

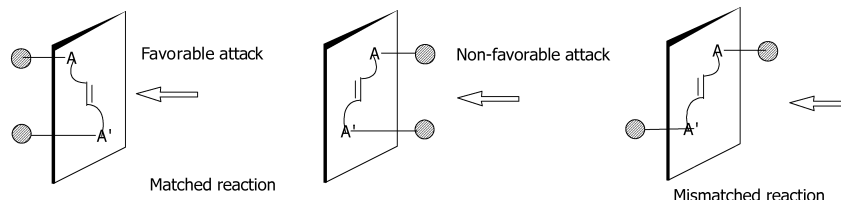
Graphical abstracts

Multiple stereoselectivity and its application in organic synthesis

Oleg I. Kolodiazhnyi

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The broad applicability and efficiency of the multiple stereoselectivity is reviewed. The report contains 350 references.

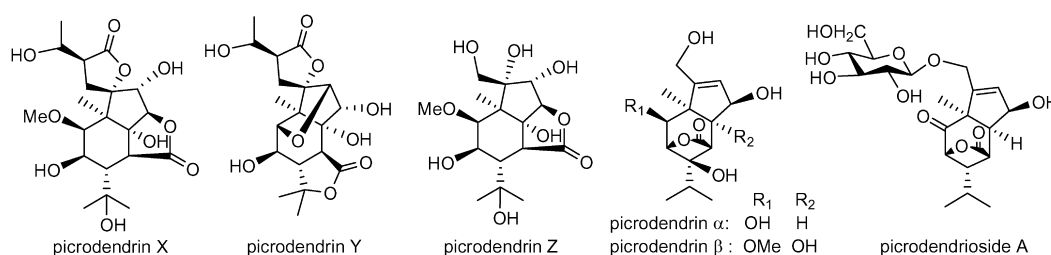


Tetrahedron 59 (2003) 5953

New picrotoxane terpenoids from *Picrodendron baccatum*

Yumiko Suzuki, Kazuo Koike, Masako Nagahisa and Tamotsu Nikaido*

Faculty of Pharmaceutical Sciences, Toho University, 2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan



Tetrahedron 59 (2003) 6019

Structure and isomerization in 4,4'-biimidazoles: a comparison of crystal structures and theoretical calculations of 2,2'-dimethyl-4,4'-biimidazole and 2,2'-dimethyl-4,4'-biimidazolium bis-trifluoroacetate

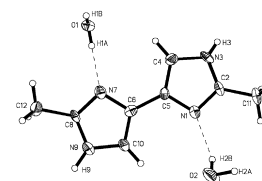
Weidong Zhang,^a Christopher P. Landee,^b Roger D. Willett^c and Mark M. Turnbull^{a,d,*}

^a*Carlson School of Chemistry and Biochemistry, Clark University, 950 Main St., Worcester, MA 01610, USA*

^b*Department of Physics, Clark University, 950 Main St., Worcester, MA 01610, USA*

^c*Department of Chemistry, Washington State University, Pullman, WA, USA*

^d*Department de Química Física, Facultat de Química, Universitat de Barcelona, Av. Diagonal 647, 08028 Barcelona, Spain*



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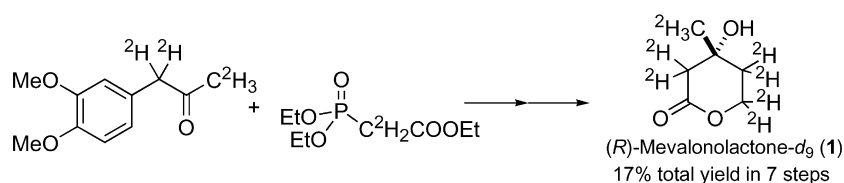
Practical enantioselective synthesis of fully deuterated (*R*)-mevalonolactone

Tadashi Eguchi,^{a,*} Eriko Watanabe^a and Katsumi Kakinuma^b

^a*Department of Chemistry and Materials Science, Tokyo Institute of Technology, O-okayama, Meguro-ku, Tokyo 152-8551, Japan*

^b*Department of Chemistry, Tokyo Institute of Technology, O-okayama, Meguro-ku, Tokyo 152-8551, Japan*

Practical enantioselective synthetic method of fully deuterated (*R*)-mevalonolactone has been developed based upon Sharpless asymmetric epoxidation. (*R*)-Mevalonolactone-*d*₉ **1** was prepared on multi-gram scale in seven steps in 17% overall yield.



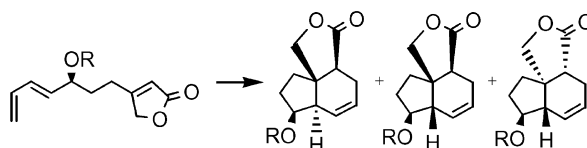
Tetrahedron 59 (2003) 6035

Intramolecular Diels–Alder reaction leading to tricyclic derivatives as intermediates of natural products synthesis

Junichi Shiina and Shigeru Nishiyama*

Department of Chemistry, Faculty of Science and Technology, Keio University, Hiyoshi 3-14-1, Kohoku-ku, Yokohama 223-8522, Japan

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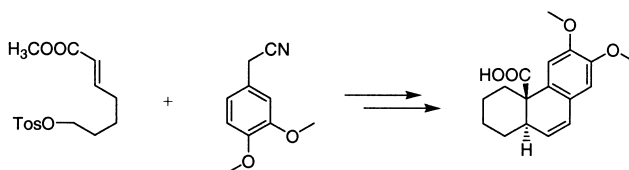


A facile synthetic approach to the core structure of 6,7-didehydrocarnosic acid type derivatives

Andreas Luxenburger

Institut für Organische Chemie, Universität des Saarlandes, Im Stadtwald, P.O. Box 151150, D-66041 Saarbrücken, Germany

Tetrahedron 59 (2003) 6045



General synthesis of *n*-membered cyclic sulfamides

Zine Régaïnia,^{a,b} Jean-Yves Winum,^a Fatma-Zohra Smaine,^{a,b} Loïc Toupet,^c
Nour-Eddine Aouf^b and Jean-Louis Montero^{a,*}

^aLaboratoire de Chimie Biomoléculaire, UMR 5032, Université Montpellier II, ENSCM, 8 Rue de l'Ecole Normale, 34296 Montpellier Cedex – France

^bLaboratoire de Chimie Bioorganique, Université d'Annaba, BP 12 Annaba – Algeria

^cGroupe Matière Condensée et Matériaux, UMR 6626, Université de Rennes I, Campus de Beaulieu, Avenue du Général Leclerc, 35042 Rennes Cedex – France

Tetrahedron 59 (2003) 6051

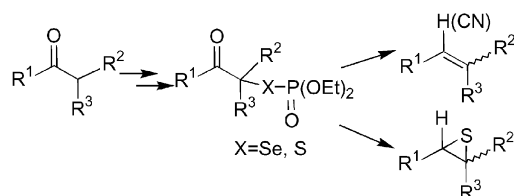
General method for the synthesis of *n*-membered cyclic sulfamides (cyclosulfamides) is described. An application to the synthesis of constrained peptidal cyclic sulfamide is illustrated.

A general and stereoselective method for synthesis of tri- and tetrasubstituted alkenes

I. Maciągiewicz, P. Dybowski and A. Skowrońska*

Centre of Molecular and Macromolecular Studies, Department of Heteroorganic Chemistry, Polish Academy of Sciences, 90-363 Łódź, Sienkiewicza 112, Poland

Tetrahedron 59 (2003) 6057

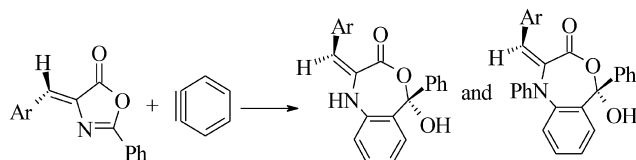


New cycloaddition reaction between 4-arylidene-2-phenyl-5(4H)-1,3-oxazolones and benzyne; facile synthesis of 1,4(H)-benzoxazepine-2-ones and their N-phenyl derivatives

Ashraf A. Aly

Department of Chemistry, Faculty of Science, El-Minia University, El-Minia, A. R. Egypt

Tetrahedron 59 (2003) 6067

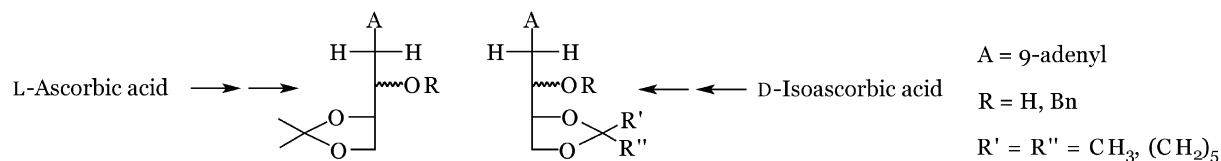


Synthesis of enantiomeric 9-(2',3',4'-trihydroxybutyl)adenine derivatives from L-ascorbic and D-isoascorbic acids

Andrzej E. Wróblewski* and Wiesława Karolczak

Biorganic Chemistry Laboratory, Faculty of Pharmacy, Institute of Chemistry, Medical University of Łódź, 90-151 Łódź, Muszyńskiego 1, Poland

Tetrahedron 59 (2003) 6075

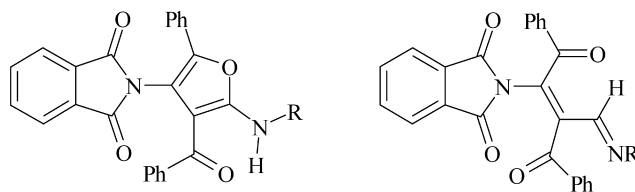


Reaction between alkyl isocyanides and dibenzoylacetylene in the presence of strong NH-acids: synthesis of highly functionalized aminofurans

Issa Yavari,* Abdolali Alizadeh, Mohammad Anary-Abbasinejad and Hamid R. Bijanzadeh

Department of Chemistry, University of Tarbiat Modarres, P.O. Box 14115-175, Tehran, Iran

Tetrahedron 59 (2003) 6083



Synthesis of a phosphotyrosyl analogue having χ_1 , χ_2 and ϕ angles constrained to values observed for an SH2 domain-bound phosphotyrosyl residue

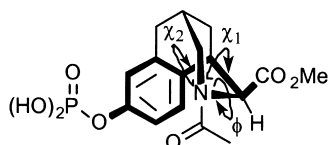
Xiang-Zhu Wang,^a Zhu-Jun Yao,^a Hongpeng Liu,^b Manchao Zhang,^b Dajun Yang,^b Clifford George^c and Terrence R. Burke, Jr.^{a,*}

^aLaboratory of Medicinal Chemistry, Center for Cancer Research, National Cancer Institute, National Institutes of Health, NCI-Frederick, P.O. Box B, Bldg 376 Boyles St., Frederick, MD 21702-1201, USA

^bDepartment of Hematology/Oncology, University of Michigan Medical School, Ann Arbor, MI 48109, USA

^cLaboratory for the Structure of Matter, Naval Research Laboratory, Washington, DC 20375, USA

Tetrahedron 59 (2003) 6087



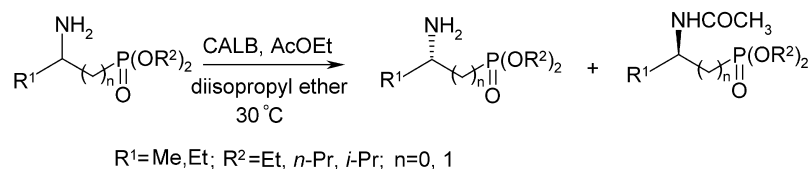
Enzymatic synthesis of optically active 1- and 2-aminoalkanephosphonates

Tetrahedron 59 (2003) 6095

Chengye Yuan,* Chengfu Xu and Yonghui Zhang

Shanghai Institute of Organic Chemistry, Chinese Academy of Science 345 Lingling Lu, Shanghai 200032, People's Republic of China

A number of 1- and 2-aminoalkanephosphonates were resolved with high enantioselectivity through *Candida antarctica* lipase B-catalyzed acetylation.



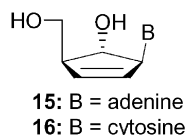
Stereocontrolled synthesis of novel 6'(α)-hydroxy carbovir analogues

Tetrahedron 59 (2003) 6103

Joon Hee Hong,^{a,*} Chang-Hyun Oh^b and Jung-Hyuck Cho^b

^aCollege of Pharmacy, Chosun University, Kwangju 501-759, South Korea

^bMedicinal Chemistry Research Center, Korea Institute of Science and Technology, Seoul 130-650, South Korea



Total chemical synthesis of 2-ethenyl-3,5-dimethylpyrazine and 3-ethenyl-2,5-dimethylpyrazine

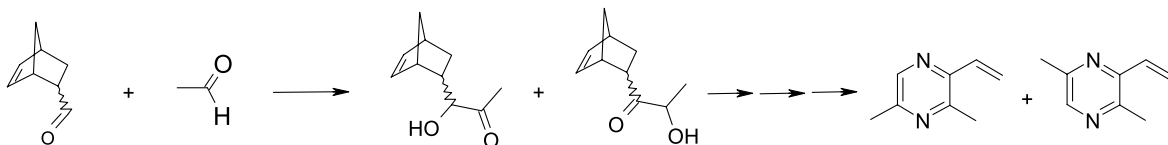
Tetrahedron 59 (2003) 6109

Toshinari H. Kurniadi,^a Rachid Bel Rhlid,^a Marcel-A. Juillerat,^{a,*} Thierry Gefflaut,^b Jean Bolte^b and Ralf G. Berger^c

^aDepartment of Bioscience, Nestlé Research Center, Vers-chez-les-Blanc, P.O. Box: 44, CH-1000 Lausanne 26, Switzerland

^bUMR 6504, Université Blaise Pascal, F-63177 Aubière Cedex, France

^cUniversität Hannover, Wunstorfer Str. 14, D-30453 Hannover, Germany



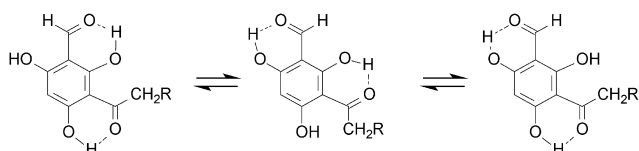
Hydrogen-bonded rotamers of 2',4',6'-trihydroxy-3'-formyldihydrochalcone, an intermediate in the synthesis of a dihydrochalcone from *Leptospermum recurvum*

Tetrahedron 59 (2003) 6113

Kamarul' Ain Mustafa,^a Henrik G. Kjaergaard,^a Nigel B. Perry^b and Rex T. Weavers^{a,*}

^aDepartment of Chemistry, University of Otago, P.O. Box 56, Dunedin 9001, New Zealand

^bDepartment of Chemistry, Plant Extracts Research Unit, New Zealand Institute for Crop and Food Research Limited, University of Otago, P.O. Box 56, Dunedin, New Zealand



Efficient combination of task-specific ionic liquid and microwave dielectric heating applied to one-pot three component synthesis of a small library of 4-thiazolidinones

Joan Fraga-Dubreuil and Jean Pierre Bazureau*

Institut de Chimie, Synthèse & Electrosynthèse Organiques 3, Université de Rennes 1, UMR 6510, Bât. 10A, Campus de Beaulieu, CS 74205, (F) 35042 Rennes Cedex, France

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Synthesis of *meso*-furyl porphyrins with N₄, N₃S, N₂S₂ and N₃O porphyrin cores

Iti Gupta and Mangalampalli Ravikanth*

Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400076, India

Synthesis of a series of *meso*-furyl porphyrins with N₄, N₂S₂, N₃S, N₃O porphyrin cores and the comparison of electronic properties with those of *meso*-aryl porphyrins are described.

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