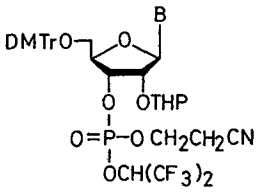
Tetrahedron 45, 5459 (1989)

THE 1,1,1,3,3,3-HEXAFLUORO-2-PROPYL GROUP AS A NEW PHOSPHATE PROTECTING GROUP FOR OLIGORIBONUCLEOTIDE SYNTHESIS IN THE PHOSPHOTRIESTER APPROACH

S.Yamakage, M.Fujii, H.Takaku*, and †M.Uemura
Laboratory of Bioorganic Chemistry, Department of Industrial Chemistry, Chiba Institute of Technology, Tsudanuma, Narashino, Chiba 275, Japan and †Research and Development Division, Shin-Daikyowa Petrochemical Co., LTD, Yokkaichi, Mie 510, Japan

The 1,1,1,3,3,3-hexafluoro-2-propyl group can be used as a new protecting group for oligoribonucleotide synthesis in the phosphotriester approach.

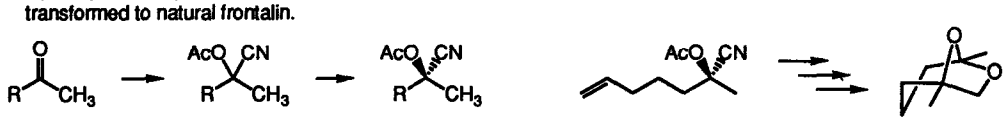


Tetrahedron 45, 5469 (1989)

ENZYMATIC KINETIC RESOLUTION OF CYANOHYDRIN ACETATES AND ITS APPLICATION TO THE SYNTHESIS OF (S)-(-)-FRONTALIN

Hiromichi OHTA*, Yoichi KIMURA, Yasushi SUGANO, and Takeshi SUGAI
Department of Chemistry, Keio University, Hiyoshi 3-14-1, Kohoku-ku, Yokohama 223, JAPAN

Optically active cyanohydrin acetates have been prepared via microbial hydrolysis, and one of which was transformed to natural frontalin.

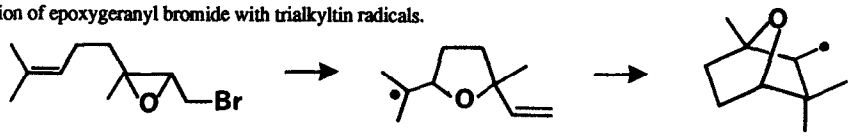


Tetrahedron 45, 5531 (1989)

FREE RADICAL CYCLISATION OF UNSATURATED EPOXIDES

Rosslyn C. Gash, Finlay MacCorquodale and John C. Walton*
University of St. Andrews, Department of Chemistry, St. Andrews, Fife, KY16 9ST.

Tetrahydrofuranylmethyl radicals and 7-oxabicyclo[2.2.1]heptanylmethyl radicals were identified by e.s.r. spectroscopy in the reaction of epoxygeranyl bromide with trialkyltin radicals.

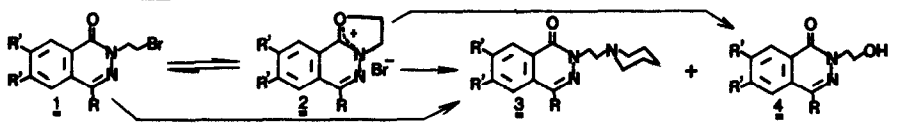


Tetrahedron 45, 5539 (1989)

BROMOALKYLPHTHALAZINONES AND ISOMERIC OXAZOLINIUM SALTS AS INTERMEDIATES AND SYNTHONS.

A. Csámpai*, K. Körmendy, P. Sohár and F. Ruff
Res. Group Peptide Chem., Hungarian Acad. Sci. H-1445 Budapest, POB 325, HUNGARY

Conversion of bromoethyl phthalazinones (1) into piperidino compounds (3) may proceed both directly and via tricyclic intermediates (2). In the latter case hydrolysis overcomes amination.

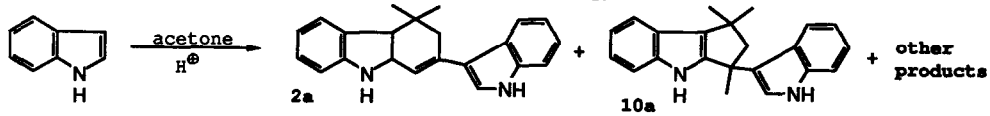


R = H, Me, Ph, OH, NH_2, Cl
R' = H, OMe

Tetrahedron 45, 5549 (1989)

Structure Elucidation of Some Products Obtained by Acid-Catalyzed Condensation of Indole with Acetone

Jan Bergman*, Per-Ola Norrby, Ulf Tilstam, and Lennart Venemalm
Department of Organic Chemistry, Royal Institute of Technology, S-100 44 Stockholm SWEDEN



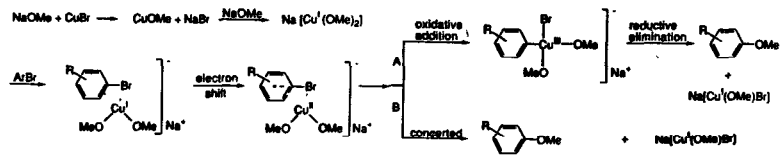
Acid-induced condensation reactions between indole and acetone have been reinvestigated.

Tetrahedron 45, 5565 (1989)

THE COPPER CATALYSED REACTION OF SODIUM METHOXIDE WITH ARYL BROMIDES, A MECHANISTIC STUDY LEADING TO A FACILE SYNTHESIS OF ANISOLE DERIVATIVES

H.L. Aalten, G. van Koten, D.M. Grove T. Kuilman, O.G. Piekstra, L.A. Hulshof and R.A. Sheldon,
Dept. of Inorganic Chemistry, Univ of Amsterdam, 1018 WV, THE NETHERLANDS

Investigations of parameters of the reaction shown in the Scheme of the proposed mechanism.

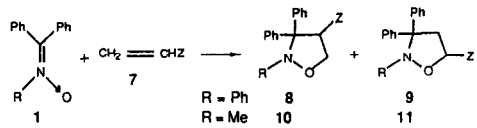


Tetrahedron 45, 5579 (1989)

CONTROL OF REGIOCHEMISTRY IN NITRONE CYCLOADDITIONS. REGIOSELECTIVITY OF THE REACTIONS OF TRISUBSTITUTED NITRONES WITH ELECTRON-DEFICIENT AND CONJUGATED DIPOLAROPHILES.

Marina Burdisso, Remo Gandolfi* and Paolo Grünanger
Dip. Chim. Organica, Università di Pavia (Italy)

In the reaction of nitrones **1** with olefins **7** thermodynamic control has been shown to bring about a clear-cut reversal of regioselectivity with respect to kinetic control.



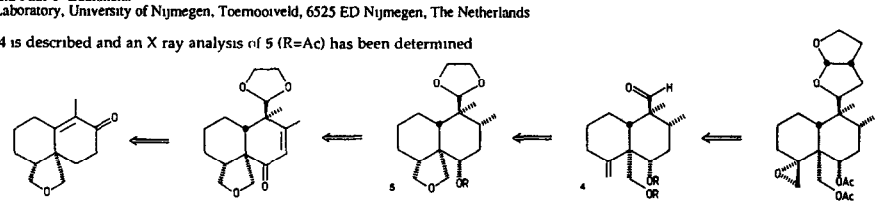
a Z = CHO, b Z = COMe, c Z = CN, d Z = CO_2Me, e Z = SO_2Ph; f Z = NO_2, g Z = Ph

Tetrahedron 45, 5595 (1989)

THE SYNTHESIS OF A KEY INTERMEDIATE IN THE TOTAL SYNTHESIS OF INSECT ANTIFEEDANT CLERODANES

Jan Vader, Lucas L Doddema, Rob M Peperzak, Aede de Groot*
Laboratory of Organic Chemistry, Agricultural University Wageningen, Dreijenplein 8, 6703 HB Wageningen, The Netherlands
Jan M M. Smits and Paul T Beurskens*
Crystallography Laboratory, University of Nijmegen, Toernooiveld, 6525 ED Nijmegen, The Netherlands

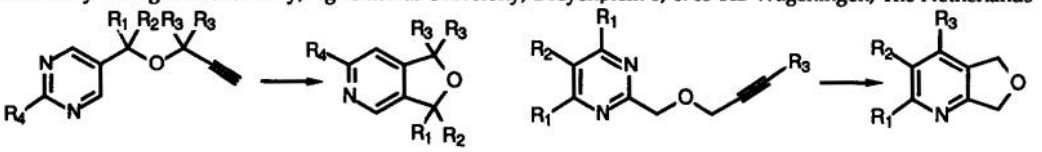
The synthesis of 4 is described and an X ray analysis of 5 (R=Ac) has been determined



Tetrahedron 45, 5611 (1989)

SYNTHESIS OF 1,3-DIHYDROFURO[3,4-c]PYRIDINES AND 5,7-DIHYDROFURO[3,4-b]PYRIDINES BY INTRAMOLECULAR DIELS-ALDER REACTIONS OF PYRIMIDINES. INVESTIGATION OF THE EFFECT OF STERIC INTERACTIONS ON THE REACTION RATE.

A.E. Frissen, A.T.M. Marcelis, D.G. Buurman, C.A.M. Pollmann and H.C. van der Plas*,
Laboratory of Organic Chemistry, Agricultural University, Dreyenplein 8, 6703 HB Wageningen, The Netherlands



Tetrahedron 45, 5621 (1989)

PALLADIUM-CATALYZED DIASTEREOSELECTIVE SYNTHESES OF (E)-1-TRIMETHYLSILYL-2-ALKENES, (E)-1-TRIMETHYLSILYL-1-ALKEN-3-YNES, (1E,5E)-1-TRIMETHYLSILYL-1,5-ALKADIEN-3-YNES, (1E,3Z)- AND (1E,3E)-1-TRIMETHYLSILYL-1,3-ALKADIENES.

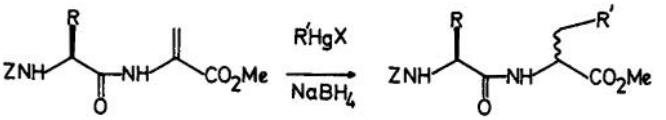
Bianca Patrizia Andreini, Adriano Carpita, Renzo Rossi*, and Barbara Scamuzzi
Dipartimento di Chimica e Chimica Industriale - Università di Pisa - Via Risorgimento 35 - 56100 Pisa - ITALY

Efficient and convenient diastereoselective procedures have been developed to prepare compounds 4, 5, 6, 7, and 8. Some synthetic applications of compounds 5-8 are also discussed.

Tetrahedron 45, 5641 (1989)

FREE-RADICAL ADDITION TO DI- AND TRIPEPTIDES CONTAINING DEHYDROALANINE RESIDUES

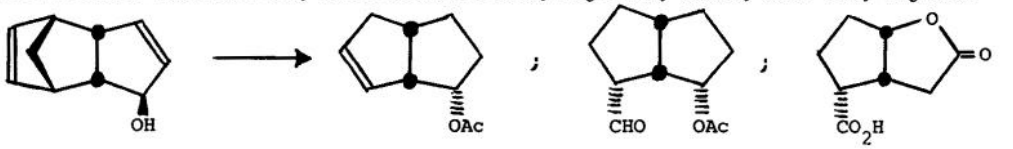
D. Crich and J.W. Davies, Department of Chemistry, University College London, 20 Gordon Street, London WC1H OAJ, U.K.



Tetrahedron 45, 5655 (1989)

THE SYNTHESIS OF SOME CARBAPROSTACYCLIN PRECURSORS

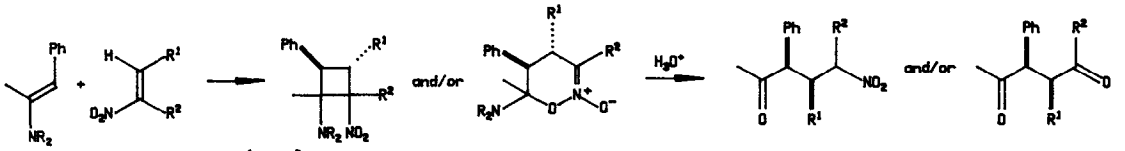
C.W. Bird[a*], H.I. Butler[a], E.C.J. Coffee[b], L.M. James[a] and B.W.C. Schmidt[a].
[a] *Department of Chemistry, King's College London, The Strand, London WC2R 2LS, England.*
[b] *The Research Laboratories, Rhone-Poulenc Ltd., Dagenham, Essex, RM10 7XS, England.*



Tetrahedron 45, 5667 (1989)

CARBO- AND HETEROCYCLIZATION REACTIONS OF
2-(MORPHOLINYL)-1-PHENYLPROPENE AND NITROOLEFINS

F.Felluga, P.Nitti, G.Pitacco and E.Valentin
Dipartimento di Scienze Chimiche, Università, 34127 Trieste, Italy



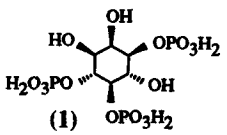
HNR_2 = morpholine; R^1, R^2 = Ph, H; Ph, Me; Me, Ph; $(CH_2)_3$; $(CH_2)_4$

Tetrahedron 45, 5679 (1989)

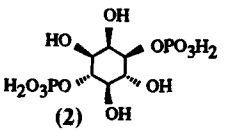
The Total Synthesis of myo-Inositol polyphosphates

Joseph P. Vacca[1], S. Jane deSolms[1], Joel R Huff[1], David C. Billington[2], Ramond Baker[2], Janusz J. Kulagowski[2] and Ian M. Mawer[2].
Merck Sharp and Dohme Research Laboratories :[1] West Point, Pennsylvania ;[2]Terlings Park, Eastwick Road, Harlow, Essex, CM20 2QR

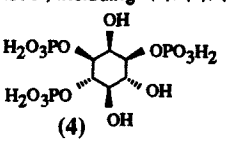
A series of inositol polyphosphates have been synthesised , including (1), (2), (4), and (5) .



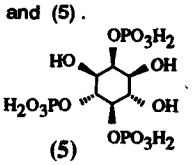
(1)



(2)



(4)



(5)