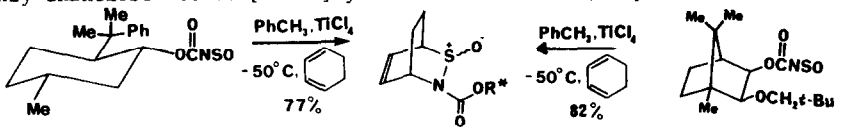
## GRAPHICAL ABSTRACTS

Tet.Lett.,27,17,1853 (1986)

ENANTIOSELECTIVE N-SULFINYL DIENOPHILE DIELS-ALDER CYCLOADDITIONS

Stacy W. Remiszewski, Joongik Yang and Steven M. Weinreb*
Department of Chemistry, The Pennsylvania State University, University Park, PA 16802 USA

Abstract: N-Sulfinyl carbamates prepared from phenylmenthol and a (+)-camphor-derived alcohol undergo highly enantioselective [4 + 2]cycloadditions with 1,3-cyclohexadiene catalyzed by $TiCl_4$.

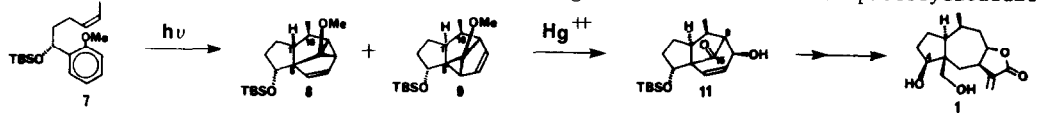



Tet.Lett.,27,17,1857 (1986)

SEVEN-MEMBERED RING SYNTHESIS BASED ON ARENE OLEFIN CYCLOADDITIONS: THE TOTAL SYNTHESIS OF (±)-RUDMOLLIN

Paul A. Wender* and Karl J. Fisher
Department of Chemistry, Stanford University, Stanford, CA 94305 USA

The total synthesis of the antileukemic agent rudmollin is described, based on a new approach to complex seven-membered ring synthesis involving the arene olefin meta photocycloaddition.

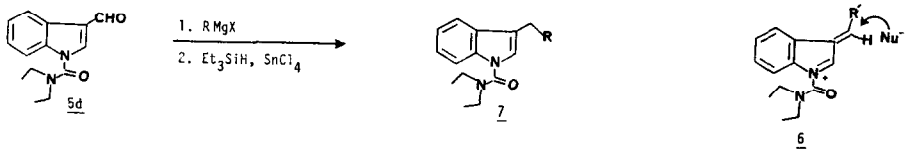



Tet.Lett.,27,17,1869 (1986)

SYNTHESIS OF 3-SUBSTITUTED INDOLES VIA N-ACYLINDOLIUM IONS

Daniel L. Comins* and Eric D. Stroud
Department of Chemistry and Biochemistry, Utah State University, Logan, Utah 84322 0300

A synthesis of 3-substituted indoles from indole-3-carboxaldehyde via N-acylindolium ions (6).

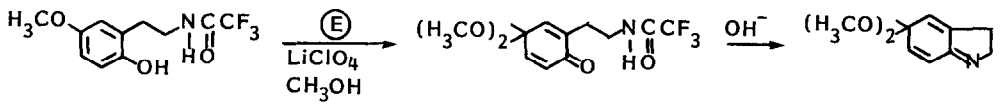



Tet.Lett.,27,17,1891 (1986)

A GENERAL APPROACH TO QUINONE IMINE KETALS. INTERESTING INTERMEDIATES FOR PREPARATION OF 5-OXYGENATED INDOLES AND QUINONE IMINES

Chung-Pin Chen, Chuan Shih, and John S. Swenton*
Department of Chemistry, The Ohio State University, Columbus, OH 43210

A general approach to quinone imine ketals in good overall yield has been developed.

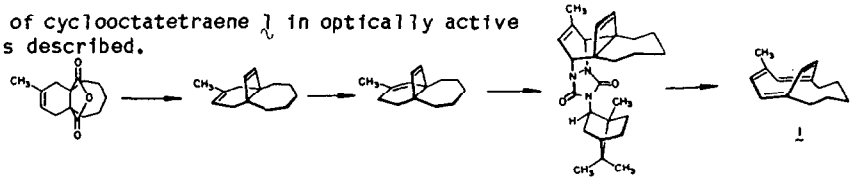


Tet.Lett.,27,17,1895 (1986)

## AN OPTICALLY ACTIVE CYCLOOCTATETRAENE INCAPABLE OF RACEMIZATION

Leo A. Paquette* and Michael P. Trova
Department of Chemistry, The Ohio State University, Columbus, Ohio 43210 USA

A synthesis of cyclooctatetraene 1 in optically active condition is described.

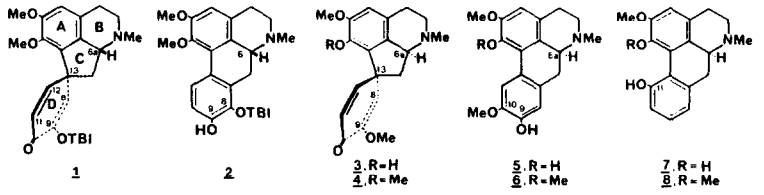


Tet.Lett.,27,17,1899 (1986)

## THE PHOTOLYSIS OF PROAPORPHINES

Belkis Gözler, Hélène Guinaudeau and Maurice Shamma
Department of Chemistry, The Pennsylvania State University, University Park, PA 16802, USA
and Günay Sariyar
Department of Pharmacognosy, Faculty of Pharmacy, Istanbul University, Istanbul, Turkey

The stereochemical factors involved in the photolysis of proaporphine 1 to aporphine 2, as well as of proaporphine 3 to aporphines 5 and 7, and proaporphine 4 to aporphines 6 and 8, are described.

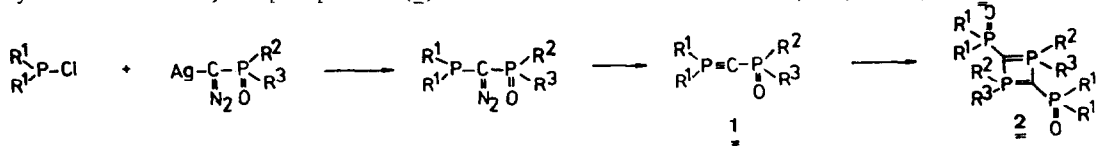


Tet.Lett.,27,17,1903 (1986)

## UNUSUAL OXYGEN SHIFT DURING DIMERIZATION OF $\lambda^5\sigma^3$-PHOSPHAALKYNES

Harald Keller, Gerhard Maas und Manfred Regitz*
Department of Chemistry, Erwin-Schrödinger-Straße, University of Kaiserslautern, West Germany

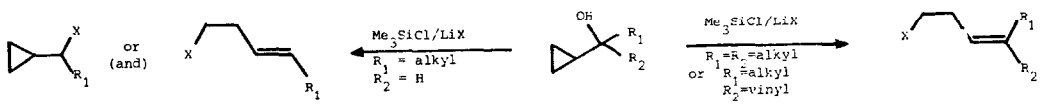
Synthesis of $\lambda^5$-1,3-diphosphetes (2) via dimerization of the $\lambda^5\sigma^3$-phosphaalkynes 1.



Tet.Lett.,27,17,1907 (1986)

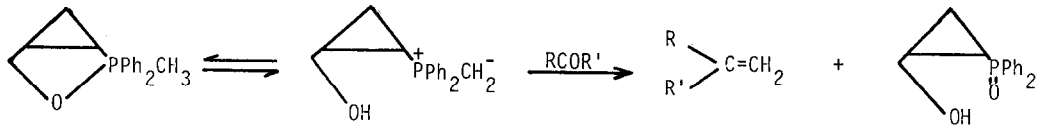
## REACTION OF α-CYCLOPROPYL ALCOOLS WITH $Me_3SiCl$ EVENTUALLY IN THE PRESENCE OF LiBr or LiI.

Geneviève Balme, Guy Fournet and Jacques Goré.
Université Claude Bernard Lyon I, 69622 Villeurbanne Cédex, France.



Tet.Lett.,27,17,1909 (1986)

2,2-Dihydro 2-methyl 2,2-diphenyl 3,4-methano 1,2-oxaphospholanne is effective for the methylenation of carbonyl compounds without base and solvent.

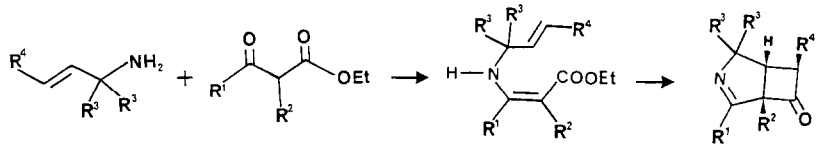



Tet.Lett.,27,17,1913 (1986)

**PREPARATION OF 3-AZABICYCLO [3.2.0] HEPTENONES BY INTRAMOLECULAR [2+2] CYCLOADDITION**

**Fariba Arya, James Bouquant and Josselin Chuche***
**Laboratoire de Chimie Organique Physique, U.A. 459 du CNRS,U.E.R. Sciences,51062 Reims Cédex**

**A two step synthesis of 3-azabicyclo [3.2.0] heptenones from allylamines and β-ketoesters.**

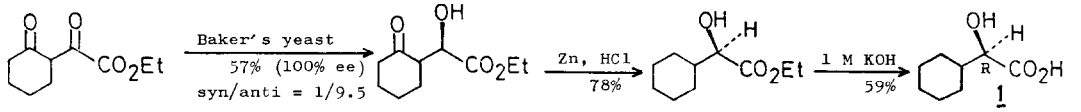



Tet.Lett.,27,17,1915 (1986)

A FACILE SYNTHESIS OF (R)-(-)-HEXAHYDROMANDELIC ACID WITH FERMENTING BAKER'S YEAST

Sadao Tsuboi, Emiko Nishiyama, Masanori Utaka, and Akira Takeda*
Department of Synthetic Chemistry, School of Engineering,
Okayama University, Tsushima, Okayama 700, Japan

A synthesis of optically pure (R)-(-)-hexahydromandelic acid (1) via the asymmetric reduction of ethyl α,2-dioxocyclohexaneacetate with fermenting baker's yeast followed by Clemmensen reduction.

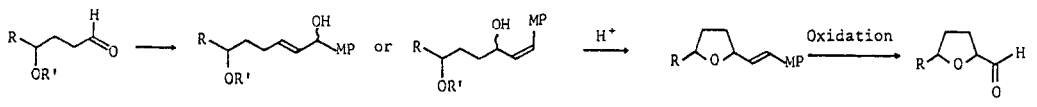



Tet.Lett.,27,17,1917 (1986)

SYNTHESIS OF SUBSTITUTED TETRAHYDROFURANS AND TETRAHYSROPYRANS. 2. STEREOCONTROLLED ACID-CATALYZED CYCLIZATIONS

Ichio Noda, Kiyoshi Horita, Yuji Oikawa, and Osamu Yonemitsu*
Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan

An acid-catalyzed synthesis of thermodynamically stable tetrahydrofurans and tetrahydropyrans

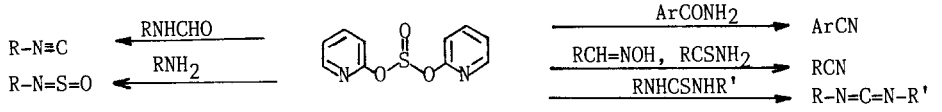


Tet.Lett.,27,17,1925 (1986)

# DI-2-PYRIDYL SULFITE. A NEW USEFUL REAGENT FOR THE PREPARATION OF N-SULFINYLAMINES, NITRILES, ISOCYANIDES, AND CARBODIIMIDES UNDER MILD CONDITIONS

Sunggak Kim* and Kyu Yang Yi
Department of Chemistry, Korea Advanced Institute of Science & Technology, Seoul 131, Korea

Di-2-pyridyl sulfite as a dehydration, a dehydrosulfurization, and a sulfinating agent

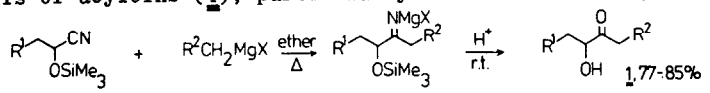



Tet.Lett.,27,17,1933 (1986)

# ADDITION OF ORGANOMAGNESIUM REAGENTS TO CYANOHYDRIN-O-SILYL ETHERS: AN EFFICIENT AND FLEXIBLE SYNTHESIS OF UNSYMMETRICALLY SUBSTITUTED ACYLOINS

Melvyn Gill*, Milton J. Kiefel and Deborah A. Lally
Department of Organic Chemistry, University of Melbourne, Parkville, Victoria, 3052, Australia

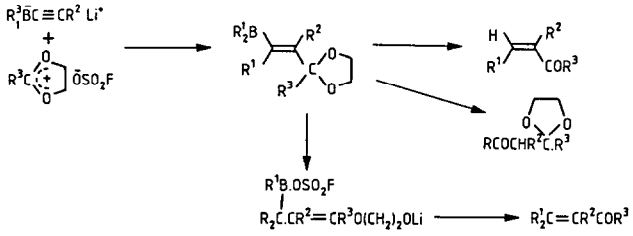
A new synthesis of acyloins (1), particularly those in which $R^1 \neq R^2$




Tet.Lett.,27,17,1935 (1986)

# REACTIONS OF TRIALKYLALKYNYLBORATES WITH 2-ALKYL-1,3-DIOXOLAN-2-YLIUM FLUOROSULPHONATES. VERSATILE DIRECT ROUTES TO Z-αβ-UNSATURATED KETONES, SPECIFICALLY PROTECTED 1,3-DIKETONES AND OTHER KETONIC SPECIES.

Andrew Pelter and M. Eamon Colclough,
Department of Chemistry, University College of Swansea, Swansea SA2 8PP, U.K.

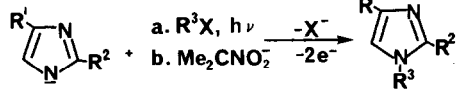



Tet.Lett.,27,17,1943 (1986)

# $S_{RN}1$ AND OXIDATIVE ADDITION REACTIONS OF NITROIMIDAZOLE ANIONS

Adelaide T.O.M. Adebayo, W. Russell Bowman*, and G.D. Salt
Department of Chemistry, University of Technology, Loughborough, Leics. LE11 3TU

Alkylation of 2- and 4-nitroimidazoles by $S_{RN}1$ and oxidative addition reactions




a) $R^3 = Me_2C(NO_2)$-, X = Br, Cl, $NO_2$; $R^1 = NO_2$, $R^2$ = H, Me

$R^3$ = p-$NO_2$-$C_6H_4CH_2$-, X = Cl; $R^1 = NO_2$, $R^2$ = H, Me; $R^2 = NO_2$, $R^1$ = H

b) $R^1 = NO_2$, $R^2$ = H, Me, $R^3 = Me_2C(NO_2)$-