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COVER PICTURE

The cover picture shows three molecules that constitute a thermal reaction network. On the left-hand side the monoterpene hydrocarbon β -pinene is depicted, which occurs in many resins of conifers, e.g. pine (lat. *Pinus*) or spruce. The molecules on the right-hand side, limonene and myrcene, are thermal isomerisation products of β -pinene pyrolysis and have a refreshing odour that is reminiscent of lemon or lime. Myrcene is a component of the essential oil of herbs like oregano, tarragon or hop. The article of B. Ondruschka et al. on p. 3317ff. deals with the thermochemical network based upon the thermal isomerisation of β -pinene.



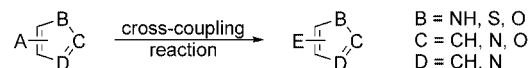
MICROREVIEW

Contents

3283 M. Schnürch, R. Flasik, A. F. Khan,
 M. Spina, M. D. Mihovilovic, P. Stanetty*

Cross-Coupling Reactions on Azoles with Two
 and More Heteroatoms

Keywords: Heterocycles / Nitrogen heterocycles /
 Oxygen heterocycles / Sulfur heterocycles /
 C–H activation



A = B(OR)₂, SnR₃, ZnX,
 halide, triflate...

E = aryl, heteroaryl,
 alkyne, alkene

B = NH, S, O
 C = CH, N, O
 D = CH, N

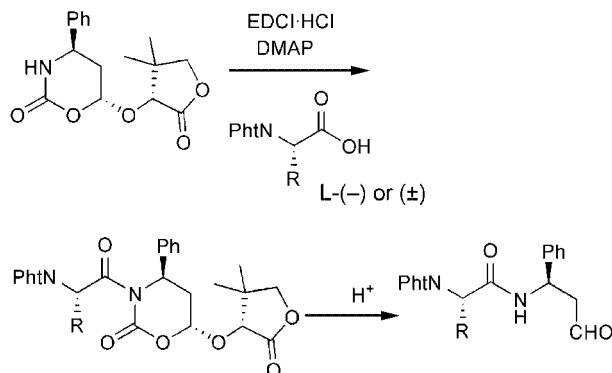
SHORT COMMUNICATIONS

- 3309** B. Yin, R. Dhal, V. Maisonneuve,
G. Dujardin*



Asymmetric Access to Peptidyl β^3 -Aldehydes by Coupling of *N*-Phthalyl α -Amino Acids with a Synthetic Heterocyclic β -Amino Aldehyde Precursor

Keywords: β -Peptide aldehydes / Coupling reactions / Tetrahydrooxazinones / Kinetic resolution

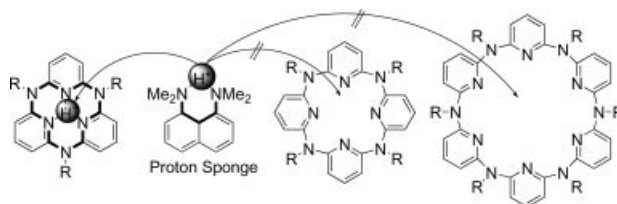


- 3314** T. Kanbara,* Y. Suzuki, T. Yamamoto*



New Proton-Sponge-Like Macrocyclic Compound: Synergistic Hydrogen Bonds of Amino-pyridine

Keywords: Basicity / Hydrogen bonds / Synergistic effects / Pyridine / Protonation



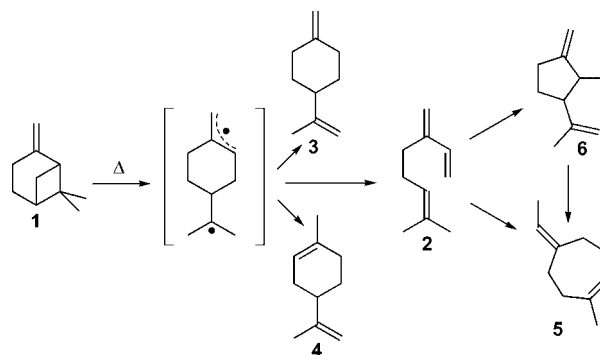
FULL PAPERS

- 3317** A. Stolle, C. Brauns, M. Nüchter,
B. Ondruschka,* W. Bonrath, M. Findeisen



Thermal Behaviour of Selected $C_{10}H_{16}$ Monoterpenes

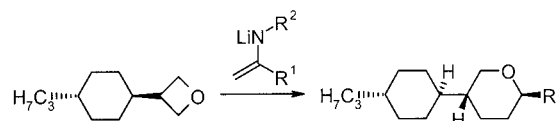
Keywords: Pyrolysis / Terpenes / Radical reactions / Rearrangements / Gas chromatography / Reaction mechanisms



- 3326** P. Kirsch,* D. Maillard

A Convenient Synthetic Route to Tetrahydropyran-Based Liquid Crystals

Keywords: Density functional calculations / Liquid crystals / Mesogens / Oxetane / Tetrahydropyran

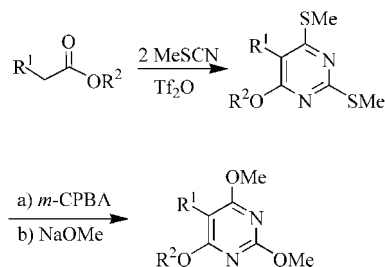


- 3332** A. Herrera, R. Martínez-Alvarez,*
P. Ramiro, J. Almy, D. Molero, A. Sánchez



A New Synthetic Route to Polyalkoxypyrimidines Based on the Reaction of Esters and Methyl Thiocyanate

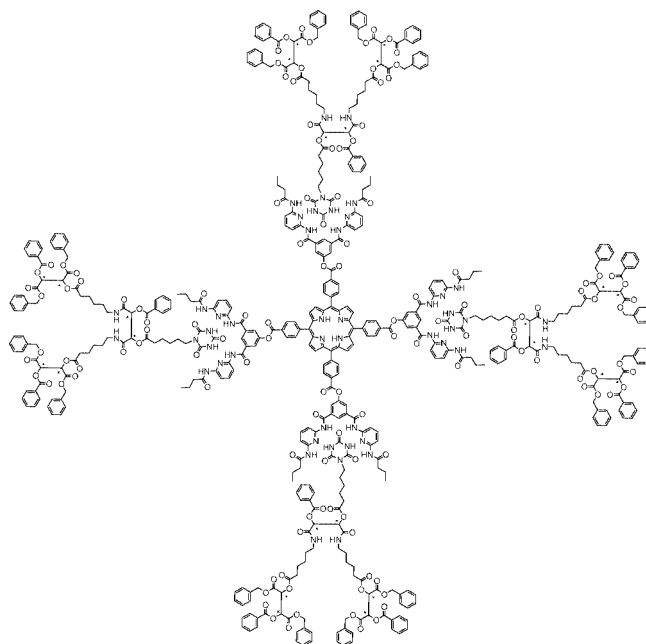
Keywords: Heterocycles / Alkoxypyrimidines / Methyl thiocarbamates / Aromatic nucleophilic substitution / Cyclization / Oxidation



3338 K. Maurer, K. Hager, A. Hirsch*



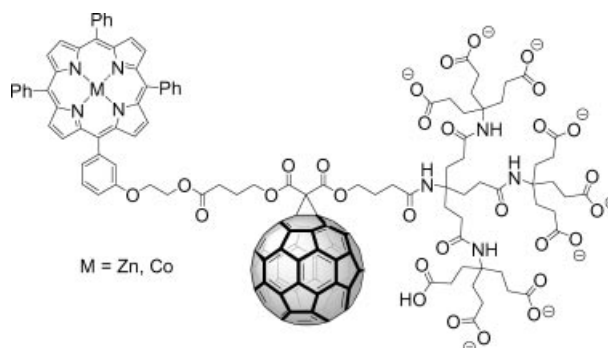
Self-Assembly and Chiroptical Properties of Chiral Dendrimers Consisting of a Hamilton Receptor Substituted Porphyrin and Depsipeptide Cyanurates



Keywords: Dendrimers / Self-assembly / Chirality / Depsipeptides / Porphyrins

3348 C. Kovacs, A. Hirsch*

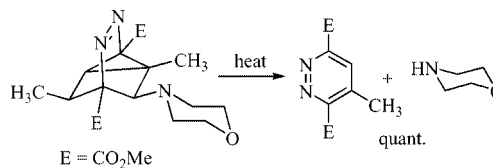
A New Type of Dendritic [60]Fullerene–Metallo-tetraphenylporphyrin Diads (M = Zn, Co)



Keywords: Fullerenes / Porphyrins / Dendrimers / Metal complexes / Diads

3358 Z. Novák, Z. Vincze, Z. Czégény,
G. Magyarfalvi, D. M. Smith, A. Kotschy*

Study of the Formation and Thermal Decomposition of an Azo-Bridged Tricyclic Ring System



Keywords: Cycloadditions / Nitrogen heterocycles / Retro reactions / Molecular modelling

3364 L. García-Río,* A. Godoy,
P. Rodríguez-Dafonte

Influence of the Oil on the Properties of Micro-emulsions as Reaction Media



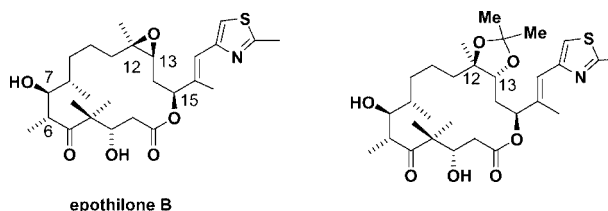
Keywords: Surfactants / Solvolysis / Kinetics / Micro-emulsion

3372 T. Gaich, G. Karig, H. J. Martin, J. Mulzer*



New Solutions to the C-12,13 Stereoproblem of Epothilones B and D; Synthesis of a 12,13-Diol-Acetonide Epothilone B Analog

Keywords: Microtubule stabilizing agent (MSAA) / Antitumor drugs / Ring-closing metathesis / Silicon tether / Epoxide formation / Stereoselective synthesis

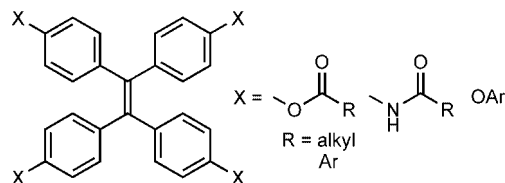


**3395 A. Schreivogel, J. Maurer, R. Winter,*
A. Baro, S. Laschat***



Synthesis and Electrochemical Properties of Tetrasubstituted Tetraphenylethenes

Keywords: Cyclic voltammetry / McMurry reaction / Spectroelectrochemistry / Tetraphenylethenes

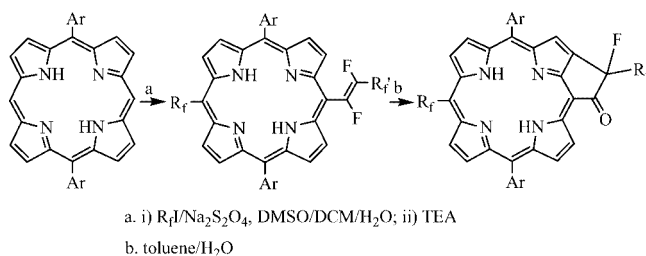


**3405 L.-M. Jin, J.-J. Yin, L. Chen, J.-C. Xiao,
C.-C. Guo,* Q.-Y. Chen***



Unusual Fluoroalkenylation of Porphyrins: A Highly Stereoselective Synthesis of 10,20-Diaryl-5-[(*E*)-fluoroalkenyl]-15-(fluoroalkyl)porphyrins

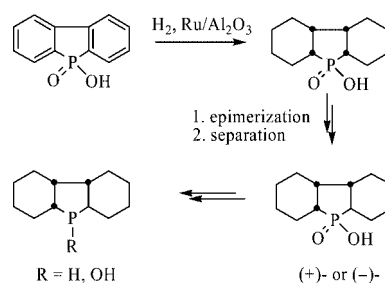
Keywords: (Fluoroalkenyl)porphyrins / Fluoroalkenylation / Fused-ring systems / Cyclization



**3412 N. V. Dubrovina,* H. Jiao, V. I. Tararov,
A. Spannenberg, R. Kadyrov, A. Monsees,
A. Christiansen, A. Börner***

A New Access to Chiral Phospholanes

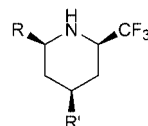
Keywords: Asymmetric Catalysis / Hydrogenation / P ligands / Rhodium / Ruthenium



**3421 A. Bariau, W. B. Jatoi, P. Calinaud,
Y. Troin,* J.-L. Canet***

A Simple Stereoselective Route to α -Trifluoromethyl Analogues of Piperidine Alkaloids

Keywords: Fluorine / Piperidine alkaloids / Intramolecular Mannich reaction / Diastereoselectivity



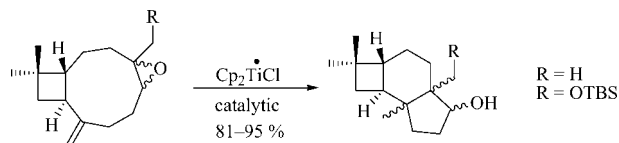
$\text{R} = \text{R}' = \text{H}$, ($\pm$)-trifluoropiecoline
 $\text{R} = n\text{Pr}$, $\text{R}' = \text{H}$, ($\pm$)-trifluorodihydropinidine
 $\text{R} = n\text{Pr}$, $\text{R}' = \text{OH}$
 $\text{R} = n\text{-C}_9\text{H}_{19}$, $\text{R}' = \text{H}$, ($\pm$)-trifluoroisosenolopsin
 $\text{R} = n\text{-C}_9\text{H}_{19}$, $\text{R}' = \text{OH}$, ($\pm$)-trifluoro-241 D

3434

A. F. Barrero,* M. M. Herrador,
J. F. Quílez del Moral, P. Arteaga,
E. M. Sánchez, J. F. Arteaga, M. Piedra

Transannular Cyclization of Epoxycaryophyllenes Catalyzed by Ti^{III} : An Efficient Synthesis of Tricyclo[6.3.0.0^{2,5}]undecanes

Keywords: Terpenoids / Homogeneous catalysis / Radicals / Cyclization / Titanium complexes / Aromatic properties

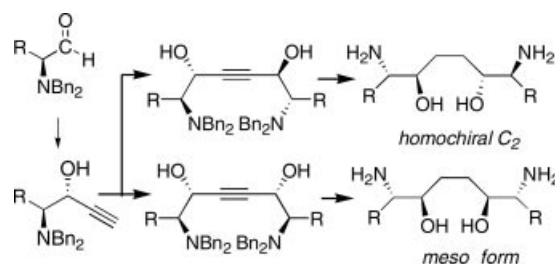


3442

J. M. Andrés, R. Pedrosa,* A. Pérez-Encabo

Diastereoselective Ethynylation of Chiral α -(Dibenzylamino) Aldehydes: Synthesis of *meso*- and Homochiral C_2 -Symmetrical 1,6-Diamino-2,5-diols

Keywords: Amino acids / Amino aldehydes / Asymmetric synthesis / Ethynylation

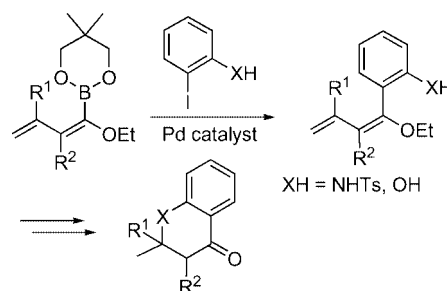


3451

A. Deagostino, V. Farina,* C. Prandi,
C. Zavattaro, P. Venturello*

New Metal-Catalyzed Synthesis of Quinoline and Chromene Skeletons

Keywords: Quinoline / Chromene / Conjugated dienes / Conjugate elimination / Suzuki cross-coupling

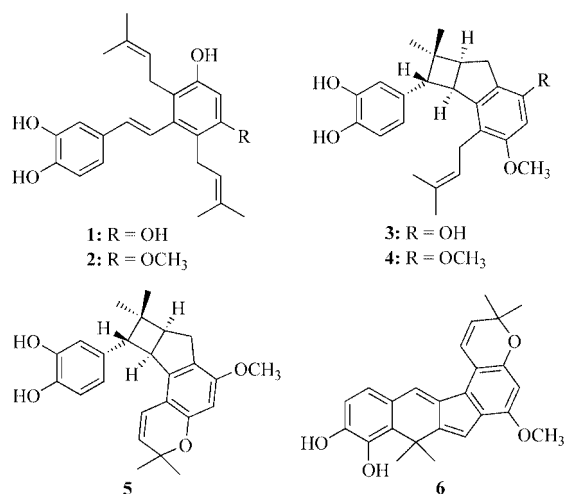


3457

Y.-H. Wang, A.-J. Hou,* D.-F. Chen,
M. Weiller, A. Wendel, R. J. Staples

Prenylated Stilbenes and Their Novel Biogenetic Derivatives from *Artocarpus chama*

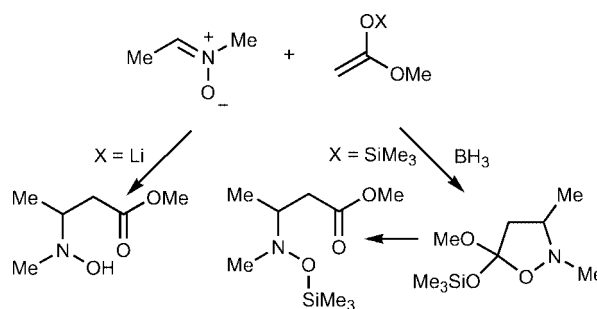
Keywords: *Artocarpus chama* / Stilbene derivatives / Artochamins F–K / Structure elucidation / Biosynthesis / Cytotoxicity



3464 L. R. Domingo,* M. Arnó, P. Merino,*
T. Tejero

A DFT Study of the Molecular Mechanisms of the Nucleophilic Addition of Ester-Derived Lithium Enolates and Silyl Ketene Acetals to Nitrones: Effects of the Lewis Acid Catalyst

Keywords: Acetals / Density functional calculations / Enolates / Nucleophilic addition / Reaction mechanisms

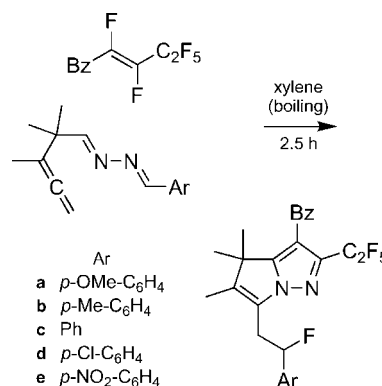


3473 S. Man, M. Nečas, J.-P. Bouillon,
C. Portella, M. Potáček*



Intra–Intermolecular Crisscross Cycloaddition of Nonsymmetrical Allenylazines with Fluorinated Enones as an Initial Step in the Synthesis of 4*H*-Pyrrolo[1,2-*b*]pyrazoles

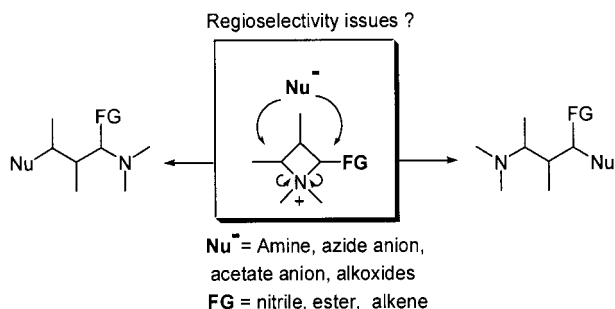
Keywords: Crisscross / Cycloaddition / 1,3-Dipoles / Nonsymmetrical azines / Allenes



3479 F. Couty,* O. David, F. Durrat, G. Evano,
S. Lakhdar, J. Marrot, M. Vargas-Sanchez

Nucleophilic Ring-Opening of Azetidinium Ions: Insights into Regioselectivity

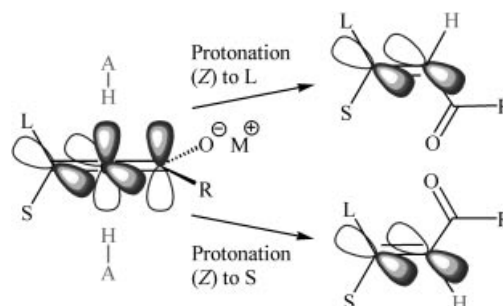
Keywords: Azetidines / Azetidinium ions / Nucleophilic ring-opening / Density functional calculations / Regioselectivity



3491 H. E. Zimmerman,* A. Pushechnikov

The Stereochemistry of Allenic Enol Tautomerism – Independent Generation and Reactivity of the Enolates

Keywords: Stereochemistry / Kinetic protonation / Allenolates

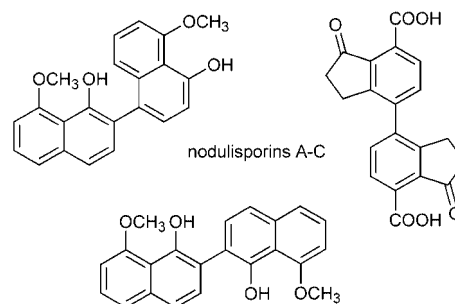


3498

J. Dai, K. Krohn,* U. Flörke, S. Draeger,
B. Schulz, A. Kiss-Szikszai, S. Antus,
T. Kurtán, T. van Ree

Metabolites from the Endophytic Fungus
Nodulisporium sp. from *Juniperus cedre*

Keywords: Fungal metabolites / Nodulisporins A-C /
Nodulisporium sp. / Structural elucidation /
CD spectral analysis



CORRECTION

3507

A. Alexakis,* A. Tomassini, O. Andrey,
R. Aav, G. Bernardinelli

Diastereoselective Alkylation of (Arene)tri-
carbonylchromium and Ferrocene Complexes
Using a Chiral, C_2 -Symmetrical 1,2-Diamine as
Auxiliary

Keywords: Aminals / Chromium / Diamines / Homo-
geneous catalysis / Planar chirality



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