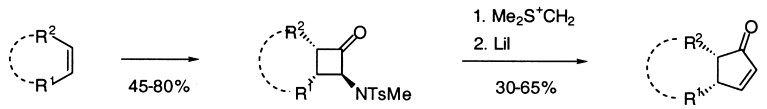
Graphical abstracts

Asymmetric [2+2+1] cyclopentannulation of olefins. Ring expansion of 2-*N*-methyl-*N*-tosyl-cyclobutanone

Tetrahedron 58 (2002) 6991

Florence Mahuteau-Betzer[a] and Léon Ghosez[a,b,*]

[a]*Department of Chemistry, University of Louvain, 1 Place Louis Pasteur, 1348 Louvain-la-Neuve, Belgium*
[b]*European Institute of Chemistry and Biology, IECB-ENSCPB, 16 Avenue Pey-Berland, 33607 Pessac, France*



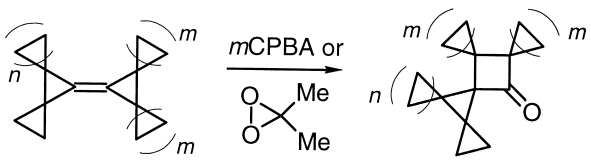
$R^1, R^2 = (CH_2)_n$ n = 3-6 or R^1 = Ph, *n*-Bu and R^2 = H

Cyclopropyl building blocks in organic synthesis. Part 81: Striving for unusually strained oxiranes: epoxidation of spirocyclopropanated methylenecyclopropanes

Tetrahedron 58 (2002) 7001

Daniel Frank,[a] Sergei I. Kozhushkov,[a] Thomas Labahn[b] and Armin de Meijere[a,*]

[a]*Institut für Organische Chemie der Georg-August-Universität Göttingen, Tammannstrasse 2, D-37077 Göttingen, Germany*
[b]*Institut für Anorganische Chemie der Georg-August-Universität Göttingen, Tammannstrasse 4, D-37077 Göttingen, Germany*



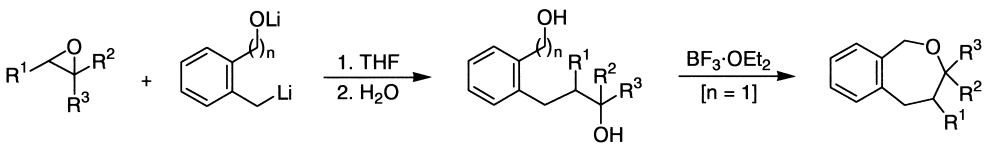
n, *m* = 0, 1

Reaction of functionalized organolithium compounds with substituted oxiranes: useful methodology for 1,6- and 1,7-diols, and tetrahydrobenzoxepines

Tetrahedron 58 (2002) 7009

Miguel Yus* Tatiana Soler and Francisco Foubelo

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apdo. 99, E-03080 Alicante, Spain



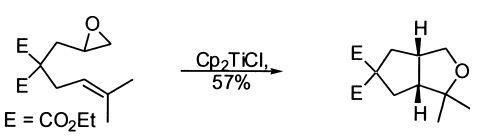
[n = 1, 2] (21-89%) (76-91%)

A comparison of electron transfer reagents in the reductive opening of epoxides: reasons for the superiority of titanocene based complexes

Tetrahedron 58 (2002) 7017

Andreas Gansäuer* and Björn Rinker

Kekulé Institut für Organische Chemie und Biochemie der Universität Bonn, Gerhard-Domagk-Str. 1, 53121 Bonn, Germany

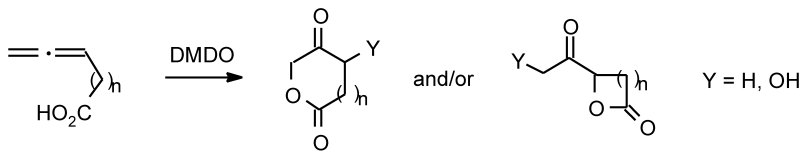


Allene epoxidation: synthesis of functionalized lactones by the DMDO oxidation of allenic acids

Tetrahedron 58 (2002) 7027

Jack K. Crandall* and Elisa Rambo

Department of Chemistry, Indiana University, Bloomington, IN 47405-7102, USA

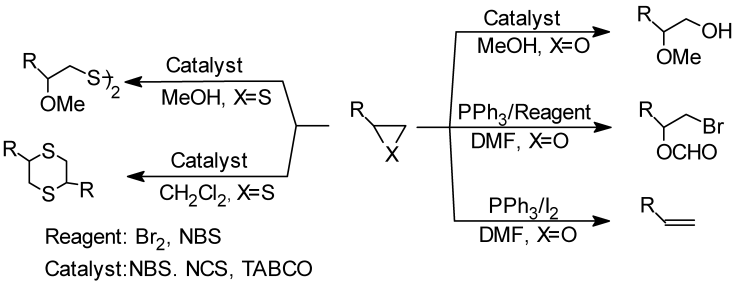


Reactions of epoxides and episulfides with electrophilic halogens

Tetrahedron 58 (2002) 7037

Nasser Iranpoor,* Habib Firouzabadi* Maryam Chitsazi and Abbas Ali Jafari

Department of Chemistry, College of Sciences, Shiraz University, Shiraz 71454, Iran



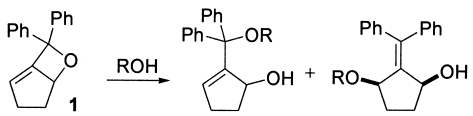
Reaction of 7,7-diphenyl-6-oxabicyclo[3.2.0]hept-1-ene with ROH; controlling factors on the regioselectivity in the nucleophilic addition reaction

Tetrahedron 58 (2002) 7043

Manabu Abe,* Takafui Minamoto, Yasunori Ino Takanori Kawakami and Masatomo Nojima

Department of Materials Chemistry, Graduate School of Engineering, Osaka University, Yamadaoka 2-1, Suita 565-0871, Osaka, Japan

The mechanism for the ROH-induced decomposition of the strained bicyclic 3-alkylideneoxetane **1** was investigated. Strain energy of the parent 6-oxabicyclo[3.20]hept-1-ene was determined.

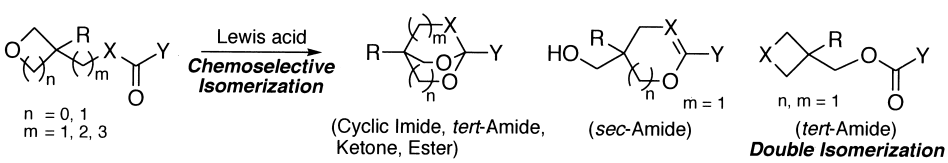


Isomerization of cyclic ethers having a carbonyl functional group: new entries into different heterocyclic compounds

Tetrahedron 58 (2002) 7049

Shigeyoshi Kanoh,* Masashi Naka, Tomonari Nishimura and Masatoshi Motoi

Department of Industrial Chemistry, Faculty of Engineering, Kanazawa University, Kodatsuno, Kanazawa 920-8667, Japan

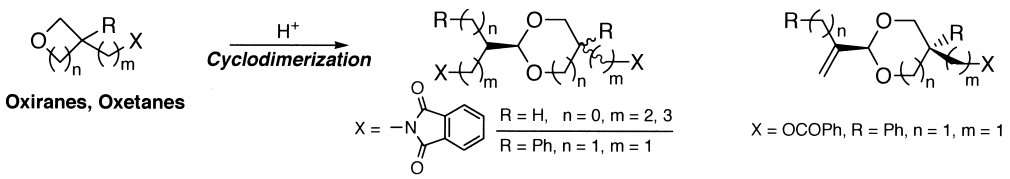


Unusual cyclodimerization of small cyclic ethers via neighboring carbonyl-group participation and cation transfer

Tetrahedron 58 (2002) 7065

Shigeyoshi Kanoh,* Tomonari Nishimura Masashi Naka and Masatoshi Motoi

Department of Industrial Chemistry, Faculty of Engineering, Kanazawa University, Kodatsuno, Kanazawa 920-8667, Japan



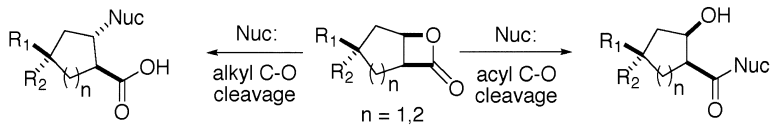
Nucleophilic openings of bicyclic β-lactones via acyl C–O and alkyl C–O cleavage: catalytic, asymmetric synthesis of a versatile, carbocyclic nucleoside precursor and protected transpentacin

Tetrahedron 58 (2002) 7075

Yasuno Yokota, Guillermo S. Cortez and Daniel Romo*

Department of Chemistry, Texas A&M University, P.O. Box 300012, College Station, TX 77842-3012, USA

Bicyclic β-lactones available via the catalytic, asymmetric, nucleophile catalyzed aldol-lactonization (NCAL) process undergo nucleophilic ring openings and reductions with regioselectivities similar to their non-fused analogs.

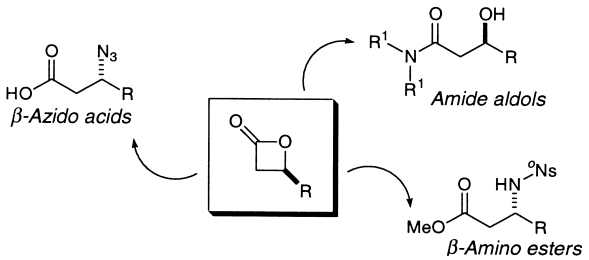


Divergent reaction pathways in amine additions to β-lactone electrophiles. An application to β-peptide synthesis

Tetrahedron 58 (2002) 7081

Scott G. Nelson,* Keith L. Spencer, Wing S. Cheung and Steven J. Mamie

Department of Chemistry, University of Pittsburgh, 1401 Chevron Science Center, Pittsburgh, PA 15260, USA

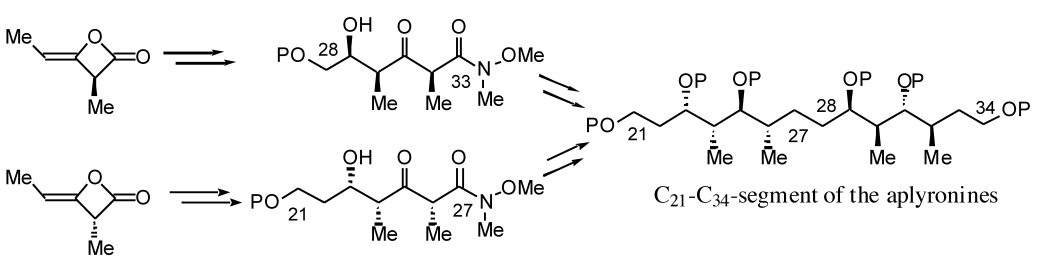


Synthesis of the C_{21}–C_{34}-segment of the aplyronines using the dimer of methylketene

Tetrahedron 58 (2002) 7093

Michael A. Calter* and Xin Guo

Department of Chemistry, University of Rochester, Rochester, NY 14627-0216, USA

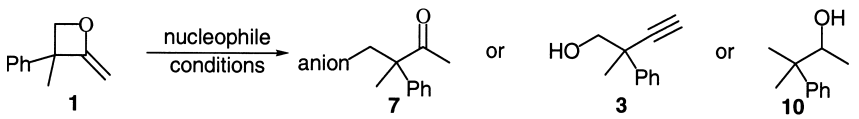


Ring opening reactions of 2-methyleneoxetanes

Tetrahedron 58 (2002) 7101

Ying Wang, Henri Bekolo and Amy R. Howell*

Department of Chemistry, University of Connecticut, 55 North Eagleville Road, Unit 3060, Storrs, CT 06269-3060, USA

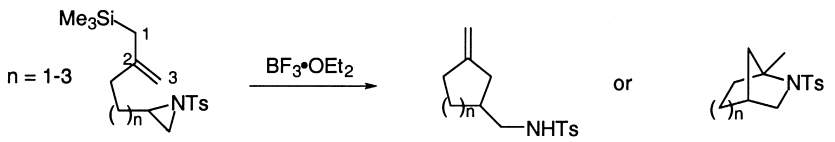


Aziridine–allylsilane-mediated synthesis of exocyclic γ-amino olefins and azabicyclo[*x.y.*1]-systems

Tetrahedron 58 (2002) 7109

David J. Lapinsky and Stephen C. Bergmeier*

Department of Chemistry and Biochemistry, Ohio University, Athens, OH 45701, USA

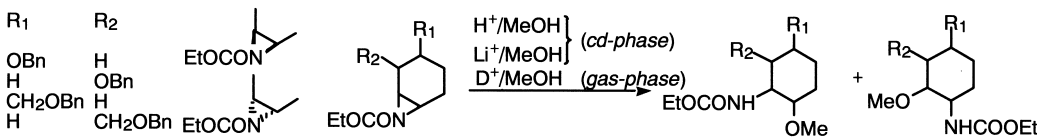


Regiochemical control of the ring opening of aziridines by means of chelating processes. Part 3: Regioselectivity of the opening reactions with methanol of remote *O*-substituted regio- and diastereoisomeric activated aziridines under condensed- and gas-phase operating conditions

Tetrahedron 58 (2002) 7119

Paolo Crotti,[a,*] Valeria Di Bussolo,[a] Lucilla Favero,[a] Franco Macchia,[a] Gabriele Renzi[b,*] and Graziella Roselli[b]

[a]*Dipartimento di Chimica Bioorganica e Biofarmacia, Università di Pisa, Via Bonanno 33, 56126 Pisa, Italy*
[b]*Dipartimento di Scienze Chimiche, Università di Camerino, Via S.Agostino 1, 62032 Camerino, Italy*

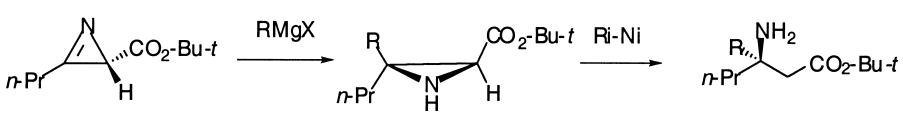


Aziridine-mediated asymmetric synthesis of quaternary β-amino acids using 2*H*-azirine 2-carboxylate esters

Tetrahedron 58 (2002) 7135

Franklin A. Davis,[a,*] Jianghe Deng,[a] Yulian Zhang[a] and R. Curtis Haltiwanger[b]

[a]*Department of Chemistry, Temple University, Philadelphia, PA 19122, USA*
[b]*GlaxoSmithKline, 709 Swedeland Road, King of Prussia, PA 19406, USA*

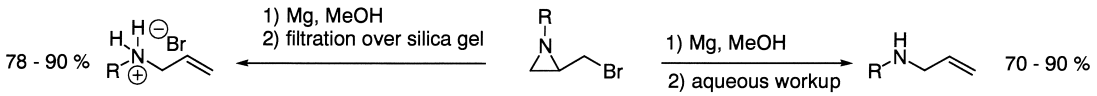


Electron transfer induced ring opening of 2-(bromomethyl)aziridines by magnesium in methanol

Tetrahedron 58 (2002) 7145

Kourosch Abbaspour Tehrani, Tuyen NguyenVan, Michinori Karikomi, Mario Rottiers and Norbert De Kimpe*

Department of Organic Chemistry, Faculty of Agricultural and Applied Biological Sciences, Ghent University, Coupure Links 653, B-9000 Ghent, Belgium

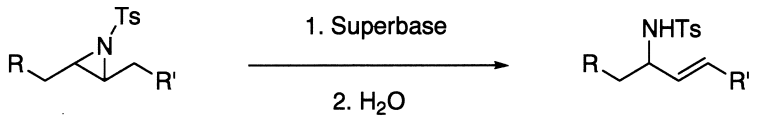


Base-promoted elaboration of aziridines

Tetrahedron 58 (2002) 7153

Alessandro Mordini,* Francesco Russo, Michela Valacchi, Lorenzo Zani, Alessandro Degl'Innocenti and Gianna Reginato

Dipartimento di Chimica Organica 'U. Schiff', Istituto di Chimica dei Composti Organometallici, via della Lastruccia 13, 50019 Sesto Fiorentino, Firenze, Italy

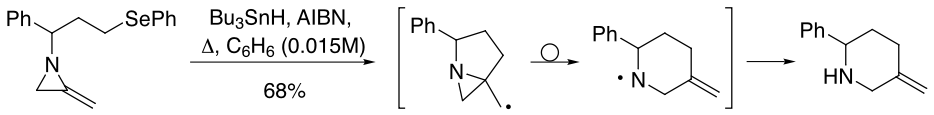


Synthesis of substituted piperidines, decahydroquinolines and octahydroindolizines by radical rearrangement reactions of 2-alkylideneaziridines

Tetrahedron 58 (2002) 7165

Natacha Prévost and Michael Shipman*

School of Chemistry, University of Exeter, Stocker Road, EX4 4QD Exeter, Devon, UK

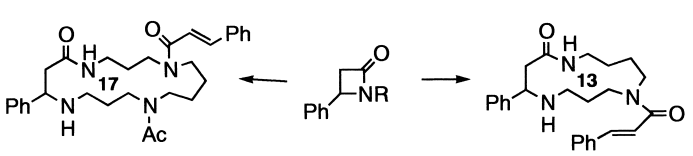


β-Lactams as building blocks in the synthesis of macrocyclic spermine and spermidine alkaloids

Tetrahedron 58 (2002) 7177

Harry H. Wasserman* Haruo Matsuyama and Ralph P. Robinson

Department of Chemistry, Yale University, P.O. Box 208107, New Haven, CT 06520-8107, USA



Conversion of 2-alkylidenephosphiranes into 1,4-diphosphaspiropentanes

Tetrahedron 58 (2002) 7191

Ngoc Hoa Tran Huy,* Rahim Salemkour, Nicolas Bartes, Louis Ricard and François Mathey*

Laboratoire Hétéroéléments et Coordination, UMR CNRS 7653, DCPH, Ecole Polytechnique, 91128 Palaiseau Cedex, France