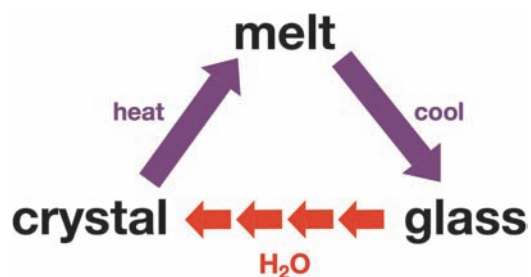


Contents

DL-Ribose Crystal Structures: the Glass–Crystal Transformation

*G. Zandomenighi**, *W. B. Schweizer**, *R. Gilmour**, *B. H. Meier**, *J. D. Dunitz**

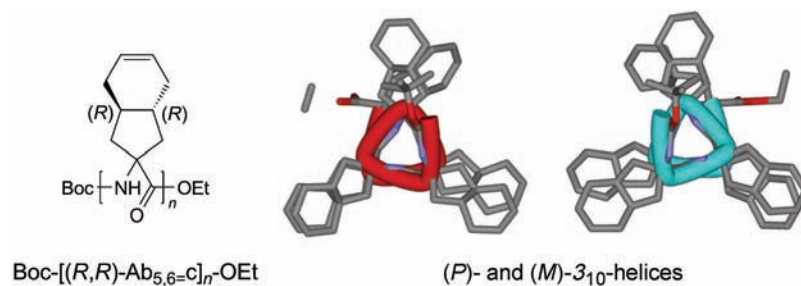
1687



Helical Structures of Bicyclic α -Amino Acid Homochiral Oligomers with the Stereogenic Centers at the Side-Chain Fused-Ring Junctions

K. Anan, *Y. Demizu*, *M. Oba*, *M. Kurihara*, *M. Doi*, *H. Suemune*, *M. Tanaka**

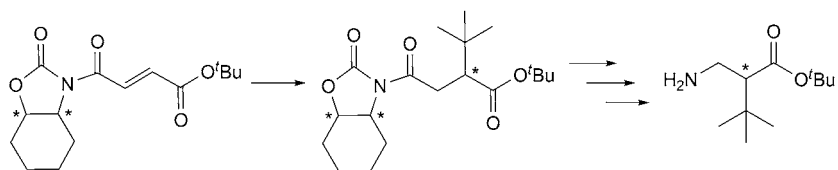
1694



Asymmetric Synthesis of β^2 -homo-*tert*-Leucine via Radical Addition to Enantiopure *N*-Fumaroylhexahydrobenzoxazolidin-2-one

*M. Escudero-Casao, E. Juaristi**

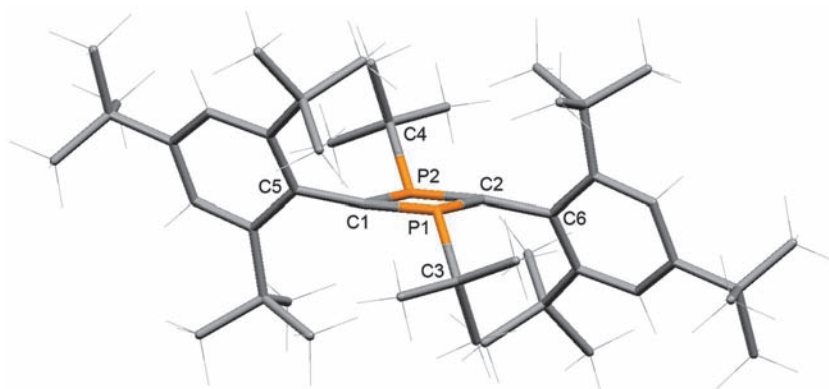
1714



New Aspects of 1,3-Diphosphacyclobutane-2,4-diyls

M. Yoshifuji, Y. Hirano, G. Schnakenburg, R. Streubel, E. Niecke, S. Ito*

1723

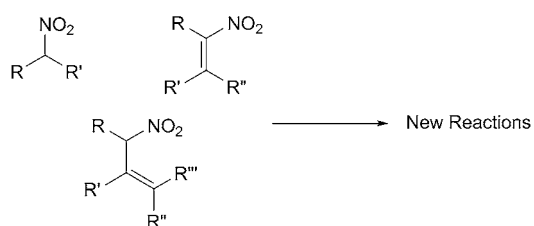


REVIEW

Some Aspects of the Chemistry of Nitro Compounds

*S. Z. Zard**

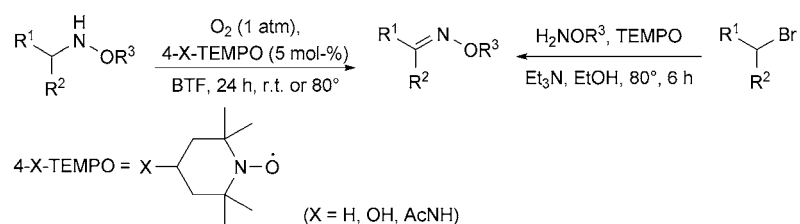
1730



Metal-Free 2,2,6,6-Tetramethylpiperidin-1-yloxy Radical (TEMPO) Catalyzed Aerobic Oxidation of Hydroxylamines and Alkoxyamines to Oximes and Oxime Ethers

S. Wertz, A. Studer*

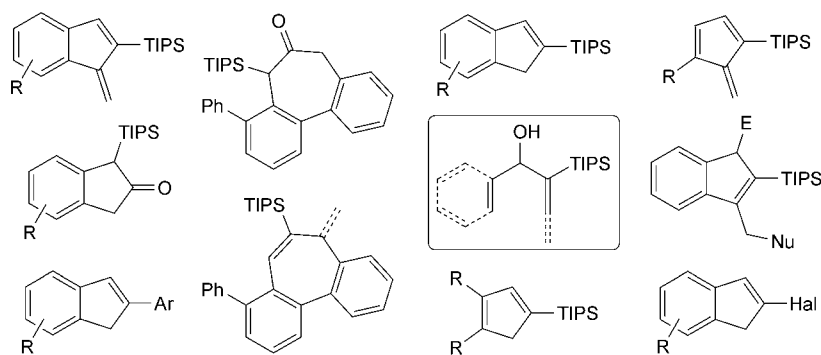
1758



Gold(I)-Catalyzed Cyclodehydration Enabled by the Triisopropylsilyl Group: A Synthetically Versatile Methodology

D. L. Usanov, M. Naodovic, M. Brasholz, H. Yamamoto*

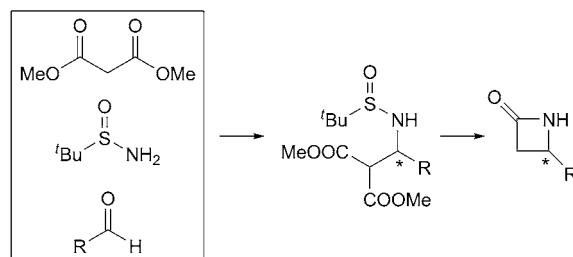
1773



Diastereoselective Coupling of *N*-(*tert*-Butyl)sulfinyl Imines and Dimethyl Malonate. Synthesis of Enantiomerically Enriched β -Amino Esters and β -Lactams

H. K. Dema, F. Foubelo*, M. Yus*

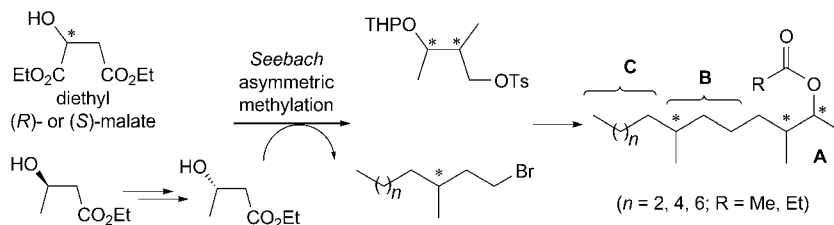
1790



Asymmetric Syntheses of the Sex Pheromones of Pine Sawflies, Their Homologs and Stereoisomers

J.-F. Zheng, H.-Q. Lan, R.-F. Yang, Q.-L. Peng, Z.-H. Xiao, S.-C. Tuo, K.-Z. Hu, Y.-G. Xiang, Z. Wei, Z. Zhang, P.-Q. Huang*

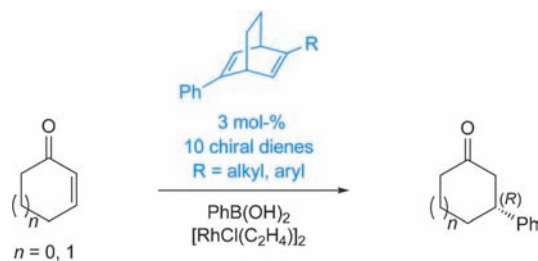
1799



C₁-Symmetric Bicyclo[2.2.2]octa-2,5-diene (bod*) Ligands in Rhodium-Catalyzed Asymmetric 1,4-Addition of Arylboronic Acids to Enones and 1,2-Addition to *N*-(4-Nitrophenyl)sulfonylimines

R. Brönnimann, S. Chun, R. Marti*, S. Abele*

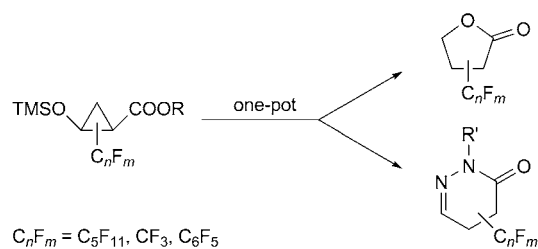
1809



Synthesis of Perfluoroalkyl-Substituted γ -Lactones and 4,5-Dihydropyridazin-3(2*H*)-ones via Donor–Acceptor Cyclopropanes

D. Gladow, H.-U. Reissig*

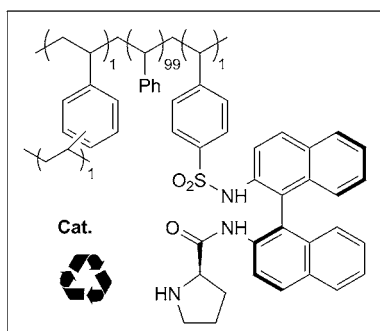
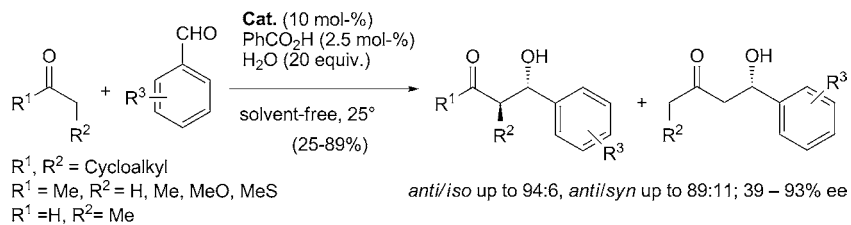
1818



Cross-Linked-Polymer-Supported *N*-[2'-[(Arylsulfonyl)amino][1,1'-binaphthalen]-2-yl]-prolinamide as Organocatalyst for the Direct Aldol Intermolecular Reaction under Solvent-Free Conditions

A. Bañón-Caballero, G. Guillena*, C. Nájera*

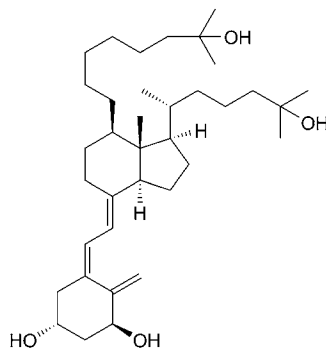
1831



Synthesis of (1 α)-1,25-Dihydroxyvitamin D₃ with a β -Positioned Seven-Carbon Side Chain at C(12)

D. M. Carballa, A. Rumbo, M. Torneiro, M. Maestro, A. Mouriño*

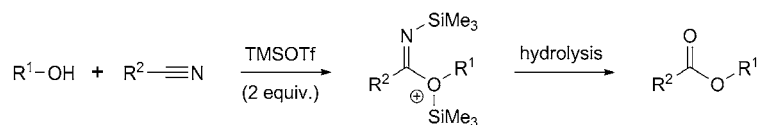
1842



A Hydrogen Chloride-Free Pinner Reaction Promoted by Lewis Acids

D. Pfaff, G. Nemecek, J. Podlech*

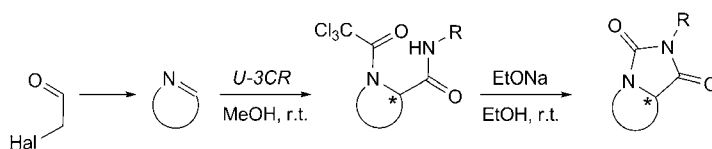
1851



A Manifold Three-Step Synthetic Route to Polycyclic Annulated Hydantoin via Cyclic Imines

F. Brockmeyer, D. Kröger, T. Stalling, P. Ullrich, J. Martens*

1857

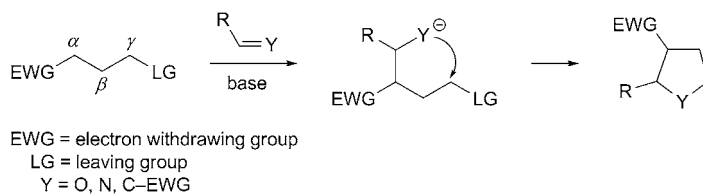


REVIEW

Intermolecular Reactions of γ -Halocarbanions – Stepwise Analogs of 1,3-Dipolar Cycloaddition

M. Barbasiewicz, M. Mąkosza*

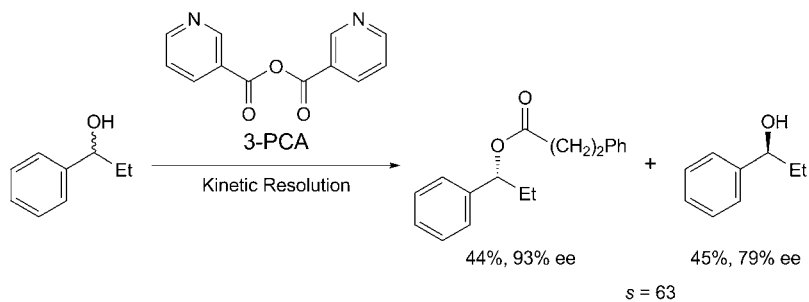
1871



Kinetic Resolution of Racemic Secondary Benzylic Alcohols by the Enantioselective Esterification Using Pyridine-3-carboxylic Anhydride (3-PCA) with Chiral Acyl-Transfer Catalysts

*I. Shiina**, *K. Nakata*, *K. Ono*, *T. Mukaiyama**

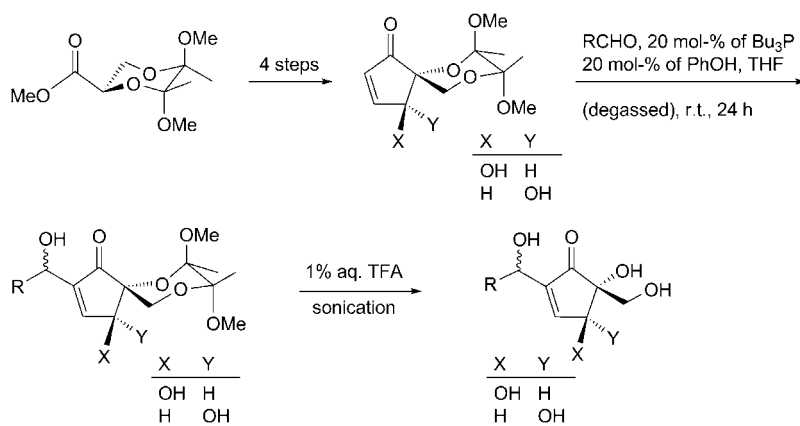
1891



The *Morita–Baylis–Hillman* Reaction of Chiral Highly Oxygenated Cyclopent-2-enones

C. Masusai, *D. Soorukram*, *C. Kuhakarn*, *P. Tuchinda*, *C. Pakawatchai*, *V. Reutrakul*, *M. Pohmakotr**

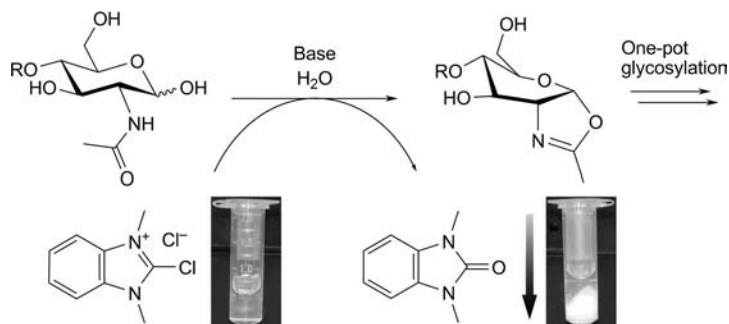
1912



A Practical One-Step Synthesis of 1,2-Oxazoline Derivatives from Unprotected Sugars and Its Application to Chemoenzymatic β -*N*-Acetylglucosaminidation of Disialo-oligosaccharide

*M. Noguchi, T. Fujieda, W. C. Huang, M. Ishihara, A. Kobayashi, S.-i. Shoda**

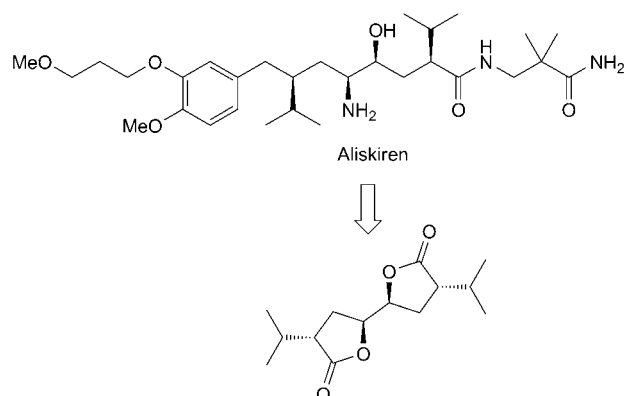
1928



A Total Synthesis of Aliskiren

*G. Nam, S. Y. Ko**

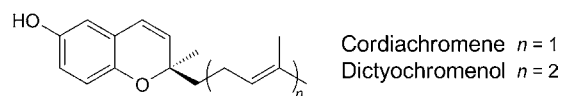
1937



Enantioselective Synthesis of (–)-(*R*)-Cordiachromene and (–)-(*R*)-Dictyochromenol Utilizing Intramolecular *S_NAr* Reaction

Y. Noda, M. Yasuda*

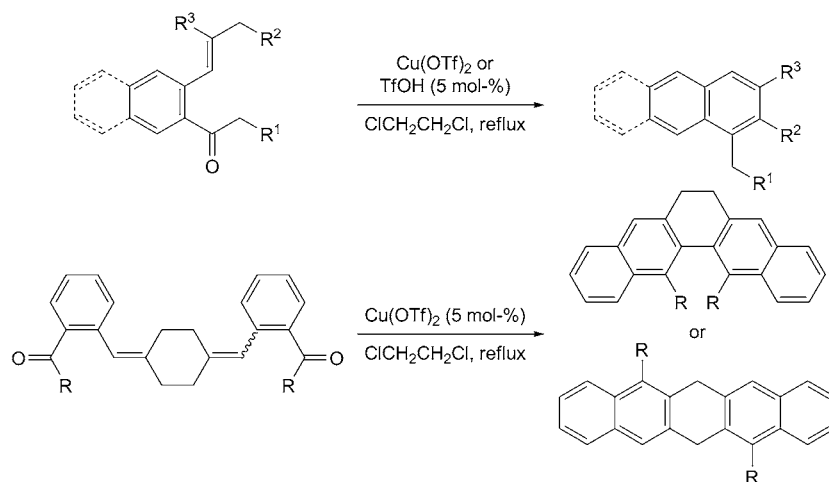
1946



Cyclization of (2-Alkenylphenyl)carbonyl Compounds to Polycyclic Arenes Catalyzed by Copper(II) Trifluoromethanesulfonate or Trifluoromethanesulfuric Acid

W.-M. Liu, Y. L. Tnay, K. P. Gan, Z.-H. Liu, W. H. Tyan, K. Narasaka*

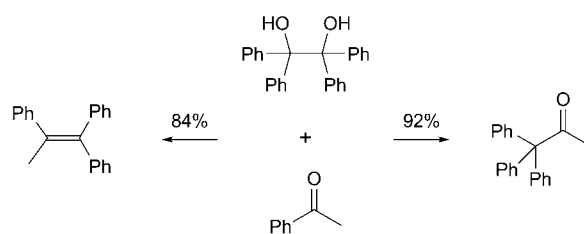
1953



A One-Pot Cross-Pinacol Coupling/Rearrangement Procedure

U. Scheffler, R. Mahrwald*

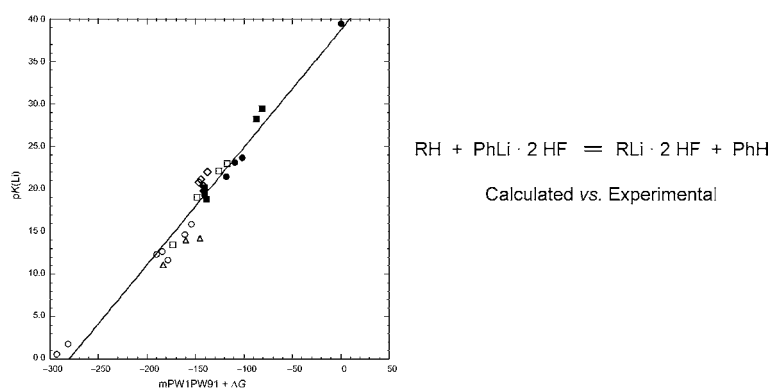
1970



A Comparison of Density-Functional Theory and *Hartree-Fock* Modeling of Organolithium Equilibria

A. Streitwieser*, Y. H. Leong

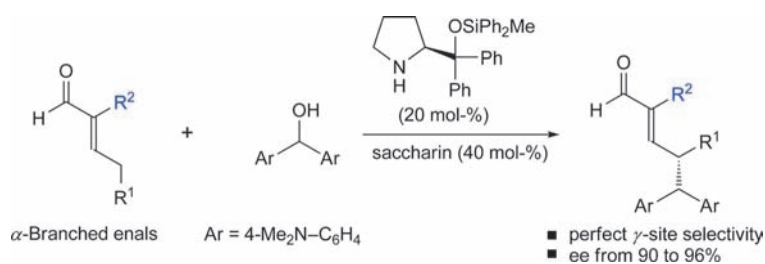
1976



Secondary Amine-Catalyzed Asymmetric γ -Alkylation of α -Branched Enals *via* Dienamine Activation

M. Silvi, C. Cassani, A. Moran, P. Melchiorre*

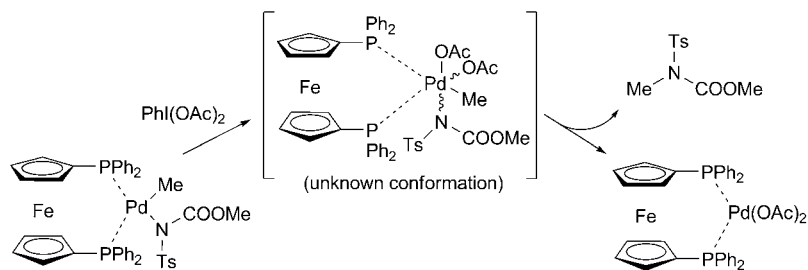
1985



Studies on Alkyl-Nitrogen Bond Formation *via* Reductive Elimination from Monomeric Palladium Complexes in High Oxidation State

Á. Iglesias, K. Muñiz*

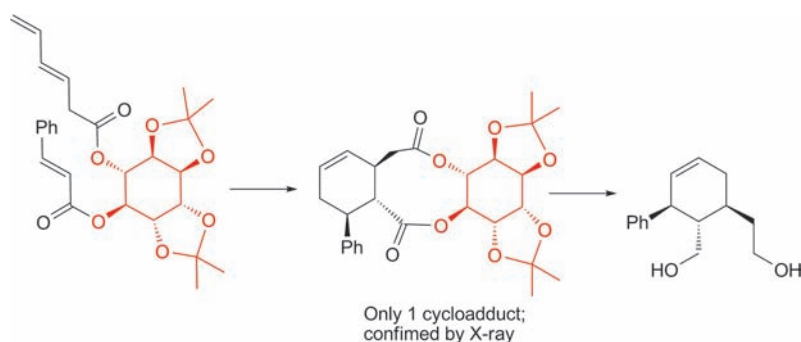
2007



Application of *D*-chiro-Inositol as a Chiral Template for the *Diels–Alder* Reaction

*J. F. Trant, L. Belding, T. Dudding, T. Hudlicky**

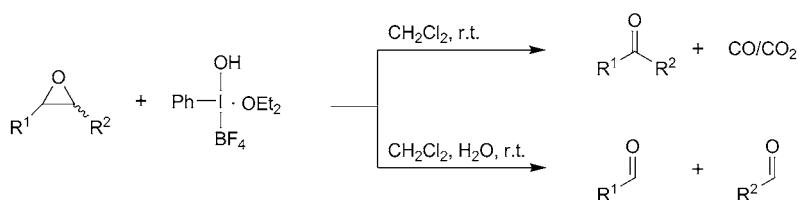
2026



Oxidative Cleavage and Rearrangement of Aryl Epoxides Using Iodosylbenzene: on *Criegee's* Trail

*N. Havare, D. A. Plattner**

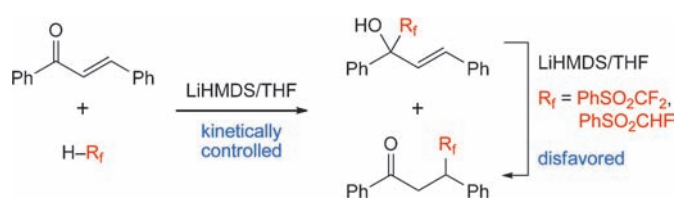
2036



Nucleophilic Fluoroalkylation of α,β -Unsaturated Carbonyl Compounds with α -Fluorinated Sulfones: Investigation of the Reversibility of 1,2-Additions and the Formation of 1,4-Adducts

*X. Shen, C. Ni, J. Hu**

2043





* Author to whom correspondence should be addressed
Korrespondenzautor