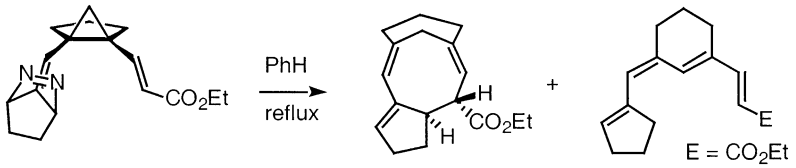
Vinylcyclopropyl TMM diyls: access to eight-membered rings

Tetrahedron Letters 42 (2001) 4095

Peter Jay Mikesell and R. Daniel Little*

Department of Chemistry and Biochemistry, University of California Santa Barbara, Santa Barbara, CA 93106, USA

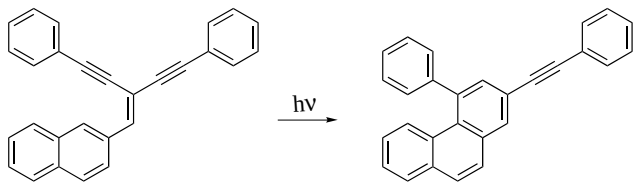


Photocyclization of a conjugated triaryl 'Y-enyne'

Tetrahedron Letters 42 (2001) 4099

Bilal R. Kaafarani and Douglas C. Neckers*

Center for Photochemical Sciences, Bowling Green State University, Bowling Green, OH 43403, USA



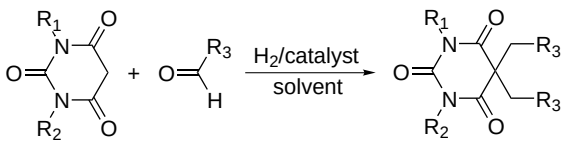
Reductive *C*-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts

Tetrahedron Letters 42 (2001) 4103

Branko S. Jursic* and Donna M. Neumann

Department of Chemistry, University of New Orleans, New Orleans, LA 70148, USA

A general synthetic procedure for the preparation of a wide variety of larger barbituric acids through catalytic reductive alkylation of smaller barbituric acids with carbonyl compounds is described.



Efficient total synthesis of 5-oxo-6(*E*),8(*Z*),11(*Z*),14(*Z*)-eicosatetraenoic acid (5-oxo-ETE), a potent proinflammatory autacoid

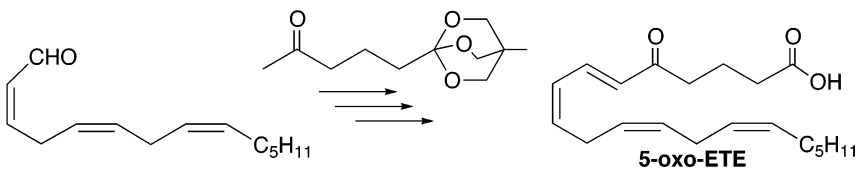
Tetrahedron Letters 42 (2001) 4109

Suchismita Mohapatra,[a] Jorge H. Capdevila,[b] Robert C. Murphy,[c] John M. Hevko[c] and J. R. Falck[a,*]

[a]*Department of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX 75390, USA*

[b]*Departments of Medicine and Biochemistry, Vanderbilt University School of Medicine, Nashville, TN 37232, USA*

[c]*Department of Pediatrics, National Jewish Center for Immunology and Respiratory Medicine, Denver, CO 80206, USA*

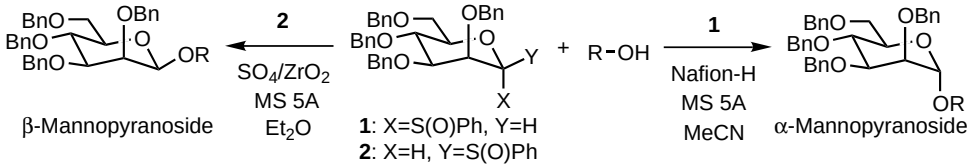


Novel stereocontrolled α- and β-glycosidations of mannopyranosyl sulfoxides using environmentally benign heterogeneous solid acids

Tetrahedron Letters 42 (2001) 4159

Hideyuki Nagai, Kanako Kawahara, Shuichi Matsumura and Kazunobu Toshima*

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

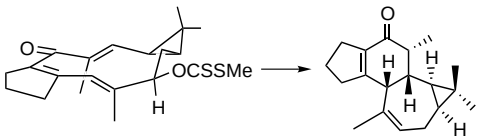


Efforts towards the synthesis of jatrapholane diterpenes: a biomimetic transannular reaction approach

Tetrahedron Letters 42 (2001) 4163

Tomoo Matsuura,[a] Yukimasa Terada[b] and Shosuke Yamamura[a,*]

[a]*Department of Chemistry, Faculty of Science and Technology, Keio University, Yokohama 223-8522, Japan*
[b]*Faculty of Pharmacy, Meijo University, Nagoya 468-8503, Japan*

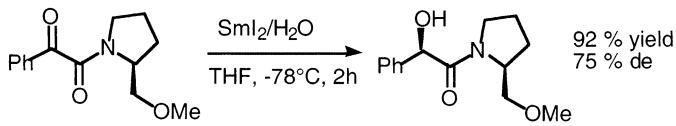


Diastereoselective reduction and carbon–carbon bond formation of α-keto esters/amides with SmI_2

Tetrahedron Letters 42 (2001) 4167

Shin-ichi Fukuzawa,* Manabu Miura and Hiroshi Matsuzawa

Department of Applied Chemistry, Institute of Science and Engineering, Chuo University, Kasuga, Bunkyo-ku, Tokyo 112-8551, Japan

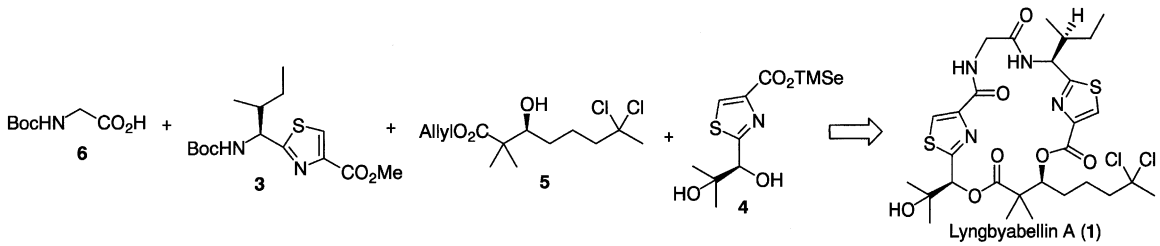


Total synthesis of lyngbyabellin A, a potent cytotoxic metabolite from the marine cyanobacterium *Lyngbya majuscula*

Tetrahedron Letters 42 (2001) 4171

Fumiaki Yokokawa,* Hirofumi Sameshima and Takayuki Shioiri

Faculty of Pharmaceutical Sciences, Nagoya City University, Tanabe-dori, Mizuho-ku, Nagoya 467-8603, Japan

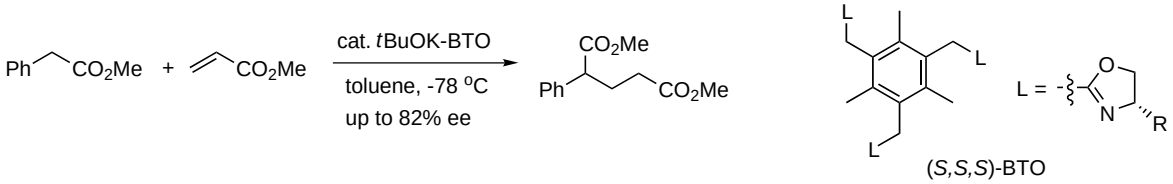


Enantioselective Michael addition catalyzed by chiral tripodal oxazoline–*t*BuOK complexes

Tetrahedron Letters 42 (2001) 4175

Sung-Gon Kim and Kyo Han Ahn*

Department of Chemistry and Center for Integrated Molecular Systems, Division of Molecular and Life Sciences, Pohang University of Science and Technology, San 31 Hyoja-dong, Pohang 790-784, Republic of Korea

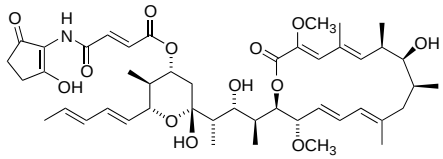


Micromonospolide A, a new macrolide from *Micromonospora* sp.

Tetrahedron Letters 42 (2001) 4179

Emi Ohta,[a] Shinji Ohta,[a,*] Natsuki K. Kubota,[a] Makoto Suzuki,[b] Tatsuhiro Ogawa,[b] Akiko Yamasaki[c] and Susumu Ikegami[c,*]

[a]*Instrument Center for Chemical Analysis, Hiroshima University, 1-3-1 Kagamiyama, Higashi-Hiroshima 739-8526, Japan*
[b]*Tokyo Research Laboratories, Kyowa Hakko Kogyo Co., 3-6-6 Asahi-machi, Machida, Tokyo 194-8533, Japan*
[c]*Department of Applied Biochemistry, Hiroshima University, 1-4-4 Kagamiyama, Higashi-Hiroshima 739-8528, Japan*



Micromonospolide A

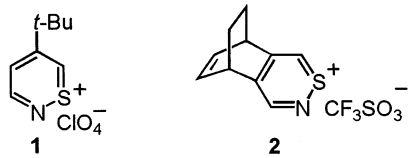
First synthesis of stable 5-alkyl- or 4,5-dialkyl-substituted 1,2-thiazinylium salt

Tetrahedron Letters 42 (2001) 4183

Hiroshi Shimizu,[a,*] Naoyuki Okada[b] and Mitsuhiro Yoshimatsu[b]

[a]*Gifu Pharmaceutical University, 6-1, Mitahora-higashi 5-chome, Gifu 502-8585, Japan*
[b]*Department of Chemistry, Faculty of Education, Gifu University, Yanagido 1-1, Gifu 501-1193, Japan*

The novel 5-*t*-butyl (**1**) and 5,8-ethano-5,8-dihydrobenzo[*d*]-1,2-thiazinylium salts (**2**) were synthesized from the corresponding 5*H*-1,2-thiazines.



1 **2**

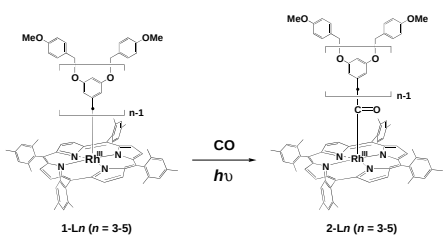
Carbon-centered dendritic radicals: photoinduced reaction of poly(benzyl ether) dendrons σ-bonded to a rhodium(III) porphyrin focal core

Tetrahedron Letters 42 (2001) 4187

Shu-ichi Kimata and Takuzo Aida*

Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, Japan

Poly(benzyl ether) dendrons σ-bonded by the focal dialkoxybenzyl unit to a rhodium(III) porphyrin functionality (**1**-L*n*, $n = 1$, 3–5) were synthesized as novel carbon-centered free radical equivalents. A clear 'dendrimer effect' was observed for the reaction profile of the highest-generation **1**-L5 upon excitation with visible light in a carbon monoxide atmosphere.



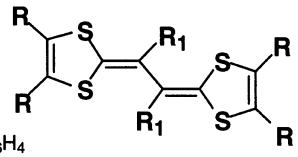
1-L*n* (*n* = 3-5) **2**-L*n* (*n* = 3-5)

Hydroxyphenyl substituted tetrathiafulvalene vinylogues affording stable cation radical salts with unusual crystal structures

Tetrahedron Letters 42 (2001) 4191

Yoshiro Yamashita,[a,*] Masaaki Tomura[b] and Kenichi Imaeda[b]

[a]*Department of Electronic Chemistry, Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology, Nagatsuta, Midori-ku, Yokohama 226-8502, Japan*
[b]*Institute for Molecular Science, Myodaiji, Okazaki 444-8585, Japan*



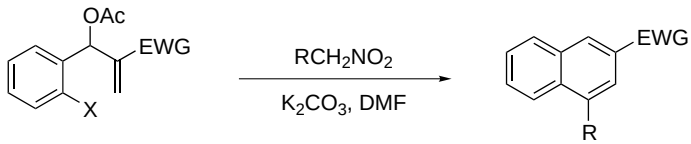
R,R = $(CH=CH)_2$, SCH_2CH_2S
R_1 = *o*-HOC_6H_4, *p*-HOC_6H_4, *o*-$BzOC_6H_4$, *p*-$BzOC_6H_4$

An expedient synthesis of 2-substituted naphthalenes from the Baylis–Hillman adducts

Tetrahedron Letters 42 (2001) 4195

Jae Nyoung Kim,* Yang Jin Im, Ji Hyeon Gong and Ka Young Lee

Department of Chemistry, Chonnam National University, Kwangju 500-757, South Korea



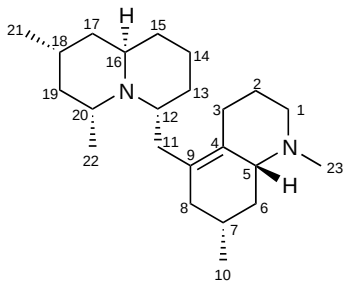
Senepodine A, a novel $C_{22}N_2$ alkaloid from *Lycopodium chinense*

Tetrahedron Letters 42 (2001) 4199

Hiroshi Morita, Yusuke Hirasawa, Naotoshi Yoshida and Jun'ichi Kobayashi*

Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan

A new class of $C_{22}N_2$ *Lycopodium* alkaloid consisting of an octahydroquinoline and a quinolizidine ring, senepodine A (**1**), has been isolated from the club moss *Lycopodium chinense*.



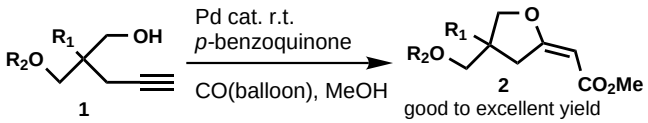
Improved method for the synthesis of (*E*)-cyclic-β-alkoxyacrylates under mild conditions

Tetrahedron Letters 42 (2001) 4203

Keisuke Kato,[a,*] Akira Nishimura,[a] Yasuhiro Yamamoto[b] and Hiroyuki Akita[a,*]

[a]*School of Pharmaceutical Sciences, Toho University, 2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan*
[b]*Department of Chemistry, Faculty of Science, Toho University, 2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan*

Palladium-catalyzed cyclization–methoxycarbonylation of cyclic- and acyclic-4-yn-1-ols **1** under mild conditions afforded (*E*)-cyclic-β-alkoxyacrylates **2** in good to excellent yields.

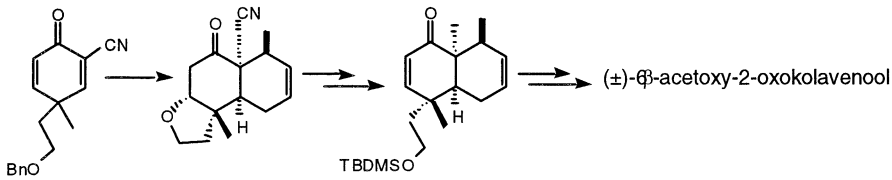


An improved general synthetic approach to *cis*-clerodane diterpenoids. A more efficient total synthesis of (±)-6β-acetoxy-2-oxokolavenool

Tetrahedron Letters 42 (2001) 4207

Jen-Dar Wu, Kak-Shan Shia and Hsing-Jang Liu*

Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan 30043, ROC

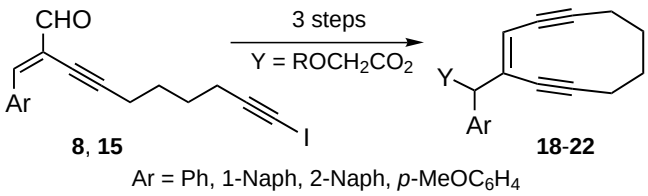


Intramolecular Nozaki–Hiyama–Kishi reactions and Ln(III)-catalyzed allylic rearrangement as the key steps towards 10-membered ring enediynes

Tetrahedron Letters 42 (2001) 4211

Wei-Min Dai,* Anxin Wu and Wataru Hamaguchi

Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China

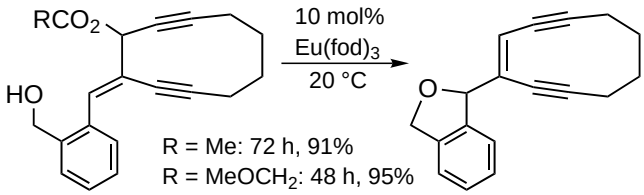


Neighboring nucleophilic group assisted rearrangement of allylic esters under Eu(fod)$_3$ catalysis

Tetrahedron Letters 42 (2001) 4215

Wei-Min Dai,* Anxin Wu, Mavis Yuk Ha Lee and Kwong Wah Lai

Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China

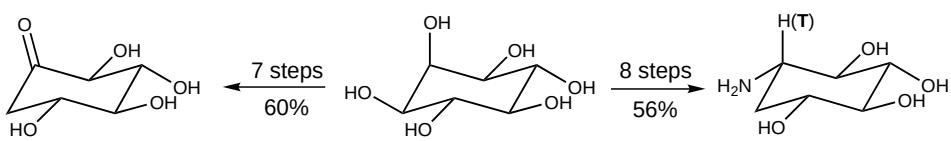


Convenient synthesis of 2-deoxy-*scyllo*-inosose and 2-deoxy-*scyllo*-inosamine: two key intermediates on the biosynthetic pathway to aminoglycoside antibiotics

Tetrahedron Letters 42 (2001) 4219

Jinquan Yu and Jonathan B. Spencer*

Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EW, UK

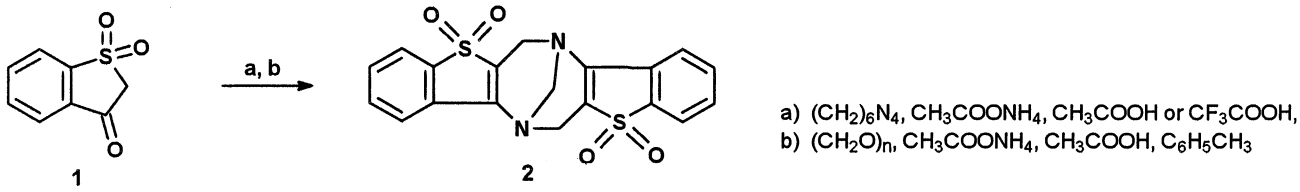


Unusual cyclization of 1-thianaphthenone-3-dioxide-1,1 to a 1,5-diazabicyclo[3.3.1]nonane—a heterocyclic analogue of a Tröger's base

Tetrahedron Letters 42 (2001) 4239

Brigita Čekavičus,* Edvards Liepinsh, Brigita Vīgante, Arkadijs Sobolevs, Jānis Ozols and Gunārs Duburs

Latvian Institute of Organic Synthesis, Aizkraukles 21, Riga LV 1006, Latvia

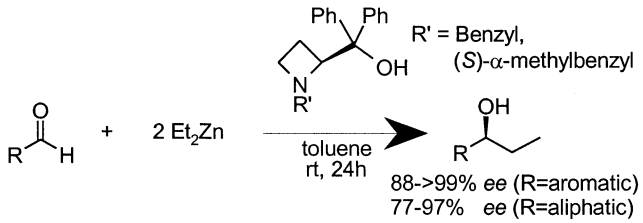


Enantioselective diethylzinc addition to aldehydes using azetidine-derived chiral catalysts

Tetrahedron Letters 42 (2001) 4243

P. J. Hermsen, J. G. O. Cremers, L. Thijs and B. Zwanenburg*

Department of Organic Chemistry, NSR Institute for Molecular Structure, Design and Synthesis, University of Nijmegen, Toernooiveld, 6525 ED Nijmegen, The Netherlands

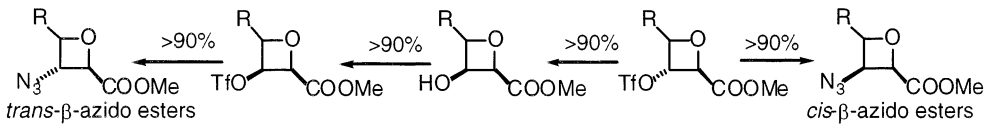


cis- and *trans*-3-Azido-oxetane-2-carboxylate scaffolds: hexamers of oxetane *cis*-β-amino acids

Tetrahedron Letters 42 (2001) 4247

Sarah F. Barker, Donald Angus, Claude Taillefumier, Michael R. Probert, David J. Watkin, Mark P. Watterson, Timothy D. W. Claridge, Natasha L. Hungerford and George W. J. Fleet*

Dyson Perrins Laboratory, Oxford Centre for Molecular Sciences, University of Oxford, South Parks Road, Oxford OX1 3QY, UK

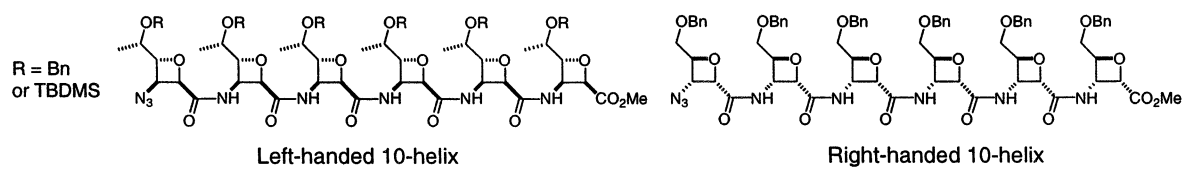


10-Helical conformations in oxetane β-amino acid hexamers

Tetrahedron Letters 42 (2001) 4251

Timothy D. W. Claridge,[a] Jonathan M. Goodman,[b] Andres Moreno,[a] Donald Angus,[a] Sarah F. Barker,[a] Claude Taillefumier,[a] Mark P. Watterson[a] and George W. J. Fleet[a,*]

[a]*Dyson Perrins Laboratory, South Parks Road, University of Oxford, Oxford OX1 3QY, UK*
[b]*University Chemistry Laboratory, Lensfield Road, University of Cambridge, Cambridge CB2 1EW, UK*



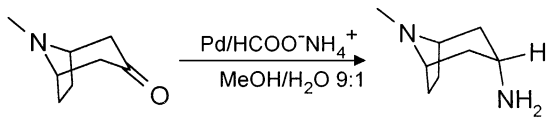
One-pot, new stereoselective synthesis of *endo*-tropanamine

Tetrahedron Letters 42 (2001) 4257

Marcello Allegretti,* Valerio Berdini, M. Candida Cesta, Roberto Curti, Luca Nicolini and Alessandra Topai

Chemistry Department, Dompé S.p.A. Research and Development Centre, Via Campo di Pile, 67100 L'Aquila, Italy

A palladium-catalysed reductive amination of tropanone to 3-*endo*-tropanamine is reported. The procedure is a new, convenient and versatile route for the synthesis of amines from ketones.

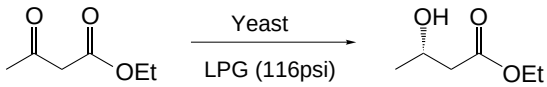


The use of liquefied petroleum gas (LPG) as a solvent for yeast reactions

Tetrahedron Letters 42 (2001) 4261

Melanie K. Johns, Andrew J. Smallridge* and Maurie A. Trewhella

School of Life Science and Technology, Victoria University of Technology, PO Box 14428, Melbourne 8001, Australia



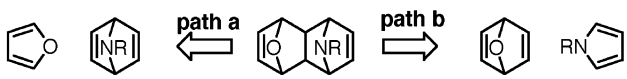
(**1**) (**2**)

The *N,O*-bridged sesquinorbornadienes: a testing ground for establishing the superiority of *N*-Z pyrrole over furan as a dienofuge in retro-Diels–Alder reactions

Tetrahedron Letters 42 (2001) 4263

Ronald N. Warrener,* Davor Margetic and Guangxing Sun

Centre for Molecular Architecture, Central Queensland University, Rockhampton, Queensland, 4702, Australia



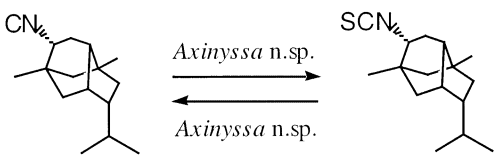
sesquinorbornadiene

Advanced precursors in marine biosynthetic study. Part 2: The biosynthesis of isocyanides and isothiocyanates in the tropical marine sponge *Axinyssa* n.sp.

Tetrahedron Letters 42 (2001) 4267

Jamie S. Simpson and Mary J. Garson*

Department of Chemistry, The University of Queensland, Brisbane, QLD 4072, Australia

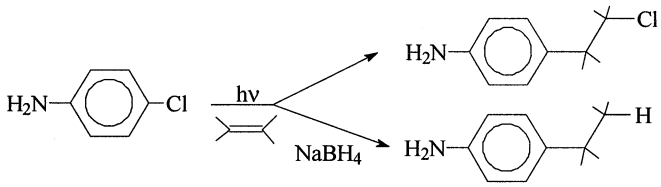


Photochemical conversion of 4-chloroaniline into 4-alkylanilines

Tetrahedron Letters 42 (2001) 4271

Paolo Coppo, Maurizio Fagnoni and Angelo Albini*

Department of Organic Chemistry, University of Pavia, v. Taramelli 10, 27100 Pavia, Italy

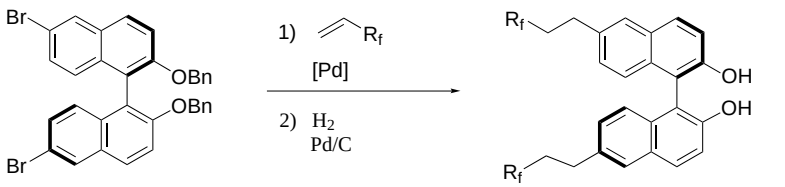


A general method to fluorous ponytail-substituted aromatics

Tetrahedron Letters 42 (2001) 4275

Weiping Chen, Lijin Xu and Jianliang Xiao*

Leverhulme Centre for Innovative Catalysis, Department of Chemistry, University of Liverpool, Liverpool L69 7ZD, UK



$R_f = C_6F_{13}$, C_8F_{17}, > 80% overall yield.