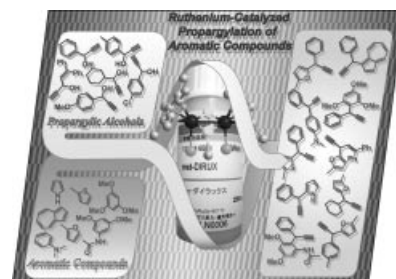


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COVER PICTURE

The cover picture shows that thiolate-bridged diruthenium complexes promote intermolecular and intramolecular propargylation of aromatic compounds with propargylic alcohols to give the corresponding propargylated aromatic compounds in high yields with complete selectivity. The reaction is considered to be an electrophilic substitution of the aromatic compounds by the ruthenium-stabilized propargyl cation. Details are described in the article by Y. Nishibayashi et al. on p. 881 ff.



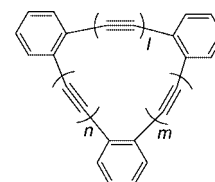
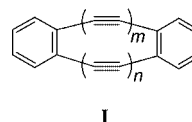
MICROREVIEWS

Contents

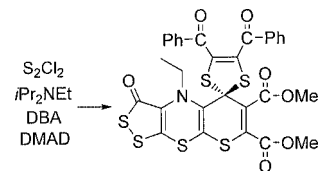
833 I. Hisaki, M. Sonoda, Y. Tobe*

Strained Dehydrobenzoannulenes

Keywords: Alkynes / Annulenes / Fused-ring systems /
 Strained molecules



Heterocyclic Chemistry of Sulfur Chlorides –
Fast Ways to Complex Heterocycles

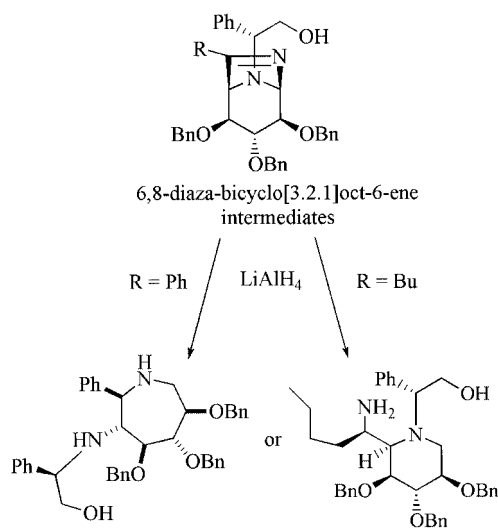


Keywords: Sulfur-nitrogen heterocycles / Materials science / Liquid crystals / Radicals / Fused-ring systems

SHORT COMMUNICATIONS

863 T. Tite, A. Tsimilaza, M.-C. Lallemand,*
F. Tillequin, P. Leproux, F. Libot,
H.-P. Husson*

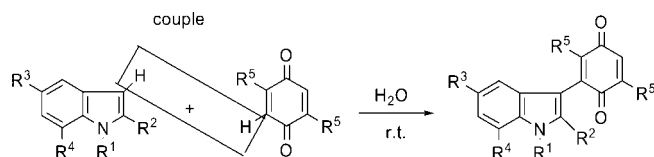
A Selective and Rapid Access to Six- or Seven-Membered Ring Iminosugars via 6,8-Diaza-bicyclo[3.2.1]oct-6-ene Intermediates



Keywords: Iminosugars / Regioselectivity / Ring expansion / Diastereoselectivity

869 H.-B. Zhang, L. Liu, Y.-J. Chen, D. Wang,*
C.-J. Li*

“On Water”-Promoted Direct Coupling of
Indoles with 1,4-Benzoquinones without Catalyst



Keywords: “On water” / Aqueous / No catalyst coupling / C–C bond formation

874 V. Montanari, K. Kumar*



A Fluorous Capping Strategy for Fmoc-Based
Automated and Manual Solid-Phase Peptide
Synthesis

Keywords: Protein design / Peptide synthesis / Organic methodology / Fluorous chemistry / Automated peptide synthesis / Protein engineering

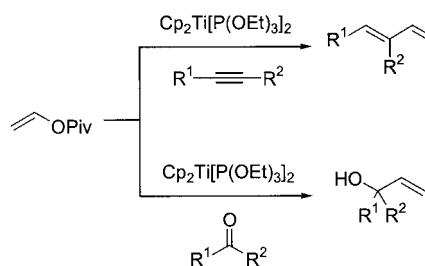


878

A. Ogata, M. Nemoto, K. Arai,
K. Kobayashi, A. Tsubouchi, T. Takeda*

Titanocene(II)-Promoted Cross-Coupling of
Unsaturated Compounds

Keywords: Allylic alcohols / Cross-coupling / Conjugated dienes / Metallacycles / Titanium



FULL PAPERS

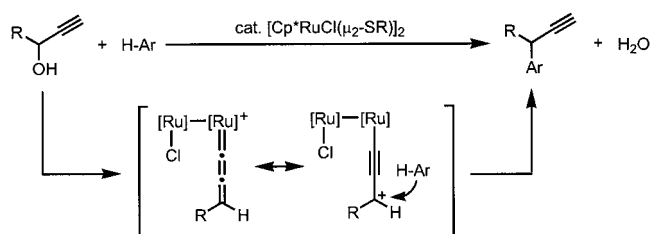
881

Y. Inada, M. Yoshikawa, M. D. Milton,
Y. Nishibayashi,* S. Uemura



Ruthenium-Catalyzed Propargylation of Aromatic
Compounds with Propargylic Alcohols

Keywords: Aromatic substitution / C–C coupling / C–H activation / Ruthenium / Sulfur

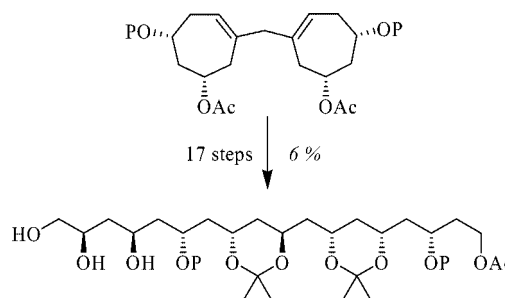


891

S. Gerber-Lemaire,* A. T. Carmona,
K. T. Meilert, P. Vogel

Asymmetric Synthesis of the Polyol Subunit of
the Polyene Macrolide Antibiotic RK-397

Keywords: Antibiotics / Asymmetric synthesis / Dihydroxylation / Natural products / Stereoselective functionalization

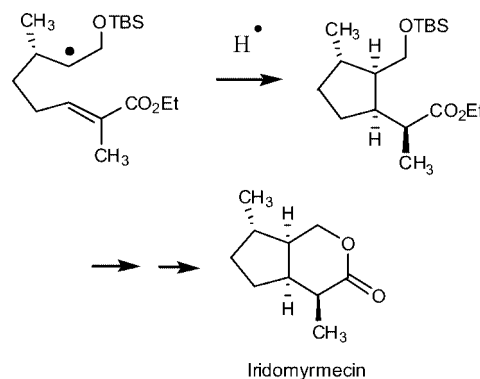


901

B. Schöllhorn, J. Mulzer*

Stereocontrolled Formation of Three Contiguous
Stereogenic Centers by Free Radical
Cyclization – Synthesis of (+)-Iridomyrmecin
and (–)-Iso-iridomyrmecin – Formal Synthesis
of δ-Skythantane

Keywords: Insecticides / Free radical cyclization / Stereoselectivity / α,β -Unsaturated esters / Cyclopentanes / Lactones / Alkaloids

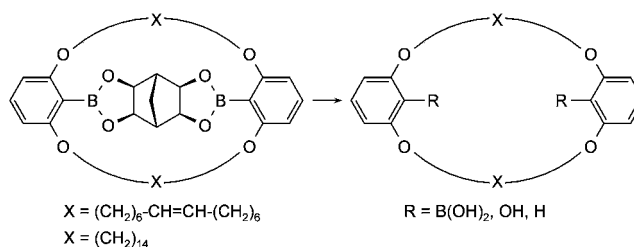


909

S. Lühthje, C. Bornholdt, U. Lüning*

Polyols as Templates for the Synthesis of Macro-
cycles from Boronic Acid Building Blocks

Keywords: Boronic acid / Macrocycles / Metathesis / Templates

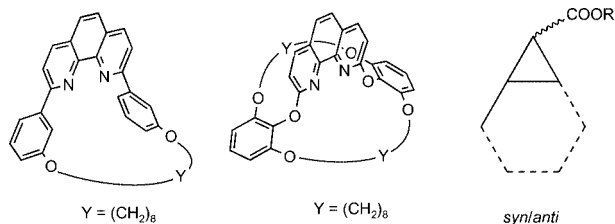


916

U. Lüning,* F. Fahrenkrug

Concave 1,10-Phenanthrolines as Tailored Ligands for Copper(I)-Catalyzed Diastereoselective Cyclopropanations

Keywords: Cyclopropanation / Homogeneous catalysis / Macrocycles / Metathesis / Supramolecular chemistry

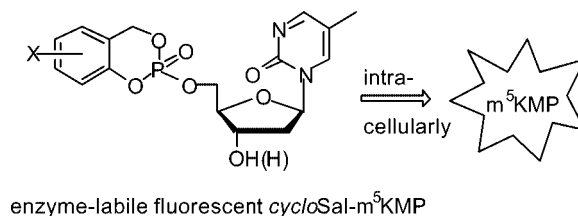


924

H. J. Jessen, W. Fendrich, C. Meier*

Synthesis and Properties of Fluorescent *cycloSal* Nucleotides Based on the Pyrimidine Nucleoside m⁵K and Its 2',3'-Dideoxy Analog dm⁵K

Keywords: Pronucleotides / *cycloSal* triesters / Fluorescence / Nucleosides / Antiviral agents

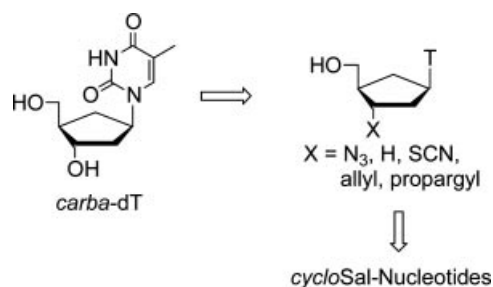


932

O. R. Ludek, J. Balzarini, C. Meier*

Synthesis and Antiviral Evaluation of Carbocyclic 3'-Azidothymidine (AZT) Analogues and Their *cycloSal*-Phosphate Triesters

Keywords: Carbocyclic nucleosides / Prodrugs / *cycloSal*-pronucleotide / Antiviral agents

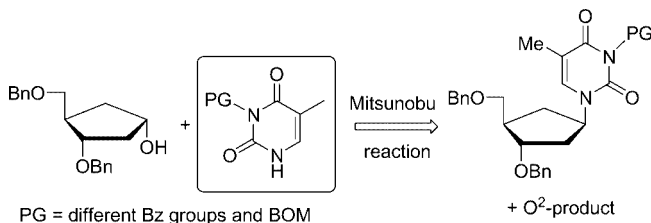


941

O. R. Ludek, C. Meier*

Influence of the N3-Protection Group on N1- vs. O²-Alkylation in the Mitsunobu Reaction

Keywords: Carbocyclic nucleosides / Regioselectivity / Nucleoside analogues / Antiviral agents / Mitsunobu reaction

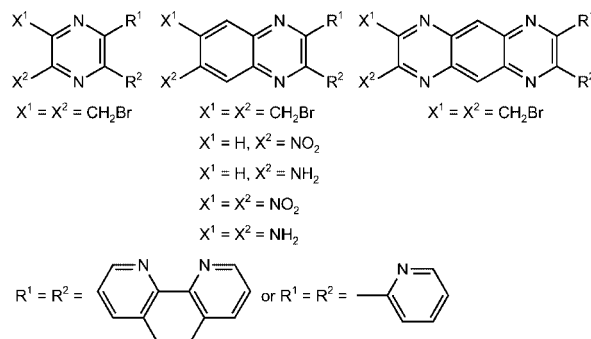


947

A. Kleineweischede, J. Mattay*

Synthesis of Amino- and Bis(bromomethyl)-Substituted Bi- and Tetradentate N-Heteroaromatic Ligands: Building Blocks for Pyrazino-Functionalized Fullerene Dyads

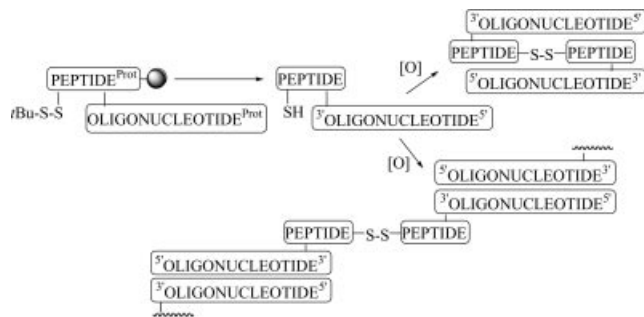
Keywords: Nitrogen heterocycles / Schiff bases / Amines



958 V. Marchán, D. Pulido, E. Pedroso,
A. Grandas*

Linking the 3' Ends of Oligonucleotide
Duplexes with Cystine Disulfide Bridges

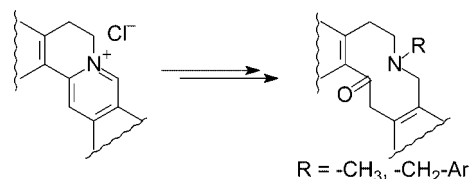
Keywords: Conjugates / Peptides / Oligonucleotides /
3'-linked DNA duplexes / Cysteine



964 M. Valpuesta,* A. Díaz, R. Suau, G. Torres

From Berbines to Protopines: Regiocontrolled
Hofmann Elimination/Hydroboration/Oxidation
of *N*-Substituted Berbinium Salts

Keywords: Alkaloids / Elimination / Hydroboration /
Medium-ring compounds

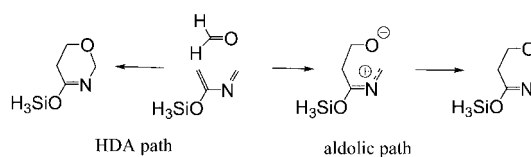


972 A. Bongini,* M. Panunzio



A Hetero Diels–Alder Concerted vs. Aldol
Stepwise Mechanism in the Cyclization of Silyl-
oxyazadienes with Aldehydes: A Theoretical
Study

Keywords: Aldol reaction / Cycloaddition / Density
functional calculations / Nitrogen hetero-
cycles

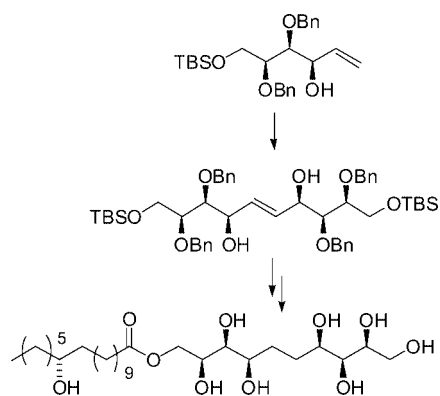


978 K. Neimert-Andersson, P. Somfai*



A Metathesis Approach for the Preparation of
Polyhydroxylated Compounds as Head Groups
in Surfactant Synthesis

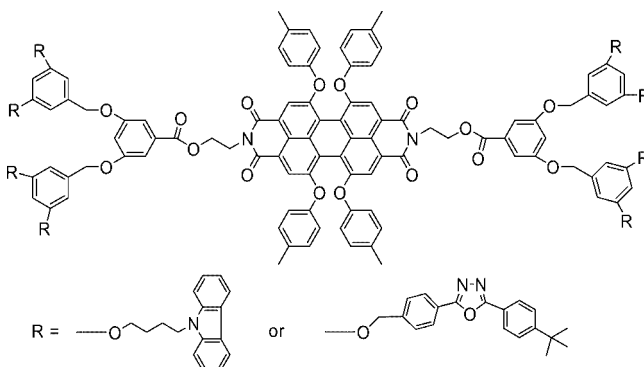
Keywords: Carbohydrates / Metathesis / Protecting
groups / Surfactants / Polyols



986 J. Pan, W. Zhu,* S. Li, J. Xu, H. Tian*

Synthesis of Carrier-Transporting Dendrimers
with Perylenebis(dicarboximide)s as a Lumines-
cent Core

Keywords: Dendrimers / Luminescence / Perylenebis-
(dicarboximide)s / Synthesis

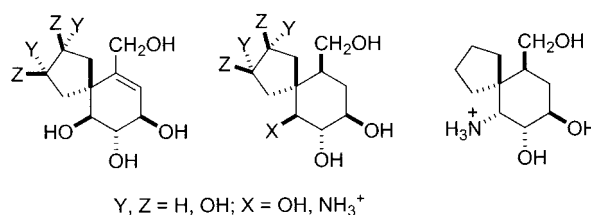


1002 C. González-Bello,* L. Castedo,
F. J. Cañada



Synthesis of Spiro Carba-Sugars by Ring-Closing Metathesis

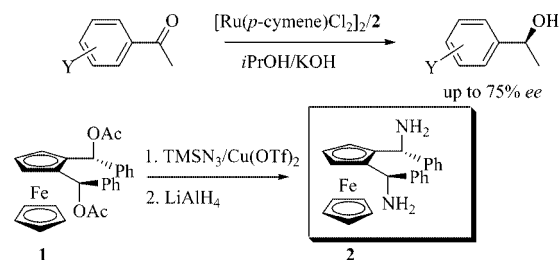
Keywords: Carba-sugars / Ring-closing metathesis / Glycosidase inhibitors



1012 S. Fukuzawa,* T. Suzuki

Preparation of New, Optically Active 1,2-Ferrocenyldiamine Ligands and Their Application to Ruthenium-Catalyzed Asymmetric Transfer Hydrogenation of Ketones

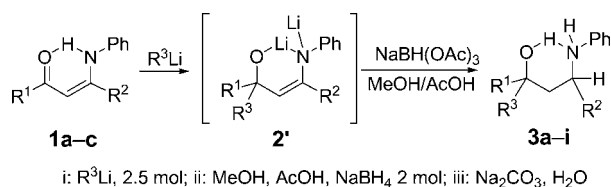
Keywords: Asymmetric synthesis / Ferrocenyl ligands / N ligands / Ruthenium / Transfer hydrogenation



1017 C. Cimarelli,* S. Giuli, G. Palmieri

One-Pot Addition/Reduction Procedure for the Synthesis of γ -Amino Alcohols from β -Enamino Ketones

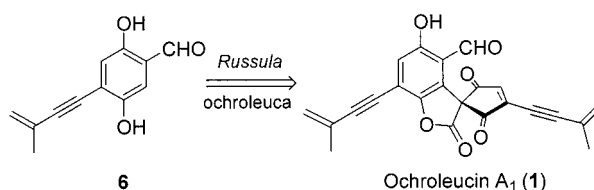
Keywords: γ -Amino alcohols / β -Enamino ketones / Alkylation / Reduction / Conformation analysis



1023 B. Sontag, M. R  th, P. Spiteller, N. Arnold,
W. Steglich,* M. Reichert, G. Bringmann*

Chromogenic Meroterpenoids from the Mushrooms *Russula ochroleuca* and *R. viscida*

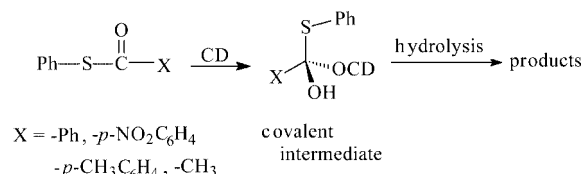
Keywords: Natural products / Meroterpenoids / Mushrooms / Rearrangements / Colour reaction



1034 S. Annalakshmi, K. Pitchumani*

Acceleration of Thiol Ester Hydrolysis by Cyclodextrins: Evidence from Rate and Computational Studies

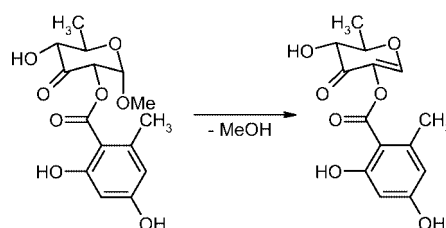
Keywords: Diaryl thiol esters / Cyclodextrins / Hydrolysis / Computational studies / Rate acceleration



1043 O. Schl  rke, A. Zeeck*

Orsellides A–E: An Example for 6-Deoxyhexose Derivatives Produced by Fungi

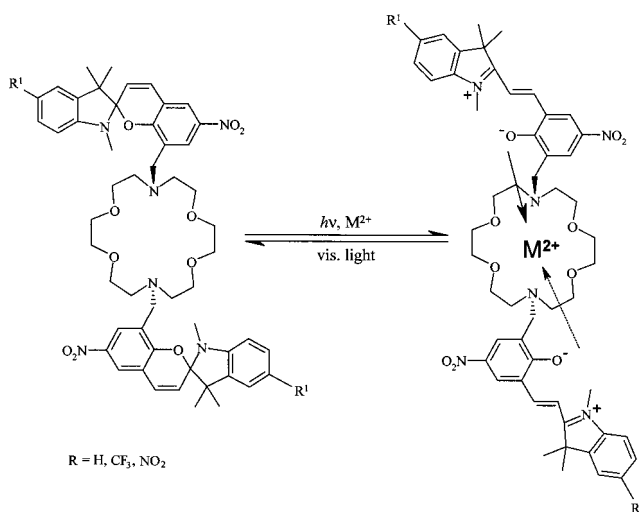
Keywords: Orsellinic acid / Biosynthesis / *Chaetomium* sp. / Deoxy sugar / Secondary metabolites



1050 C. J. Roxburgh,* P. G. Sammes

Synthesis of Some New Substituted Photochromic *N,N'*-Bis(spiro[1-benzopyran-2,2'-indolyl])diazacrown Systems with Substituent Control over Ion Chelation

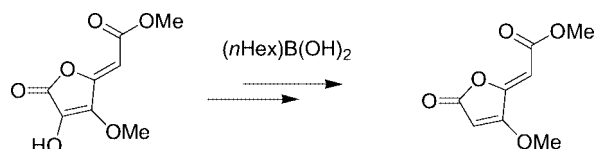
Keywords: Photochromism / Ion chelation / Diazacrown systems / UV/Vis spectroscopy / Spiro compounds



1057 Z. Ahmed, P. Langer*

Defunctionalization of γ -Alkylidene- α -hydroxybutenolides by Palladium(0)-Catalyzed Reaction of Enol Triflates with Hexylboronic Acid

Keywords: Butenolides / Heterocycles / Palladium



CORRECTION

1061 T. Ollevier,* V. Desyroy, B. Debailleul, S. Vaur

Bismuth Triflate Catalyzed Mukaiyama Aldol Reaction in an Ionic Liquid

Keywords: Aldol / Bismuth / Green chemistry / Ionic liquid / Mukaiyama aldol reactions



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