Tetrahedron, 1991, 47, 1603

THE REGIOSELECTIVE AND STEREOSPECIFIC SUBSTITUTION OF UNSYMMETRICAL 1,2-DIOLS USING THE

1,3,23.5 DIOXAPHOSPHOLANE METHODOLOGY Anne Pautard-Cooper and Slayton A.Evans, Jr., *Wm. R. Kenan, Jr., Laboratones of Chemistry, The University of North Carolina, Chapel Hill, NC 27599-3290

Reactions of substituted $1,3,2\lambda^5$ -dioxaphospholanes with p-TsOH and NaN₃ are regioselective and largely stereospecific.

Tetrahedron, 1991, 47, 1611

ENZYME REACTIONS IN APOLAR SOLVENTS. THE RESOLUTION OF BRANCHED AND UNBRANCHED 2-ALKANOLS BY PORCINE PANCREATIC LIPASE. Brian Morgan, Allan C. Oehlschlager* and Thomas M. Stokes

High enantioselectivity was observed in the transesterification of straight-chain and branched 2-alkanols using porcine pancreatic lipase in ether A chemicoenzymatic synthesis of (R)-(-)-9-hydroxy-(E)-decenoic acid is described.

OH

R =
$$(CH_2)_nCH_3$$

R = $(CH_2)_nCH_{02}$

R = $(CH_2)_nCHMe_2$

R = $(CH_2)_nCHMe_$

Tetrahedron, 1991, 47,1621

FORMATION OF A NITRILE VIA ZINC IODIDE-CATALYSED OPENING OF A BAY-REGION POLYCYCLIC AROMATIC HYDROCARBON EPOXIDE BY TRIMETHYLSILYL CYANIDE A. K Jhingan and T. Meehan, Dept of Pharmacy, University of California, San Francisco, CA 94143-0446 Protection of the hydroxyl groups of the carcinogen (±)-7β,8α-dihydroxy-9α,10α-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene followed by epoxide opening provides a mixture of *trans* and *cis* 9-trimethylsilyl-10-cyano derivatives, in contrast to the formation of isonitriles reported with mono- and bicyclic ring systems

CARBENOID ENTRY INTO TRIFLUOROMETHYLATED MOLECULES: PREPARATION OF FUNCTIONALIZED CF3-CONTAINING γ , δ -unsaturated Carboxylic esters by RHODIUM-CATALYZED REACTION OF ETHYL 3,3,3-TRIFLUORO-2-DIAZO-PROPIONATE WITH ALLYLIC SULFIDES AND THEIR FURTHER FACILE CONVERSION TO TRIFLUOROMETHYLATED CONJUGATED DIENOIC ESTERS

Guoqiang Shi, Yuanyao Xu* and (in part)Ming Xu Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Academia Sinica, 345 Lingling Lu, Shanghai 200032, China

Tetrahedron, 1991, 47,1649

SYNTHESIS OF OXYGENATED EREMOPHILANES, GIGANTENONE, PHOMENONE AND PHASEOLINONE, PHYTOTOXINS FROM PATHOGENIC FUNGI

TAKESHI KITAHARA,* HIROMASA KIYOTA, HITOSHI KURATA and KENJI MORI, Department of Agricultural Chemistry, The University of Tokyo, 1-1-1 Yayot, Bunkyo-ku, Tokyo 113, Japan

Gigantenone

Phomenone

Phaseolinone

Stereoselective synthesis of several oxygenated eremophilane sesquiterpenes as phytotoxins,(+)-gigantenon (+)-phomenone 2 and (+)-phaseolinone 3, was achieved in short steps from (+)-sporogen-AO 1 4.

Tetrahedron, 1991, 47, 1655

METHYLENATION OF ALDONOLACTONES RENÉ CSUK AND BRIGITTE I. GLANZER PHARMAZEUTISCH-CHEMISCHES INSTITUT, UNIVERSITÄT HEIDELBERG, D-6900 HEIDELBERG, FRG

Reaction of dicyclopentadienyldimethyltitanium with furanoid and pyranoid aldonolactones provides an effective way of synthesizing carbohydrate derivatives possessing an exo-methylene group at C-1 adjacent to the ring oxygen

This approach offers several advantages over the use of Tebbe's reagent.

CARBENATION ET EPOXYDATION DE 1-INDANONES 1'-SPIRO 3'-CYCLOHEXENE ET DE 1-TETRALONES 1'-SPIRO 3'-CYCLOHEXENE.

S Lafquih Titouani*, M Soufiaoui*, L Toupet**, M Vaultier** et R Carrié** * Université Mohammed V, Rabat, Maroc ** Université de Rennes I, 35042 Rennes, France

Synthèse stéréospécifique et étude conformationnelle de dichlorocyclopropanes et époxydes correspondant aux composés du titre

Tetrahedron, 1991, 47, 1677

DIASTEREOSELECTIVE SYN OR ANTI OPENING OF PROPARGYLIC EPOXIDES SYNTHESIS OF α-ALLENIC ALCOHOLS

A Alexakis, I Marek, P Mangeney and J.F Normant

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Tetrahedron, 1991, 47,1697

APPLICATION OF ORGANOLITHIUM AND RELATED REAGENTS IN SYNTHESIS. PART 9. SYNTHESIS AND METALLATION OF CHLORO-PICOLIN- AND CHLOROISONICOTIN-ANILIDES. A USEFUL METHOD FOR PREPARATION OF 2,3,4-TRISUBSTITUTED PYRIDINES

J. Epsztajn*, A. Bieniek* and J.A. Kowalska Department of Organic Chemistry,

University, 90-136 Łódź, Poland

A synthesis of the 2,3,4-trisubstituted pyridines (\underline{A}) and (\underline{B}) via total conversion of picolinic and isonicotinic acids, was developed.

A PM3 STUDY OF THE REACTIONS OF PROPENE WITH SINGLET OXYGEN AND OTHER ENOPHILES

Alwyn G Davies and Carl H Schiesser

Department of Chemical and Analytical Sciences, Deakin University, Geelong, Victoria, Australia, 3217 and Department of Chemistry, University College London, 20 Gordon Street, London, U K, WC1H 0AJ

Two alternative reaction pathways, one involving a 6-membered ring transition state, the other, a strained 3-membered intermediate, have been located on the PM3 potential energy surfaces for the reactions of a number of enophiles, including singlet oxygen, with propene

Tetrahedron, 1991, 47,1727

SYNTHESIS OF 3'-C-ETHYNYLNUCLEOSIDES OF THYMINE

Sophie Huss, Federico G. De las Heras and María José Camarasa* Instituto de Química Médica Juan de la Cierva, 3. 28006 Madrid, Spain

Tetrahedron, 1991, 47, 1737

THE FISCHER INDOLE SYNTHESIS OF 8-METHYL-5-SUBSTITUTED 1-OXO-8-CARBOLINES A REMARKABLE HIGH YIELD OF A [1,2]-METHYL MIGRATION Santiago V. Luis* and M. Isabel Burguete

Dpto. Química Orgánica, Colegio Universitario de Castellón, Universidad de Valencia, 12080 Castellón, Spain

Indolization of hydrazones 6 occurs with an unusual high yield of the rearranged product 8 when R1=R2=CH3.

PHOTOINUCED SINGLE ELECTRON TRANSFER ACTIVATION OF ORGANOPHOSPHINES INUCLEOPHILIC TRAPPING OF PHOSPHINE RADICAL CATION

Ganesh Pandey, Dinah Pooranchand and U.T. Bhalerao Organic Division II, Indian Institute of Chemical Technology, Hyderabad 500 007, India.

$$R_3 P \xrightarrow{h \hat{y}} R_3 P \xrightarrow{H_2O} R_3 P \xrightarrow{-OH_2} - R_3 P \xrightarrow{-H^+} R_3 P = 0$$

Tetrahedron, 1991, 47, 1753

A COMPUTATIONAL STUDY TOWARDS THE REACTIVITY OF 2-(2-ETHYNYLPHENYL-X-)PYRIMIDINES IN INTRA-MOLECULAR DIELS-ALDER REACTIONS.

W A.W Stolle, A.T M Marcelis and H C van der Plas*
Laboratory of Organic Chemistry, Agricultural University, Dreyenplein 8, 6703 HB Wageningen,
The Netherlands.

The order of reactivity of the title compounds 1 $(X = CO, O, CH_2, NH)$ was investigated, using the rigid rotor model (MM calculations) and by determination of the heat of activation (MNDO calculations) of the Diels-Alder reaction of 1 to 2