08034-Barcelona, Spain; ^b Dept. de Genética Vegetal, Centro de Investigación de Cabrils, IRTA, 08348-Cabrils, Spain.

Very precise reaction conditions were required to accomplish the selective synthesis of the title compound from 20-hydroxyecdysone through the corresponding diacetonide.

