

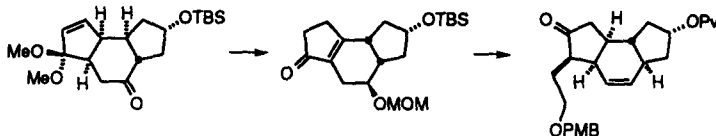
GRAPHICAL ABSTRACTS

SYNTHETIC STUDIES ON SPINOSYN A. CONVENIENT ENANTIOSELECTIVE CONSTRUCTION OF A SUITABLY FUNCTIONALIZED *trans,anti,cis*-DECAHYDRO-*as*-INDACENE INTERMEDIATE VIA [3.3] SIGMATROPY AND DOUBLE CONFIGURATIONAL INVERSION

Tetrahedron Letters, 1997, 38, 1271

Leo A. Paquette,* Zhongli Gao, Zhijie Ni, and Graham F. Smith
Evans Chemical Laboratories, The Ohio State University, Columbus, Ohio 43210

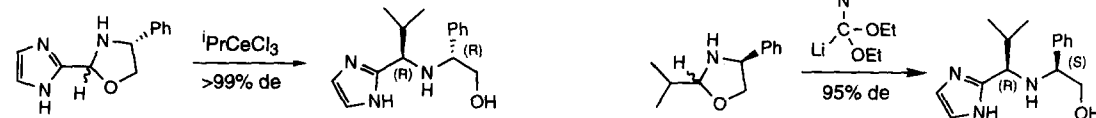
The decahydro-*as*-indacene core of spinosyn A has been synthesized in >99% ee with full stereochemical control.



A Stereospecific Synthesis of Both Enantiomers of 2-(1'-Amino-2'-Methylpropyl) Imidazole, a Key Synthon in the Synthesis of SB 203386; a Potent Protease Inhibitor

Tetrahedron Letters, 1997, 38, 1275

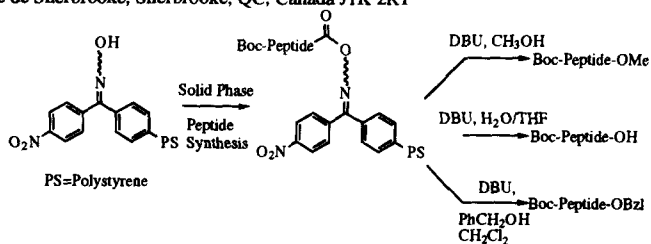
London N. Pridgen,* Mohamed K. Mokhallalati, and Michael A. McGuire
Synthetic Chemistry Department, SmithKline Beecham Pharmaceuticals,
Post Office Box 1539, King of Prussia, Pennsylvania 19406-0939



A USEFUL METHOD FOR THE PREPARATION OF FULLY PROTECTED PEPTIDE ACIDS AND ESTERS.

Tetrahedron Letters, 1997, 38, 1279

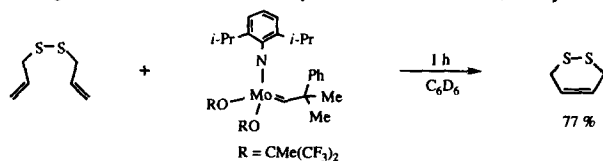
André Pichette, Normand Voyer,* Rémi Larouche, and Jean-Christophe Meillon,
Département de chimie, Université de Sherbrooke, Sherbrooke, QC, Canada J1K 2R1



Catalytic Ring-Closing Olefin Metathesis of Sulfur-Containing Species: Heteroatom and Other Effects. Young-Seok Shon and T. Randall Lee,* Department of Chemistry, University of Houston, Houston, TX 77204-5641

Tetrahedron Letters, 1997, 38, 1283

The ring-closing olefin metathesis of diallyl disulfide leads to 3,6-dihydro-1,2-dithiin.



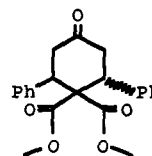
THE CORRECT STEREOCHEMISTRY OF DIMETHYL 2,6-DIPHENYL-4-OXO-CYCLOHEXANE-1,1-DICARB-

OXYLATE. Alex T. Rowland,^{*a} Mark D. Winemiller,^b Michal Sabat^b

^aDepartment of Chemistry, Gettysburg College, Gettysburg, PA 17325 USA

^bDepartment of Chemistry, University of Virginia, Charlottesville, VA 22901 USA

The confusion in the literature concerning the stereochemistry of the title compound has been resolved by X-ray crystallography. The compound is the *trans* isomer.

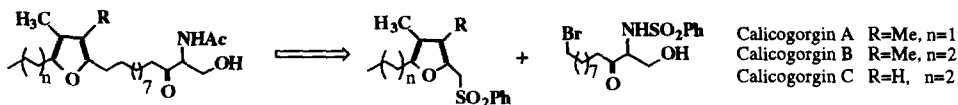


Studies on the Synthesis of Highly Substituted

Furans: The Synthesis of Calicogorgins A and C.

David I. MaGee*, James D. Leach and Tammy C. Mallais, Department of Chemistry, Bag Service #45222, University of New Brunswick, Fredericton, New Brunswick, Canada, E3B 6E2, fax 506-453-4981, email DMAGee@unb.ca.

A short and highly efficient synthesis of calicogorgins A and C has been accomplished. Key features of the synthesis include rapid assembly of the furanyl portion and chemoselective alkylation of a sulfonyl anion to join the two halves of the molecule.

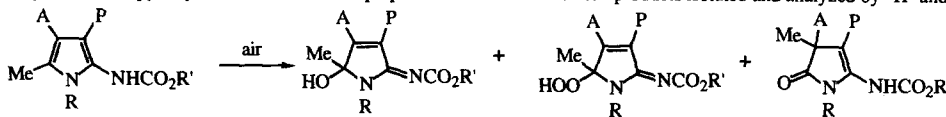


AUTOXIDATION OF PYRROLYLURETHANES.

Clotilde Pichon-Santander, Ramaswamy Shankar and A. Ian Scott.*

Center for Biological NMR, Department of Chemistry, Texas A&M University, College Station, Texas 77843-3255, USA.

Oxygen sensitive pyrrolylurethanes have been prepared and their autoxidation products isolated and analyzed by ¹H- and ¹³C-NMR.

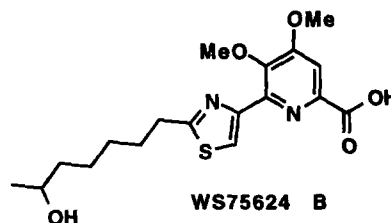


R=H, Me R'=Et, ^tBu, CH₂Ph A=CH₂CO₂Me P=CH₂CH₂CO₂Me

THE TOTAL SYNTHESIS OF THE NATURAL PRODUCT

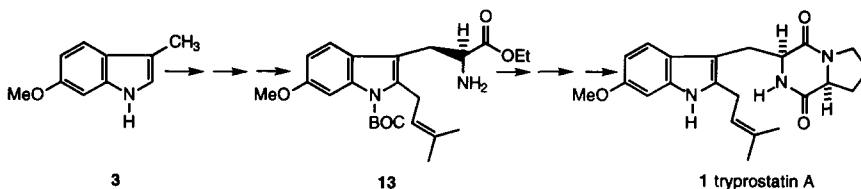
ENDOTHELIN CONVERTING ENZYME (ECE) INHIBITOR,
WS75624 B. William C. Patt* and Mark A. Massa. Department of
Medicinal Chemistry, Parke-Davis Pharmaceutical Research, Division
of Warner-Lambert Company, Ann Arbor, MI 48105.

The first synthesis of WS75624 B an ECE inhibitor produced in a fermentation broth of *Saccharothrix* sp. No. 75624 is reported herein. WS75624 B is synthesized in 14 steps from commercially available kojic acid. The synthetic route employed allows for facile substitution at multiple sites on the molecule.



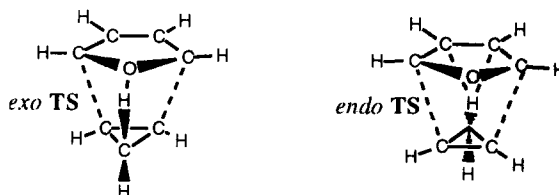
Enantiospecific Total Synthesis of Tryprostatin A.*Tetrahedron Letters*, **1997**, *38*, 1301

Tong Gan and James M. Cook*, Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, WI 53201

**The Importance of Secondary Orbital Interactions in the Stabilization of Isomeric Transition State Structures in the Cyclopropene Addition to Furan.***Tetrahedron Letters*, **1997**, *38*, 1305

Branko S. Jursic, Department of Chemistry, University of New Orleans, New Orleans, Louisiana 70148

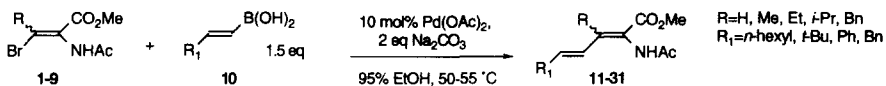
The hybrid and gradient-corrected density functional theory methods have been applied to demonstrate the importance of the secondary orbital interactions for the stereoselectivity of the cyclopropene cycloaddition to furan

**A CONVENIENT CROSS-COUPLING ROUTE TO** **$\alpha,\beta,\gamma,\delta$ -UNSATURATED AMINO ACIDS.** Mark J. Burk,* John G. Allen,

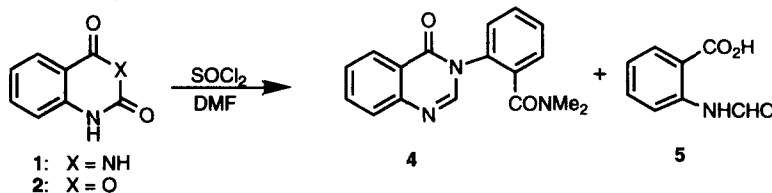
William F. Kiesman* and Karen M. Stoffan, Paul M. Gross Chemical Laboratory, Department of Chemistry, Duke University, Durham, North Carolina 27706 USA

Tetrahedron Letters, **1997**, *38*, 1309

Palladium(0) catalyzed cross-couplings of *E* and *Z* bromoenamide esters **1-9** with several boronic acids gave the dienamide esters **11-31** under mild conditions in good to excellent yields with retention of stereochemistry.

**REACTION OF BENZOYLENEUREA AND ISATOIC ANHYDRIDE WITH THE VILSMEIER REAGENT**

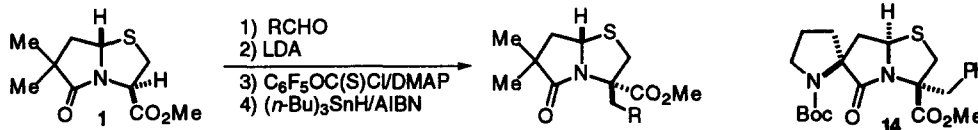
Mahavir Prashad,* Denis Har, Oljan Repic, and Thomas J. Blacklock, Chemical & Analytical Development and Jefferson A. Chin and Michael J. Shapiro, Central Technology, Novartis Pharmaceuticals Corporation, East Hanover, NJ 07936, U.S.A.

Tetrahedron Letters, **1997**, *38*, 1313

Tetrahedron Letters, 1997, 38, 1317

Stereospecific Synthesis of 2-Substituted Bicyclic Thiazolidine Lactams. Nalin L. Subasinghe, Ehab M. Khalil, and Rodney L. Johnson,*
Department of Medicinal Chemistry, University of Minnesota, 308 Harvard Street, S.E., Minneapolis, MN 55455-0343

Bicyclic thiazolidine lactam **1** was used as a model system for developing synthetic methodology into β -turn mimics that would contain side chain functionality. This methodology was applied to the synthesis of the 2-substituted spiro bicyclic thiazolidine lactam type II' β -turn mimic **14**.

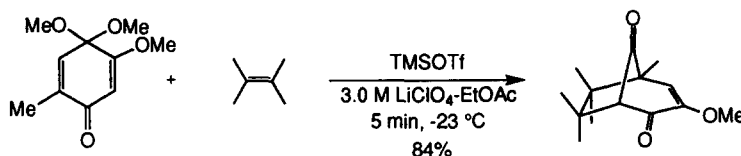


Cationic [5+2] Cycloaddition Reactions Promoted by Trimethylsilyl Triflate in Highly Polar Media

Jon L. Collins, Paul A. Grieco*, and John K. Walker

Department of Chemistry, Indiana University, Bloomington, Indiana 47405

Trimethylsilyl triflate is an effective reagent in 3.0 M lithium perchlorate-ethyl acetate for promoting cationic [5+2] cycloaddition reactions.



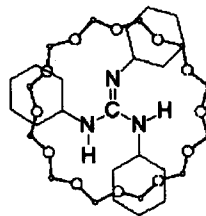
Tetrahedron Letters, 1997, 38, 1321

Encapsulation of *N,N',N''*-Tricyclohexylguanidine in Hydrophobic Zeolite Y: Synthesis and Catalytic Activity

Ricardo Sercheli, Alfredo L. B. Ferreira, Mário C. Guerreiro, Rogério M. Vargas, Roger A. Sheldon and Ulf Schuchardt

Institute of Chemistry, State University of Campinas, Cx. Postal 6154, 13083-970 Campinas (São Paulo), Brazil

N,N',N''-Tricyclohexylguanidine was encapsulated in hydrophobic zeolite Y and catalyzes the addition reaction of acetone to benzaldehyde.

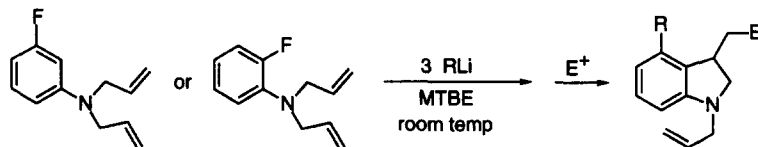


Tetrahedron Letters, 1997, 38, 1325

REACTION OF ORGANOLITHIUMS WITH FLUORO-N,N-DIALLYLANILINES: A BENZYNE-MEDIATED ANIONIC CASCADE LEADING TO 3,4-DISUBSTITUTED INDOLINES

William F. Bailey* and Matthew W. Carson

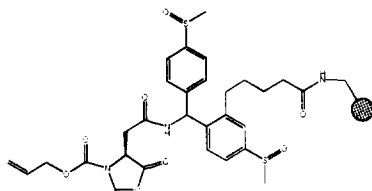
Department of Chemistry, University of Connecticut, Storrs, Connecticut 06269-4060



Tetrahedron Letters, 1997, 38, 1329

Enhanced Resolution in MAS NMR for Combinatorial Chemistry.

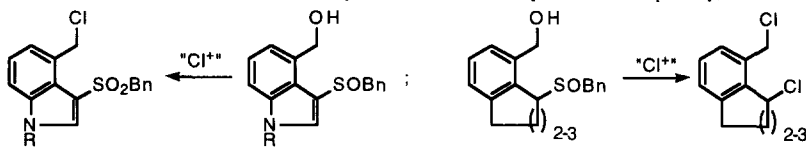
Michael J. Shapiro,* Jefferson Chin[†], Roger E. Marti^{††}, and Mark A. Jarosinski^{††}
 Department of Central Technologies[†] and Oncology Research Program^{††}, Preclinical Research,
 Sandoz Research Institute, Sandoz Pharmaceuticals Corporation, East Hanover, NJ 07936

**The Synthesis of Sultines from δ -Hydroxy Sulfoxides Revisited**

Terrence J. Connolly*, Tony Durst*

Department of Chemistry, University of Ottawa, Ottawa, Ontario, Canada, K1N 6N5

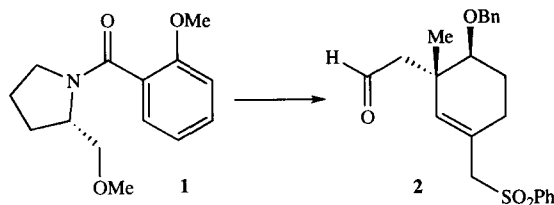
A re-examination of the title transformation has shown that other reactions compete for sultine formation. Using conditions that were successful for sultine formation in the past revealed a more complicated reaction pathway, evident from the products isolated.

**Enantioselective Synthesis of a Taxane C-Ring Component Using the Schultz Asymmetric Birch Reduction Methodology**

Philip Magnus,* Francis Tavares and Nicholas Westwood

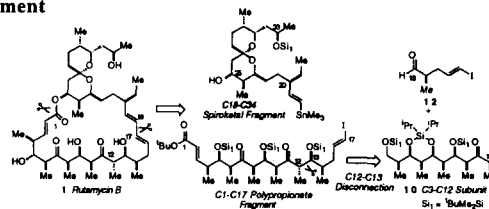
Department of Chemistry and Biochemistry,
 University of Texas at Austin, Austin, Texas 78712.

Birch reduction of **1**, followed by methylation of the amide enolate and subsequent elaboration into **2**, provides a convenient route for the synthesis of the C-ring component of taxol.

**Application of Chiral (*E*)-Crotylsilanes in Synthesis: The Asymmetric Synthesis of the C1-C17 Polypropionate Fragment of Rutamycin B.** Nareshkumar F. Jain and James S. Panek*

Department of Chemistry, Metcalf Center for Science and Engineering,
 590 Commonwealth Avenue, Boston University, Boston, MA 02215

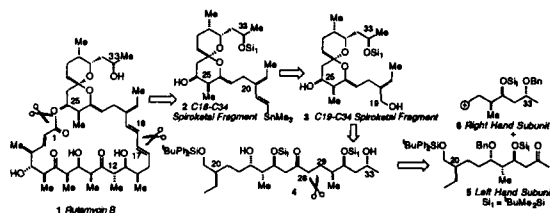
The asymmetric synthesis of the polypropionate fragment of rutamycin B is reported employing chiral allylsilane bond construction methodology for the introduction of six of the nine stereogenic centers. In this paper, the construction of the C3-C12 subunit and its coupling to the aldehyde **12** through a Mukaiyama-type aldol reaction are described.



Application of Chiral (*E*)-Crotylsilanes in Synthesis: The Asymmetric Synthesis of the C19-C34 Spiroketal Fragment of Rutamycin B. Nareshkumar F. Jain and James S. Panek*

Department of Chemistry, Metcalf Center for Science and Engineering, 590 Commonwealth Avenue, Boston University, Boston, MA 02215

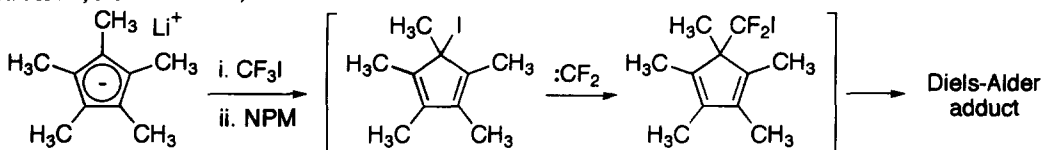
The asymmetric synthesis of the spiroketal fragment of rutamycin B is reported employing allylsilane bond construction methodology for the introduction of five of the eight stereogenic centers. In this paper, the construction of the C19-C28 and C29-C34 fragments as well as their coupling through an alkylation reaction of a lithiated *N,N*-dimethylhydrazone are described.



Tetrahedron Letters, 1997, 38, 1349

An Unusual Alkylation with Trifluoroiodomethane Providing a Difluoroiodomethyl Group

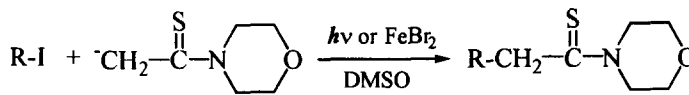
Johnathon E. Letourneau and D. Jean Burnell*
Department of Chemistry, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3X7



Tetrahedron Letters, 1997, 38, 1353

REACTIONS OF N-THIOACETYL MORPHOLINE ANION WITH IODOARENES AND 1-IODOADAMANTANE BY THE S_{RN}1 MECHANISM. Marcelo C. Murguía, and Roberto A. Rossi*. Departamento de Química Orgánica,

Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, A.P. 4, C.C.61, 5000 Córdoba, ARGENTINA.



R = Ph, 1-naphthyl, 1-adamantyl

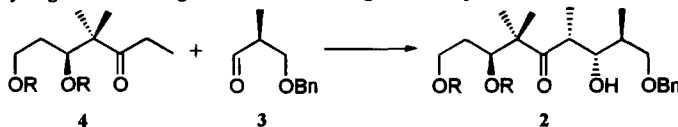
Tetrahedron Letters, 1997, 38, 1355

SYNTHESIS OF THE C1-C9 SEGMENT OF EPOTHILONS.

Eckhard Claus, Axel Pahl, Peter G. Jones*, Hartmut M. Meyer,*

Markus Kalesse*, Institut für Organische Chemie, Universität Hannover, Schneiderberg 1B, D-30167 Hannover (Germany) and *Technische Universität Braunschweig, Institut für Anorganische und Analytische Chemie, Hagenring 30, D-38106 Braunschweig (Germany)

Aldol reaction of key fragments 3 and 4 generates the C1-C9 segment 2 of epothilons.



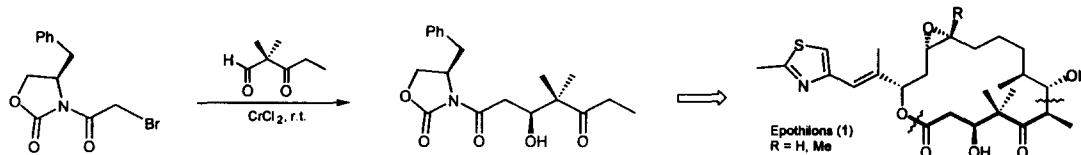
Tetrahedron Letters, 1997, 38, 1359

THE CHROMIUM-REFORMATSKY REACTION: ASYMMETRIC SYNTHESIS OF THE ALDOL FRAGMENT OF THE CYTOTOXIC EPOTHILONS FROM 3-(2-BROMOACYL)-2-OXAZOLIDINONES.

Tobias Gabriel, Ludger Wessjohann*

Institut für Organische Chemie, Ludwig-Maximilians-Universität München, Karlstraße 23, D-80333 München, Germany

Chromium(III) Evans' enolates provide improved, opposite diastereoselectivity and one pot access to C1-C6-Me of the epothilons.

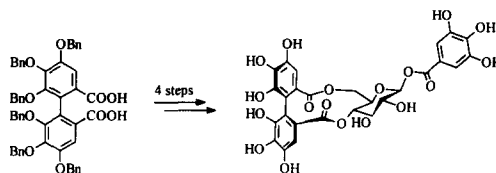


Synthesis of Enantiomerically Pure Strictinin

Using a Stereoselective Esterification Reaction. Karamali Khanbabaee*, Christian Schulz,

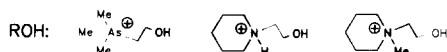
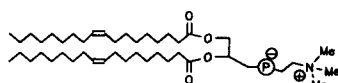
Kerstin Lötzerich, Universität-GH-Paderborn, Fachbereich 13 - Organische Chemie, Warburger Straße 100, 33098

Paderborn, Germany



ENZYMATIC INTRODUCTION OF N-HETEROCYCLIC AND AS-CONTAINING HEAD GROUPS INTO GLYCEROPHOSPHOLIPIDS

Frank Hirche, Angelika Schierhorn, Gerd Scherer, and Renate Ulbrich-Hofmann*, Department of Biochemistry/Biotechnology, University of Halle, D-06099 Halle/S., Germany

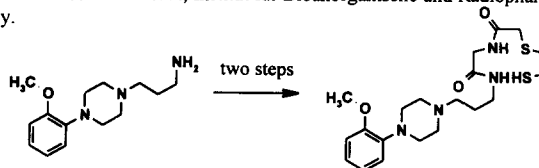


The synthesis of six new glycerophospholipids with choline-analogous head groups by enzymatic transphosphatidylation with phospholipase D (PLD) is described.

A SIMPLE AND EFFICIENT SYNTHESIS OF A DERIVATIZED PSEUDOTRIPEPTIDE CONTAINING A METHYLENE THIOETHER ISOSTERE AND ITS USE FOR THE DESIGN OF BIFUNCTIONAL RHENIUM AND TECHNETIUM CHELATING AGENTS

Matthias Scheunemann* and Bernd Johannsen, Forschungszentrum Rossendorf e.V., Institut für Bioorganische und Radiopharmazeutische Chemie, Postfach 510119, D-01314 Dresden, Germany.

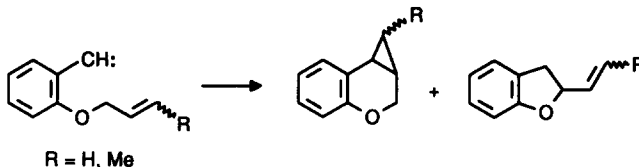
Using a one-pot reaction, a given ω -aminoalkyl compound has been converted to a methylene thioether peptide isostere by two consecutive ring opening reactions:



INTRAMOLECULAR REACTIVITY OF FUNCTIONALIZED ARYL CARBENES: 2-ALLYLOXYPHENYL CARBENES*Tetrahedron Letters, 1997, 38, 1373*

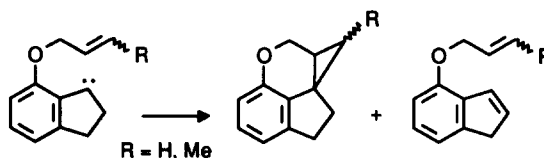
Frank Gotzhein and Wolfgang Kirmse*, Fakultät für Chemie, Ruhr-Universität Bochum, D-44780 Bochum, Germany

The intramolecular reactions of the title carbenes proceed predominantly from the triplet state. Trapping of the singlet carbenes by MeOH indicates that $k_T \sim k_{TS}$.

**INTRAMOLECULAR REACTIVITY OF FUNCTIONALIZED ARYL CARBENES: 7-ALKENYLOXY-1-INDANYLIDENES***Tetrahedron Letters, 1997, 38, 1377*

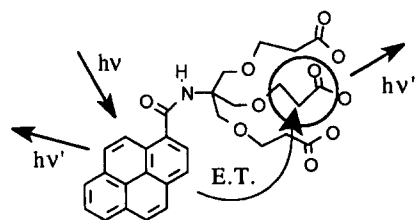
Frank Gotzhein and Wolfgang Kirmse*, Fakultät für Chemie, Ruhr-Universität Bochum, D-44780 Bochum, Germany

The intramolecular reactions of the title carbenes proceed predominantly from the singlet state, even if the carbenes are generated by triplet-sensitized photolysis ($k_T < k_{TS}$).

**SENSITIZED LUMINESCENCE EMISSION OF THE EUROPIUM(III) ION BOUND TO A PYRENE-CONTAINING TRIACID LIGAND.***Tetrahedron Letters, 1997, 38, 1381*

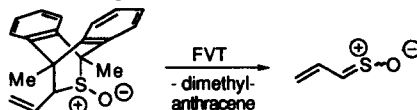
Jean-Ernest Sohna, Frédéric Fages, Photophysique et Photochimie Moléculaire, URA 348 CNRS, Université de Bordeaux I, 33405 Talence Cedex, France

Intracomplex energy transfer is reported to occur between the pyrene chromophore and the bound europium(III) metal ion.

**THIOACROLEIN S-OXIDE***Tetrahedron Letters, 1997, 38, 1385*

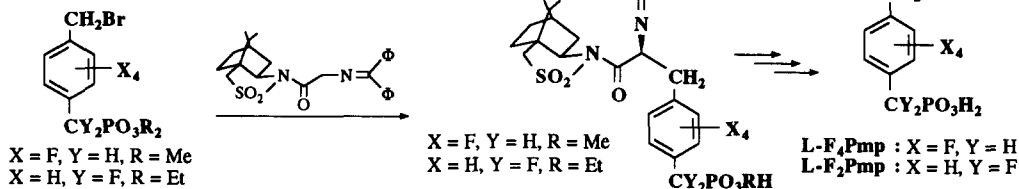
Nadia Pelloux-Léon, Roger Arnaud, Jean-Louis Ripoll, Pierre Beslin and Yannick Vallée*. L.E.D.S.S., Université Joseph Fourier, 38041 Grenoble, France. LCMT, ISMRA, Université de Caen, 14050 Caen, France.

Thioacrolein S-oxide was obtained by FVT of a thiaethanoanthracenic precursor.



SYNTHESIS OF L-2,3,5,6-TETRAFLUORO-4-(PHOSPHONOMETHYL)PHENYLALANINE, A NOVEL NON-HYDROLYZABLE PHOSPHOTYROSINE MIMETIC AND L-4-(PHOSPHONODIFLUOROMETHYL)PHENYLALANINE. Wang-Qing Liu, Bernard P. Roques and Christiane Garbay
 Département de Pharmacochimie Moléculaire et Structurale,
 U266 INSERM - URA D1500 CNRS

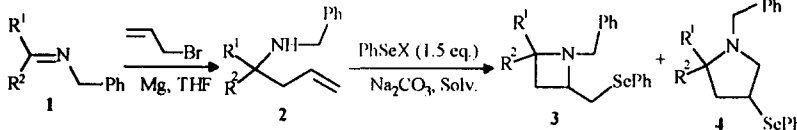
Tetrahedron Letters, 1997, 38, 1389



SYNTHESIS OF AZETIDINES BY ELECTROPHILIC SELENIUM-INDUCED CYCLIZATION OF HOMOALLYLIC BENZYLAMINES
 Bénédicte Berthe, Francis Outurquin and Claude Paulmier*. Laboratoire de Synthèse de Composés Thio- et Sélénoorganiques (I. R. C. O. F). Université de Rouen, UFR Sciences, F-76821 Mont-Saint-Aignan Cedex, France.

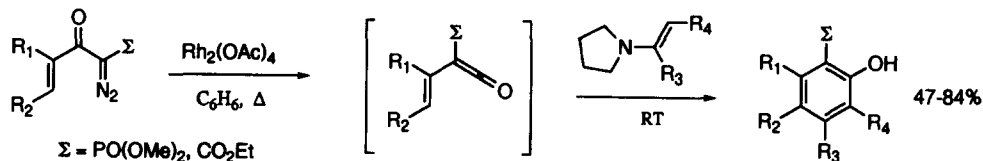
Tetrahedron Letters, 1997, 38, 1393

Azetidines **3** were formed for the first time through a selenium-induced 4-exo cyclization of homoallylic amines **2**.



VINYLKETENE-ENAMINE CYCLOCONDENSATION : A NEW ACCESS TO FUNCTIONALIZED PHENOLS
 Didier Collomb and Alain Doutheau.
 Laboratoire de Chimie Organique. I. N. S. A., 20 av. A. Einstein, 69621 Villeurbanne, France.

Tetrahedron Letters, 1997, 38, 1397



Bis and Tetrakis(6-methyl-1,4-dithiafulven-6-yl) Substituted Tetrathiafulvalenes (TTF) and their Vinylogs as Novel π -Donors

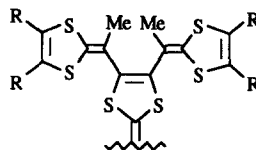
Tetrahedron Letters, 1997, 38, 1399

Philippe Leriche,^a Ahmed Belyasmine,^a Marc Sallé,^a Alain Gorgues,^{a*} Michel Jubault,^a Javier Garín^b and Jesus Orduna^b

^a Laboratoire d'Ingénierie Moléculaire et Matériaux Organiques, CNRS, Université d'Angers, 2 Bd Lavoisier, 49045 Angers, France

^b Departamento de Química Orgánica, Universidad de Zaragoza, CSIC, 50009 Zaragoza, Spain

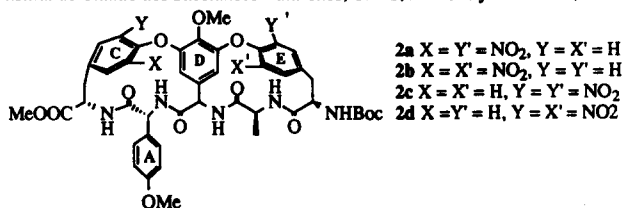
The synthesis and the good π -donor ability of the title compounds are presented.



SYNTHESIS OF FOUR ATROPDIASTEREISOMERS OF C-O-D-O-E RING OF VANCOMYCIN BY SEQUENTIAL CYCLOETHERIFICATIONS

Caroline Vergue, Michèle Bois-Choussy, René Beugelmans, Jieping Zhu*
Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif-Sur-Yvette, France

Tetrahedron Letters, 1997, 38, 1403



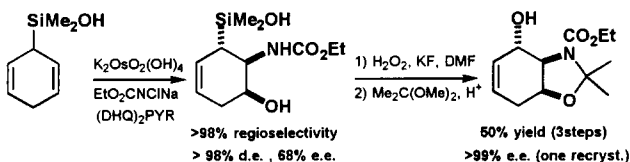
Synthesis of all four atropdiastereoisomers of model bicyclic C-O-D-O-E ring of vancomycin was reported.

ASYMMETRIC AMINO-HYDROXYLATION OF DIENYLSILANES. AN EFFICIENT ROUTE TO AMINO-CYCLITOLS.

Rémy Angelaud, Yannick Landais,* Kurt Schenk.

Institut de Chimie Organique, Université de Lausanne, Collège Propédeutique, 1015 Lausanne-Dorigny, Switzerland.

Tetrahedron Letters, 1997, 38, 1407

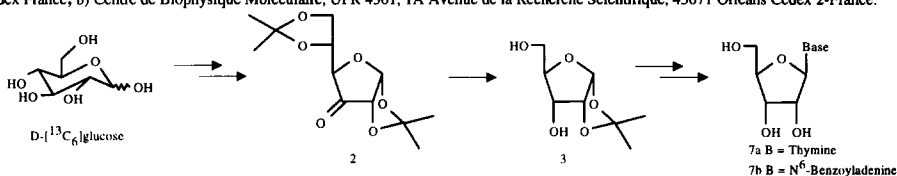


Sharpless asymmetric amino-hydroxylation of a silyl-2,5-cyclohexadiene occurs with complete regio- and diastereocontrol. An enantioselectivity of up to 68% e.e. was also observed. An application of the methodology to the synthesis of relevant examples of amino-cyclitols is described.

A MULTIGRAM, STEREOSELECTIVE SYNTHESIS OF D-[¹³C₅]RIBOSE FROM D-[¹³C₆]GLUCOSE AND ITS CONVERSION INTO [¹³C₅]NUCLEOSIDES.

Luigi A. Agrofoglio,*^a Jean-Claude Jacquinet,^a and Gérard Lancelot^b (a) I.C.O.A. URA 499, UFR Sciences, Université d'Orléans, B.P. 6759, 45067 Orléans-Cedex France; (b) Centre de Biophysique Moléculaire, UPR 4301, 1A Avenue de la Recherche Scientifique, 45071 Orléans Cedex 2-France.

Tetrahedron Letters, 1997, 38, 1411



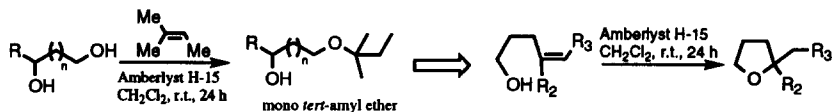
¹³C-labeled ribonucleosides **7a** and **7b** were prepared from D-[¹³C₆]glucose. Dehomologation of di-O-isopropylidene hexofuranose **2** by a "one-pot" reaction (periodic acid and NaBH₄) afforded stereoselectively the labeled ribofuranose derivative **3** in high yield.

From Intermolecular Alcohol Additions on a Double Bond to Electrocyclizations of Non-Activated γ, δ-Unsaturated Alcohols : An Easy Synthesis of Tetrahydrofurans

Xavier Franck, Bruno Figadère*, André Cavé

Laboratoire de Pharmacognosie, associé au CNRS (BIOCIS), Université Paris-Sud, Faculté de Pharmacie, rue J. B. Clément, 92296 Châtenay-Malabry (France)

Tetrahedron Letters, 1997, 38, 1413



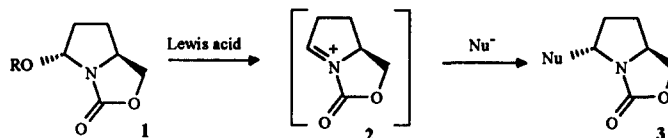
**STEREOSELECTIVE ACCESS TO TRANS-2,5-DISUBSTITUTED
PYRROLIDINE DERIVATIVES BY NUCLEOPHILIC ADDITION TO
BICYCLIC N-ACYLIMINIUM ION**

Hamid Dhimane, Corinne Vanucci and Gérard Lhomet*

Université P. et M. Curie, Laboratoire de Chimie des Hétérocycles, associé au CNRS, 4 Place Jussieu, F 75252 Paris cédex 05 (France)

Tetrahedron Letters, 1997, 38, 1415

Preparation of N-acyliminium precursors 1 and stereoselective nucleophilic displacement of the alkoxy groups are described.

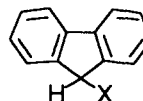


**SOLVOLYSIS OF 9-FLUORENYL BROMIDE AND TOSYLATE.
NUCLEOPHILIC SOLVENT INTERVENTION AND
INSIGNIFICANCE OF ANTIAROMATICITY.**

Kwang-Ting Liu* and Yen-Shyi Lin, Department of Chemistry,
National Taiwan University, Taipei 107, Taiwan, Republic of China

Tetrahedron Letters, 1997, 38, 1419

From the solvolysis of 9-fluorenyl bromide (3) and tosylate (4) the existence of significant solvent intervention in 3 and extensive charge delocalization throughout the fluorenyl ring at both cationic transition states were concluded



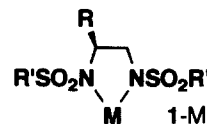
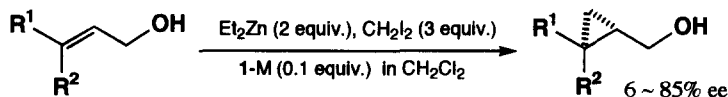
3 : X = Br

4 : X = OTs

**A NEW CHIRAL DISULFONAMIDE LIGAND DERIVED FROM α-AMINO
ACID FOR CATALYTIC ENANTIOSELECTIVE CYCLOPROPANATION**

Nobuyuki Imai,* Katsumasa Sakamoto, Masahiro Maeda, Kazushi Kouge, Kenji Yoshizane, and Junzo Nokami*
Faculty of Engineering, Okayama University of Science, 1-1 Ridai-cho, Okayama 700, Japan

Tetrahedron Letters, 1997, 38, 1423



R¹ = Ph, PhCH₂CH₂, TrOCH₂, Me₂PhSi, Bu₃Sn, H; R² = TrOCH₂, H

R = Me, Me₂CH, Me₃C, Ph, PhCH₂; R' = Me, Ph;

R'' = Me, CF₃, Ph, *p*-MeC₆H₄, *p*-NO₂C₆H₄, 2,4,6-Me₃C₆H₂; M = Zn or Al-Bu-*i*

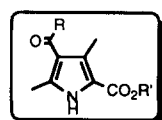
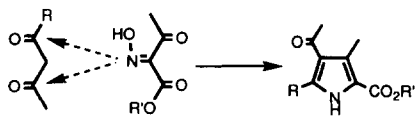
**REGIOSELECTIVE PYRROLE SYNTHESIS FROM β-DIKETONE
AND CONVERSION TO STERICALLY HINDERED PORPHYRIN**

Hiroshi Fujii,* Tetsuhiko Yoshimura, and Hitoshi Kamada

Institute for Life Support technology, Yamagata Technopolis Foundation, Matsuei, Yamagata 990 Japan

Tetrahedron Letters, 1997, 38, 1427

The Knorr condensation of Asymmetric β-diketones afforded pyrroles regioselectively.



Porphyrin

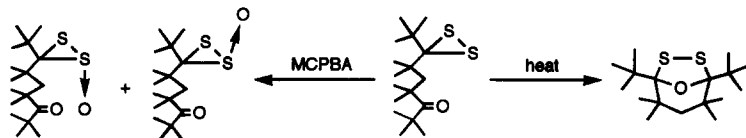
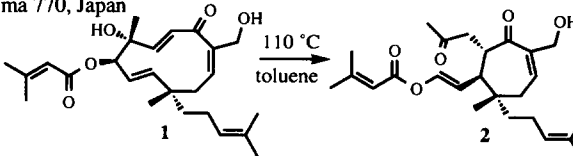
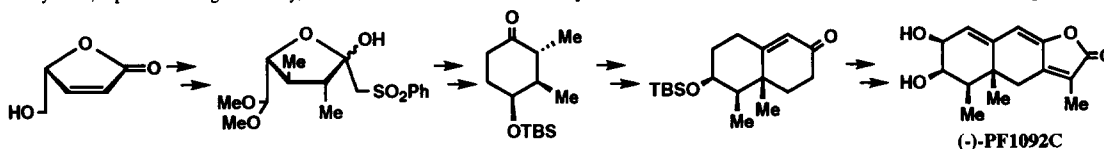
a: R = Et, R' = Et
b: R = *n*-Pr, R' = Et
c: R = *i*-Pr, R' = Et
d: R = *t*-Bu, R' = Et
e: R = *t*-Bu, R' = *t*-Bu
f: R = Ph, R' = Et

PREPARATION AND PROPERTIES OF A 3,3-DIALKYL-DITHIRANE.

Akihiko Ishii, Kazuyo Umezawa and Juzo Nakayama,*

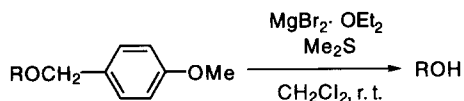
Department of Chemistry, Faculty of Science, Saitama University, Urawa, Saitama 338, Japan

The first 3,3-dialkyldithirane derivative was synthesized, and its oxidation and thermal reactions were examined.

**ABSOLUTE STRUCTURE OF VIBSANIN B AND C, AND THEIR CHEMICAL CORRELATION**Y. Fukuyama,* H. Minami, S. Takaoka, M. Kodama, K. Kawazu[†] and H. Nemoto,[‡] Institute of Pharmacognosy, Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro-cho, Tokushima 770, Japan, [†]Department of Bioresources Chemistry, Okayama University, Tsushima, Okayama 770, Japan, [‡]Faculty of Pharmaceutical Sciences, The University of Tokushima, Kuramoto-cho, Tokushima 770, JapanThe absolute structure of vibsantin C (2) isolated from the leaves of *Viburnum awabuki*, has been established by X-ray crystallographic analysis of its derivative. Vibsantin C has been proved to be one of Cope rearranged products from vibsantin B (1).**TOTAL SYNTHESIS OF PROGESTERONE RECEPTOR LIGANDS, (-)-PF1092A, B AND C**Kuniaki Tatsuta*, Shohei Yasuda, Ken-ichi Kurihara,[†] Kiyoshi Tanabe,[†] Rie Shinei,[†] and Tsuneo Okonogi[†]Graduate School of Science and Engineering, Advanced Research Institute for Science and Engineering, Waseda University, Ohkubo, Shinjuku-ku, Tokyo 169, Japan and [†]Drug Discovery, Pharmaceutical Research Center, Meiji Seika Kaisha, Ltd., Morooka, Kohoku-ku, Yokohama 222, Japan**A MILD AND SELECTIVE DEPROTECTION OF *p*-METHOXYBENZYL (PMB) ETHER BY MAGNESIUM BROMIDE DIETHYL ETHERATE-METHYL SULFIDE**

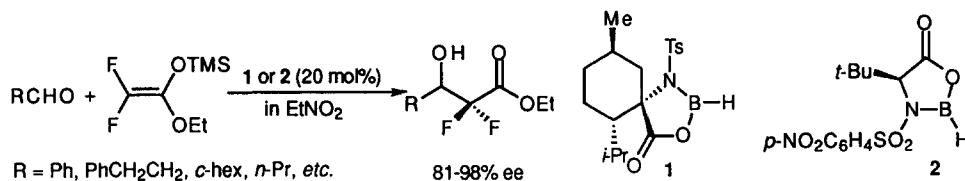
Toshihiko Onoda, Ryuichi Shirai and Shigeo Iwasaki*

Institute of Molecular and Cellular Biosciences, The University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo 113, Japan

The magnesium bromide diethyl etherate ($MgBr_2 \cdot OEt_2$)-methyl sulfide (Me_2S) system is useful for the mild and chemo-selective deprotection of *p*-methoxybenzyl (PMB) ether in the presence of 1,3-diene, *t*-butyldimethylsilyl (TBDMS) ether, benzoate, benzyl ether and acetonide.

ISOLATION OF α,α -DIFLUOROKETENE SILYL ACETAL AND ITS APPLICATION TO ASYMMETRIC ALDOL REACTIONS
 Katsuhiko Iseki,* Yoshichika Kuroki, Daisuke Asada and Yoshiro Kobayashi
 MEC Laboratory, Daikin Industries, Ltd., Miyukigaoka, Tsukuba, Ibaraki 305, Japan

Tetrahedron Letters, 1997, 38, 1447

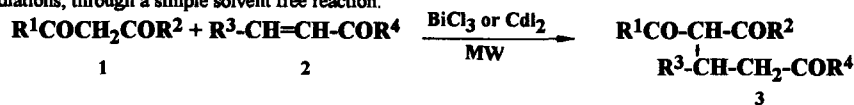


BiCl₃ OR CdI₂ CATALYZED MICHAEL ADDITION OF 1,3-DICARBONYL COMPOUNDS UNDER MICROWAVE IRRADIATIONS

Tetrahedron Letters, 1997, 38, 1449

Bipul Baruah, Anima Boruah, Dipak Prajapati and Jagir S. Sandhu*
 Regional Research Laboratory, Jorhat-785006, Assam, India.

BiCl₃ or CdI₂ proves to be an efficient catalyst for Michael addition of 1,3-dicarbonyl compounds under microwave irradiations, through a simple solvent free reaction.

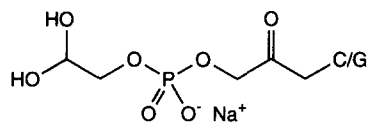


Synthesis of Potentially Prebiotic RNA Precursors: Cytosine and Guanine Derivatives

Tetrahedron Letters, 1997, 38, 1451

John D. Sutherland* and J. Nicole Whitfield
 The Dyson Perrins Laboratory, South Parks Road,
 Oxford OX1 3QY, U.K..

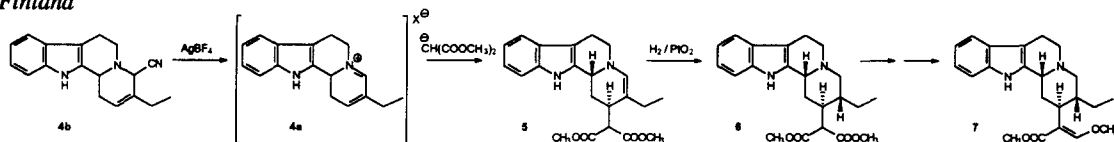
The synthesis of two potentially prebiotic monomers of RNA containing cytosine and guanine is reported.



Short Synthesis of (\pm)-Hirsutine: Direct Addition of Dimethyl Malonate Anion to a 1,4-Conjugate Iminium Salt of Appropriate 3-Ethylindolo[2,3-*a*]quinolizidine

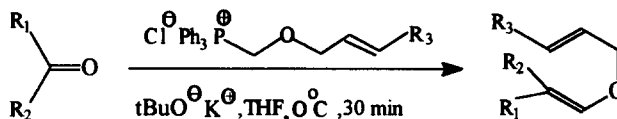
Tetrahedron Letters, 1997, 38, 1455

Mauri Lounasmaa*, Jari Miettinen, Pirjo Hanhinen, and Reija Jokela
 Laboratory for Organic and Bioorganic Chemistry, Technical University of Helsinki, FIN-02150 Espoo, Finland



WITTIG OLEFINATION: AN EFFICIENT ROUTE FOR*Tetrahedron Letters, 1997, 38, 1459***THE PREPARATION OF ALLYL VINYL ETHERS- PRECURSORS FOR THE CLAISEN REARRANGEMENT.**

Mukund G. Kulkarni,* Dhananjay S. Pendharkar
and Ravindra M. Rasne
Department of Chemistry,
University of Pune, Pune 411 007(India)

**DIASTEREOSELECTIVE INTRAMOLECULAR DIELS-ALDER REACTION OF THE FURAN DIENE. A FACILE ACCESS TO ENANTIOPURE EPOXY TETRAHYDROISOINDOLINES.***Tetrahedron Letters, 1997, 38, 1463*

C. Andrés, G. Maestro, J. Nieto, R. Pedrosa,*
S. García-Granda and E. Pérez-Carreño. Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Valladolid. 47011-Valladolid, Spain. Departamento de Química-Física y Analítica. Facultad de Químicas, Universidad de Oviedo, 33006-Oviedo. Spain. Enantiomerically pure isoindoline derivatives were prepared by diastereoselective IMDAF reaction on 2-(2'-furfuryl)-N-acryloyl tetrahydro-1,3-benzoxazine and further elimination of the menthol appendage.

