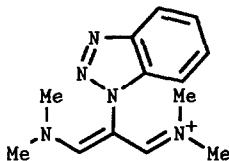


GRAPHICAL ABSTRACTS

Tetrahedron, 1993, 49, 10205

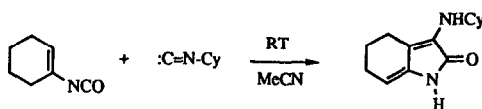
The Preparation and Some Reactions of a Benzotriazole Substituted Vinamidinium Salt. John T. Gupton*, Fred A. Hicks, Stanton Q. Smith, A. Denise Main, Scott A. Petrich, and Doug R. Wilkinson, Department of Chemistry, University of Central Florida, Orlando, Florida 32816. James A. Sikorski*, Monsanto Corporate Research, 700 Chesterfield Parkway North, St. Louis, Missouri 63198. Alan R. Katritzky*, Department of Chemistry, University of Florida, Gainesville, Florida 32611. **Abstract:** A three step synthesis of a novel 2-(1-benzotriazolyl)vinamidinium salt is described along with its direct conversion to a series of novel, benzotriazole-substituted heterocycles.



Tetrahedron, 1993, 49, 10219

[1+4] Cycloaddition of Vinyl Isocyanates with Isocyanides. Construction of Functionally Elaborate Pyrrolinone Derivatives.

James H. Rigby,* Maher Qabar, Gulzar Ahmed and Robert C. Hughes
Department of Chemistry, Wayne State University
Detroit, Michigan 48202



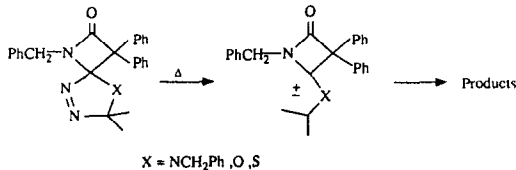
Reaction of alkyl isocyanides with vinyl isocyanates affords highly functionalized pyrrolinone and hydroxindole products via a novel [1+4] cyclization process.

Tetrahedron, 1993, 49, 10229

SPIRO β -LACTAM THIADIAZOLINE AND TRIAZOLINE SYSTEMS. COMPARISON WITH THE CHEMISTRY OF SPIRO β -LACTAM OXADIAZOLINES

Michel Zoghbi and John Warkentin*
Department of Chemistry, McMaster University, Hamilton, Ontario L8S 4M1

The spirocyclic β -lactam triazoline, thiadiazoline, and oxadiazolines show reactivities decreasing in that order. The triazoline could not be isolated, the thiadiazoline decomposes slowly in solution at room temperature, and the oxadiazoline decomposes at 100 °C.

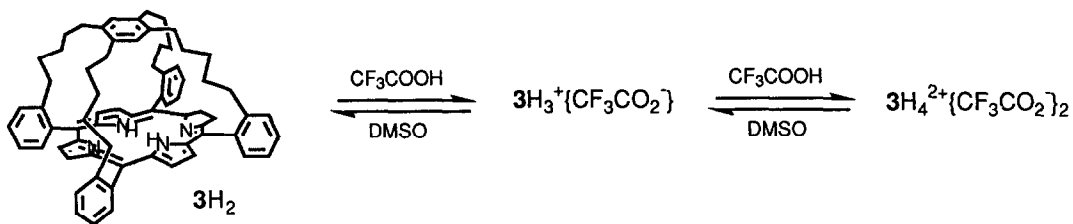


Studies on a Hydrocarbon Capped Free Base Tetraphenylporphyrin and Its Conjugate Acids - First Observation of a Monoprotonated Tetraphenylporphyrin {CapTPP(H₃⁺)CF₃CO₂⁻}

Órn Almarsson, Andrei Blaskó and Thomas C Bruce*

Department of Chemistry, University of California at Santa Barbara, Santa Barbara, CA 93106

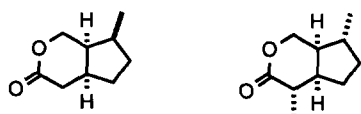
Abstract: ¹H-NMR and visible absorption spectroscopic titrations of a unique hydrocarbon capped porphyrin 3H₂ with trifluoroacetic acid in chloroform establish the formation of a stable monoprotinated porphyrin species 3H₃⁺{CF₃CO₂⁻}.



Synthesis of Monoterpene Lactones, (+)-Boschnialactone and (+)-Isoiridomyrmecin, Starting from L-(+)-Arabinose

Daisuke Tanaka, Tomoko Yoshino, Isao Kouno, Masaaki Miyashita, and Hiroshi Ine*

Faculty of Pharmaceutical Sciences, Nagasaki University, Nagasaki, 852, Japan



(1) (+)-Boschnialactone (2) (+)-Isoiridomyrmecin

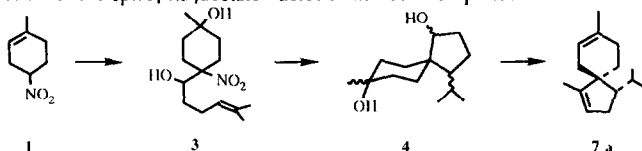
A new method for preparation of optically active γ -substituted α,β -unsaturated δ -lactones starting from L-(+)-arabinose and syntheses of two monoterpene lactones, (+)-boschnialactone and (+)-isoiridomyrmecin, by its application are described

TOTAL SYNTHESIS OF (±)-ACORADIENE VIA RADICAL CYCLIZATION

Yao-Jung Chen* and Wen-Yuan Lin

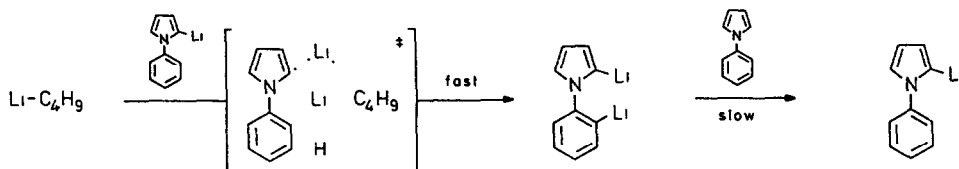
Department of Chemistry, National Chung Hsing University, Taichung, Taiwan 400, Republic of China

A new synthetic approach towards the total synthesis of (±)-acoradiene via free radical cyclization for the construction of the spiro[4.5]decane nucleus has been completed



N-PHENYLPYRROLE :
A KINETIC, THOUGH NOT THERMODYNAMIC
PREFERENCE FOR DILITHIATION

Ferenc FAIGL and Manfred SCHLOSSER *
 Institut de Chimie organique, Université de Lausanne, Switzerland

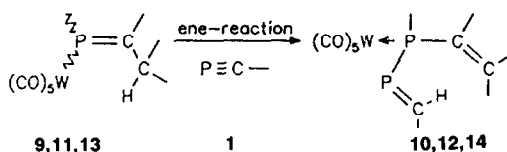


THE ENE REACTION OF PHOSPHAALKYNES WITH PENTACARBONYL-
TUNGSTEN COMPLEXES OF PHOSPHAALKENES ¹

A Marinetti^{a,*}, L Ricard^a, F Mathey^a, M Slany^b and M Regitz^{b,*},

^a Hétéroatomes et Coordination, DCPH, Ecole Polytechnique,
 F-91128 Palaiseau Cedex, France

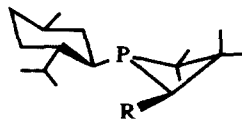
^b Fachbereich Chemie der Universität Kaiserslautern,
 Erwin-Schrödinger-Straße, D-6750 Kaiserslautern, Germany



The so far unknown ene reaction between $(\text{CO})_5\text{W}$ -complexes of phosphalkenes (**9,11,13**, enes) and phosphalkynes (**1**, enophiles) leads chemoselectively to the formation of the diphosphanes **10, 12, 14**, having unsaturated units in 1,4-position

SYNTHESIS AND CHARACTERIZATION OF SOME
P-MENTHYLPHOSPHETANES, A NEW CLASS OF
ELECTRON-RICH CHIRAL PHOSPHINES

A. MARINETTI* and L. RICARD
 Laboratoire "Hétéroatomes et Coordination", CNRS URA 1499
 DCPH, Ecole Polytechnique, 91128 Palaiseau Cedex, France



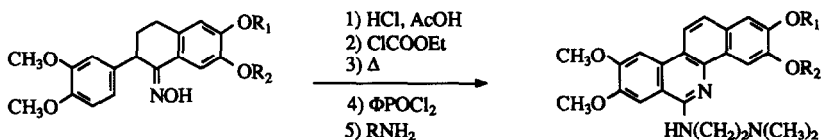
I R = H, CH_2Ph , Br

A general approach to the synthesis of diastereomerically pure, chiral phosphetanes **I** is outlined.

A FORMAL NEW ACCESS TO THE BENZO[C]PHENANTHRIDINE ALKALOIDS, SYNTHESIS OF NITIDINE AND O-METHYL FAGARONINE ANALOGUES

Yves L. Janin; Emile Bisagni*

URA 1387 CNRS, Institut Curie Bat. 110, Centre Universitaire, 91405 Orsay, France



EFFICIENT ROUTES TO 2,3-EPOXYALCOHOLS FROM CYCLOALKENYL KETONES, VIA CYCLOALKENYL ALCOHOLS

Charles M. Marson,* Andrew J. Walker, Jane Pickering, Steven Harper, Roger Wrigglesworth and Simon J. Edge

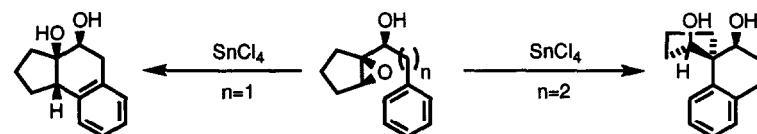
Department of Chemistry, The University, Sheffield, S3 7HF, U.K.



LEWIS ACID MEDIATED REACTIONS OF 2,3-EPOXYALCOHOLS: AN EFFICIENT STEREOCONTROLLED ROUTE TO POLYCYCLIC DIOLS

Charles M. Marson,* Steven Harper, Andrew J. Walker, Jane Pickering, Jonathan Campbell, Roger Wrigglesworth and Simon J. Edge

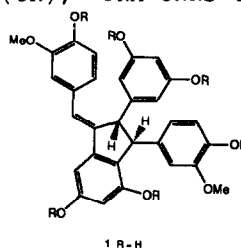
Department of Chemistry, The University, Sheffield, S3 7HF, U.K.



GNETULIN, A DIMER OF 3',4,5'-TRIHYDROXY-3-METHOXYSTILBENE FROM GNETUM ULA

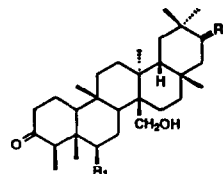
A. Zaman^{a,*}, J.D. Connolly^b, M.A. Khan^a, C. Lavaud^c, G. Massiot^c, J.-M. Nuzillard^c, M. Rahman^a, D.S. Rycroft^b and Z.S. Siddiqui^a; ^aAligarh Muslim University, (India), ^bUniversity of Glasgow, (UK), ^cCURA CNRS 492, University of Reims, (France)

Structure (1) has been assigned to Gnetulin, a dimer of 3',4,5'-trihydroxy-3-methoxystilbene, isolated from Gnetum ula


Studies on Terpenoids and Steroids. Part 27.
Structure of a D:A-Friedo-oleanane Triterpenoid from *Salacia reticulata* and Revision of the Structures of Kokoanol and Kokzeylanol Series of Triterpenoids

A.A. Leslie Gunatilaka,* Bhavani Dhanabalasingham, Veranja Karunaratne, Department of Chemistry, University of Peradeniya, Peradeniya, Sri Lanka
Tohru Kikuchi* and Yasuhiro Tezuka, Research Institute for Wakan-Yaku, Toyama Medical & Pharmaceutical University, Sugitani, Toyama 930-01, Japan

Application of extensive 2D and NOE difference NMR spectroscopy aided the elucidation of the structure of *epi-kokoondiol* from *Salacia reticulata* as 1 and led to the revision of the structures of *Kokoona* triterpenoids, kokoondiol, kokoanol, kokzeylanol, kokoanol and kokzeylanonol as 2, 3, 4, 5, and 6, respectively

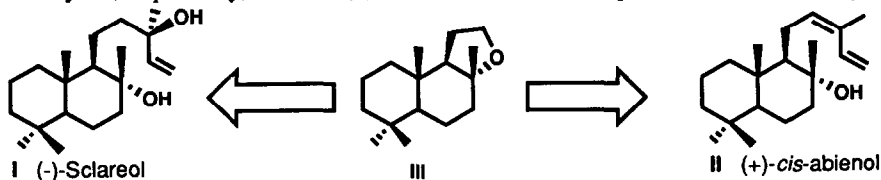


- | | |
|---|--|
| 1 R ₁ = H; R ₂ = α-OH,β-H | 4 R ₁ = H; R ₂ = O |
| 2 R ₁ = H; R ₂ = β-OH,α-H | 5 R ₁ = OH; R ₂ = H ₂ |
| 3 R ₁ = H; R ₂ = H ₂ | 6 R ₁ = OH; R ₂ = H ₂ |

SYNTHESIS OF AMBROX® FROM (-)-SCLAREOL AND (+)-*cis*-ABIENOL

Alejandro F. Barrero,* Enrique J. Alvarez-Manzaneda, Joaquín Altarejos, Sofía Salido and José M. Ramos
Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Granada, 18071 Granada (Spain)

(-)-Ambrox® (III) has been synthesized from (-)-sclareol (I), in 3 steps by 2 different approaches, in 72% and 58% overall yield, respectively, and from (+)-*cis*-abienol (II) in a 2 step reaction (84% overall yield).

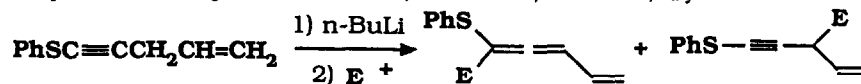


LITHIATION OF 1-PHENYLSULFENYL-4-PENTEN-1-YNES AND REACTIONS WITH ELECTROPHILES.

 Saverio Florio,^a Ludovico Ronzini,^b Erbana Epifani^b and Riccardo Sgarra^b

a) Dipartimento Farmaco-Chimico, Università di Bari, Via Orabona 4, 70125 Bari, Italy;

b) Dipartimento di Biologia, Università di Lecce, Via Monteroni, 73100 Lecce, Italy.


 45-97% overall yield; E=H₂O, D₂O, MeI, Ketones, Aldehydes

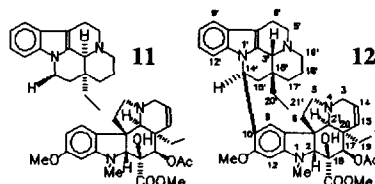
SYNTHESIS OF VINCA ALKALOIDS AND RELATED COMPOUNDS. PART LXVIII. TWO DIASTEREOISOMERIC ASPIDOSPERMA-EBURNEA TYPE BIS-INDOLES: THEIR SYNTHESIS AND STRUCTURE REVISITED

 Katalin Honty,^a Csaba Szántay Jr.,^b Pál Kolonits,^a Ádám Demeter,^{a,b} and Csaba Szántay^{a*}
^a Technical University, Department of Organic Chemistry, H-1521,

Budapest, Gellért tér 4, Hungary.

^b Chemical Works of Gedeon Richter, Spectroscopic Research Centre, H-1475, Budapest, POB 27, Hungary.

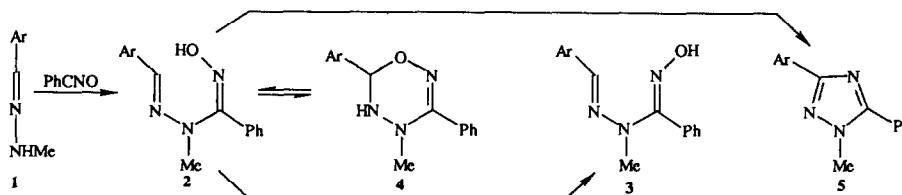
With the aim of clarifying their previously incorrectly depicted structure, the indole-indoline type compounds **11** and **12** were synthesized via different routes.


AROMATIC ALDEHYDE METHYLHYDRAZONES AND NITRILE OXIDE. CRYSTAL STRUCTURE OF 3,6-DIPHENYL-4-METHYL-6H-1,2,4,5-OXATRIAZINE.

 Francesco Risitano,^a Giovanni Grassi,^a Francesco Fou,^a Giuseppe Bruno,^b Francesco Nicolo'.^b

a) Istituto di Chimica dei Composti eterociclici, Università, Vill. S. Agata 98166 Messina, Italy

b) Dipartimento di Chimica Inorganica, Analitica e Struttura Molecolare, Università, Vill. S. Agata 98166 Messina, Italy



Reaction of methylhydrazones **1** with nitrile oxide affords Z-adducts **2**, which, depending on the reaction procedure and the substituents, can undergo either isomerization to **3** or tautomerization to **4** or irreversible cyclization to **5**

**PETROSYNOL AND PETROSOLIC ACID, TWO NOVEL
NATURAL INHIBITORS OF THE REVERSE
TRANSCRIPTASE OF HUMAN IMMUNODEFICIENCY
VIRUS FROM *PETROSIA SP.***

SARA ISAACS¹, SHOSHANA LOYA², YOEL KASHMAN^{1*}, YOSSI LOYA³ AND AMNON HIZI²

¹School of Chemistry, ²School of Medicine, ³Department of Zoology, Tel-Aviv University, Ramat Aviv
69978, ISRAEL

Petrosynol and the novel petrosolic acid (**2**) were isolated from a marine sponge.
The gross structure of **2** was determined by NMR spectroscopy.

