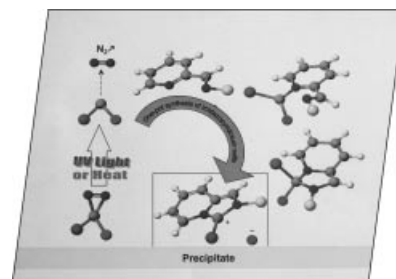


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COVER PICTURE

The cover picture shows the mechanistic scheme of the synthesis of imidazo[1,5-*a*]pyridinium salts from phenylchlorodiazirine and 2-pyridyl Schiff bases. The carbene produced by thermolysis of the diazirine reacts with the pyridyl Schiff base to give two different ylide species, which are detected by laser flash photolysis. However, a single product is formed in a nearly quantitative yield and is easily separated from the reactants since it precipitates in nonpolar solvents. Colour code: blue = N, red = Cl, yellow = alkyl or aryl substituent, green = phenyl group. Details are discussed in the article by R. Bonneau and P. Guionneau on p. 5459 ff.



MICROREVIEW

Contents

5423 M. G. Rosenberg, U. H. Brinker*

Constrained Carbenes

[carbene@host] $\longrightarrow$ exciting
 new chemistry

Keywords: Carbenes / Reactive intermediates / Host–guest systems / Supramolecular chemistry

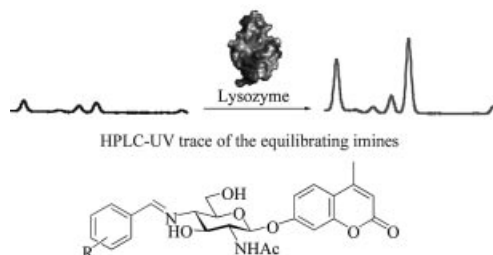
SHORT COMMUNICATIONS

5441 S. Zameo, B. Vauzeilles,* J.-M. Beau*



Direct Composition Analysis of a Dynamic Library of Imines in an Aqueous Medium

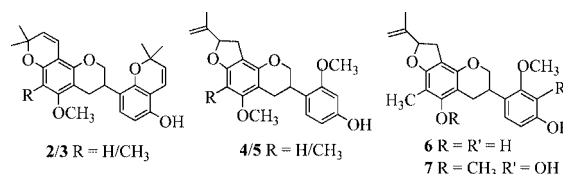
Keywords: Combinatorial chemistry / Carbohydrates / Imines / Molecular recognition / Self-assembly



5445 C. S. de Andrade Lima, G. Zappia,
G. D. Monache, B. Botta*

Uncommon 5-Methoxyisoflavans from *Desmodium canum*

Keywords: Natural products / Oxygen heterocycles / Isoflavans / *Desmodium canum*

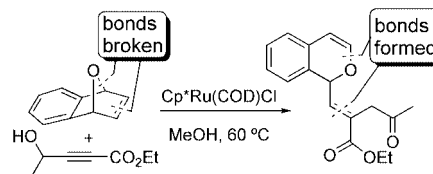


5449 K. Villeneuve, W. Tam*



Ruthenium(II)-Catalyzed Cyclization of Oxa-benzonorbornenes with Propargylic Alcohols: Formation of Isochromenes

Keywords: Ruthenium / Catalysis / Cyclization / Isochromene / Oxabenzonorbornenes

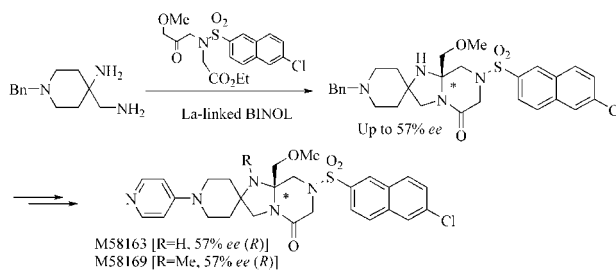


**5454 F. Saitoh,* H. Nishida, T. Mukaihira,
K. Aikawa, K. Mikami***



Asymmetric Synthesis of Antithrombotic Agents M58163 and M58169: Dynamic Kinetic Resolution in Amide Formation Catalyzed by La-Linked BINOL Complex

Keywords: Antithrombotic agent / Kinetic resolution / Enantioselectivity / Acetals

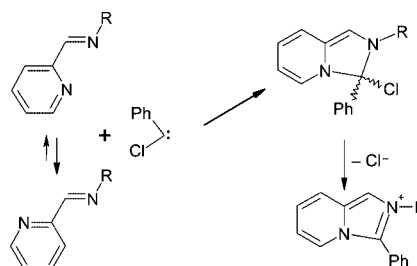


FULL PAPERS

5459 R. Bonneau,* P. Guionneau

Imidazo[1,5-*a*]pyridinium Salts from Phenylchlorocarbene and Schiff Bases

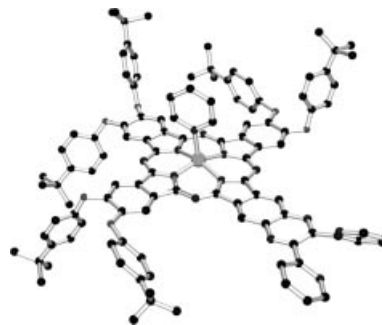
Keywords: Carbenes / Ylides / Cyclization / Intermediates / Time-resolved spectroscopy



5467 M. Haas, S.-X. Liu,* A. Neels, S. Decurtins

A Synthetic Approach to Asymmetric Phthalocyanines with Peripheral Metal-Binding Sites

Keywords: N ligands / Asymmetric phthalocyanines / Solid-state structures / Synthesis / UV/Vis spectroscopy

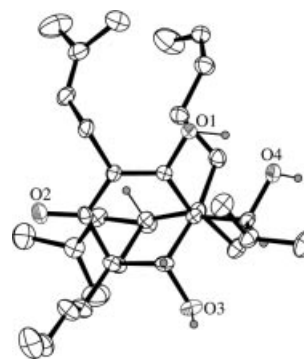


5479 L. Verotta,* O. Sterner,* G. Appendino, E. Bombardelli, T. Pilati



The Reaction of Hyperforin with Hydride Reducing Agents

Keywords: Natural products / Acylphloroglucinols / Reduction

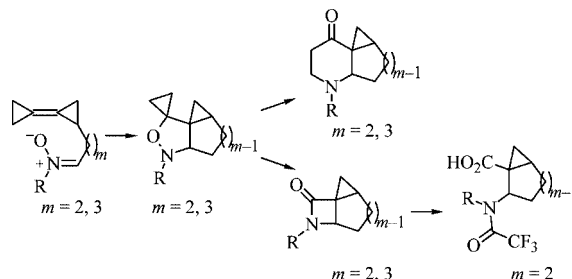


5485 M. Marradi, A. Brandi,* J. Magull, H. Schill, A. de Meijere*



New Highly Strained Multifunctional Heterocycles by Intramolecular Cycloadditions of Nitrones to Bicyclopropylidene Moieties

Keywords: Cycloaddition / Tetrahydropyridones / β -Lactams / β -Amino acids / Small ring systems / Spiro compounds

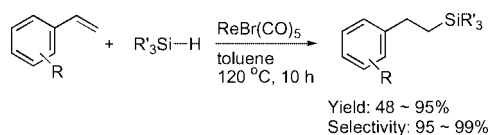


5495 W.-G. Zhao, R. Hua*



Highly Regioselective Rhenium-Catalyzed Hydrosilylation of Styrenes

Keywords: Catalysis / Hydrosilylation / Regioselectivity / Rhenium / Styrene

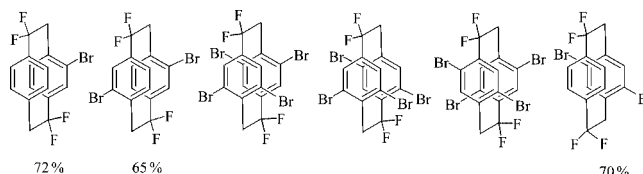


Yield: 48 ~ 95%
Selectivity: 95 ~ 99%

5499 L. Bondarenko, J. W. Kampf, J. Lahann*

The Synthesis of Brominated Tetrafluoro[2.2]-paracyclophanes

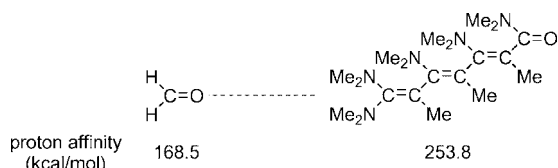
Keywords: Bridge-fluorinated [2.2]paracyclophanes / Electrophilic substitution / Structure elucidation



5505 I. Despotović, Z. B. Maksić,* R. Vianello

Engineering Neutral Organic Bases and Superbases by Computational DFT Methods – Carbonyl Polyenes

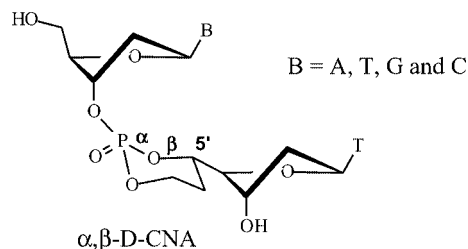
Keywords: Proton affinity / Basicity / Bond energy / Relaxation effect / Homodesmotic reactions



5515 C. Dupouy, I. L. Clézio, P. Lavedan, H. Gornitzka, J.-M. Escudier,* A. Vigroux*

Diastereoselective Synthesis of Conformationally Restricted Dinucleotides Featuring Canonical and Noncanonical α/β Torsion Angle Combinations (α,β -D-CNA)

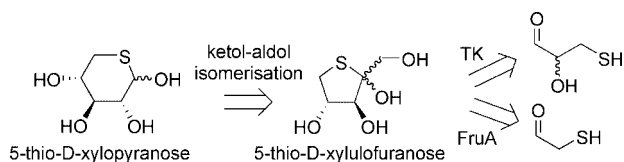
Keywords: Nucleic acids / Conformation analysis / Dinucleotide / DNA structure



5526 F. Charmantray, P. Dellis, V. Hélaine, S. Samreth, L. Hecquet*

Chemoenzymatic Synthesis of 5-Thio-D-xylopyranose

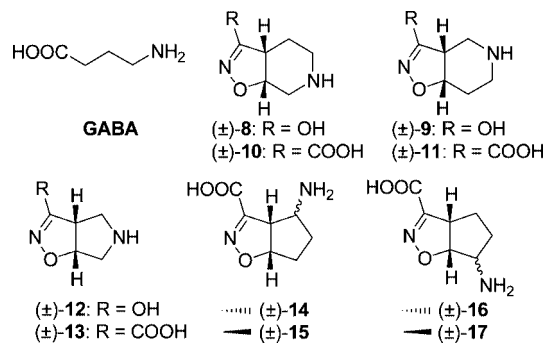
Keywords: Biocatalysis / C–C bond formation / Carbohydrates / Isomerisation



5533 P. Conti,* M. De Amici, A. Pinto, L. Tamborini, G. Grazioso, B. Frølund, B. Nielsen, C. Thomsen, B. Ebert, C. De Micheli

Synthesis of 3-Hydroxy- and 3-Carboxy- Δ^2 -isoxazoline Amino Acids and Evaluation of Their Interaction with GABA Receptors and Transporters

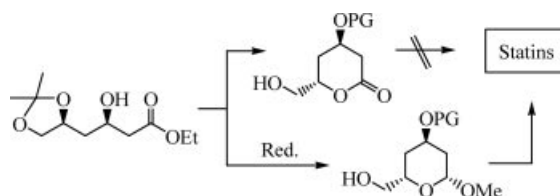
Keywords: Neurotransmitters / Amino acids / Δ^2 -Isoxazoline amino acids / GABA receptors and transporters / Binding affinity



5543 V. I. Tararov,* N. Andrushko, V. Andrushko, G. König, A. Spannenberg, A. Börner*

Synthesis of the Chiral Side Chain of Statins – Lactone versus Lactol Pathway

Keywords: Drug design / Lactones / Alcohols / Synthetic methods

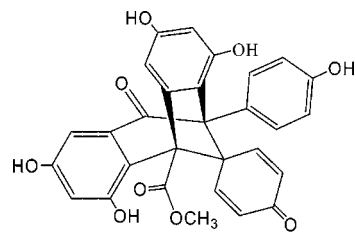


5551 H. M. Ge, C. Xu, X. T. Wang, B. Huang, R. X. Tan*



Hopeanol: A Potent Cytotoxin with A Novel Skeleton from *Hopea exalata*

Keywords: Natural products / Hopeanol / Structure elucidation / *Hopea exalata* / Cytotoxic activity

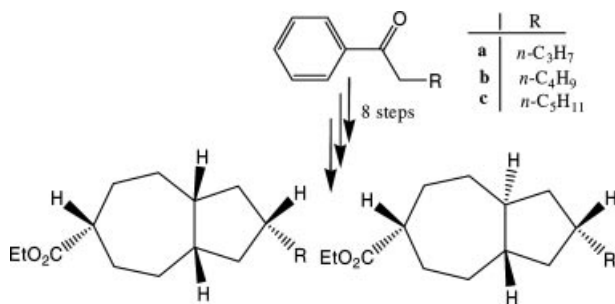


hopeanol (1)

5555 Z. Hussain, H. Hopf,* L. Pohl, T. Oeser, A. K. Fischer, P. G. Jones

Synthesis and Stereochemical Aspects of 2,6-Disubstituted Perhydroazulenes – Core Units for a New Class of Liquid Crystalline Materials

Keywords: Perhydroazulene / Ring enlargement / Mannich reaction / Hydrogenation

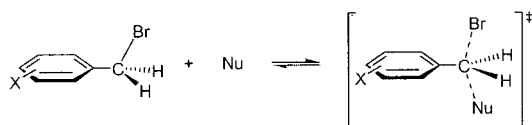


5570 F. Ruff,* Ö. Farkas, Á. Kucsman



Computational Study of Reactivity and Transition Structures in Nucleophilic Substitutions on Benzyl Bromides

Keywords: Nucleophilic substitutions / Benzyl bromides / Substituent effect / Solvent effect / Density functional calculations / Activation parameters

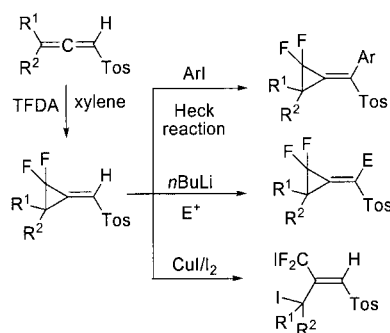


X = 4-CH₃O, H, 4-NO₂
Nu = Br⁻, YC₅H₄N; Y = 4-N(CH₃)₂, H, 4-NO₂

5581 Z.-L. Cheng, J.-C. Xiao, C. Liu, Q.-Y. Chen*

Chemistry of Difluorocarbene: Synthesis and Conversion of Difluoro(methylene)cyclopropanes

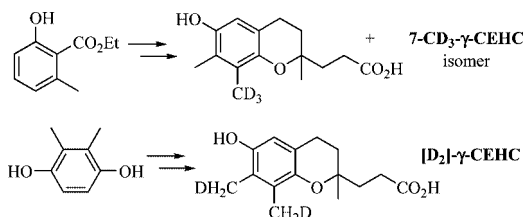
Keywords: Difluorocarbene / Cyclopropanes / Allenes



5588 F. Mazzini, F. Galli, P. Salvadori*

Vitamin E Metabolites: Synthesis of [D₂]- and [D₃]-γ-CEHC

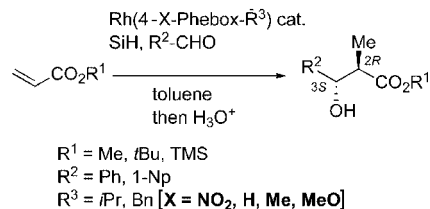
Keywords: Natural products / Vitamins / Deuterium / Chroman ring / CEHC metabolites / Vitamin E



5594 T. Shiomi, J.-i. Ito, Y. Yamamoto,
H. Nishiyama*

4-Substituted-Phenyl(bisoxazoline)-Rhodium
Complexes: Efficiency in the Catalytic Asym-
metric Reductive Aldol Reaction

Keywords: Asymmetric catalysis / Aldol reactions /
Oxazolines / Hydrosilanes / Rhodium



CORRECTIONS

5601 S.-Y. Chang, S.-L. Huang, N. R. Villarante,
C.-C. Liao*

Photochemical Reactions of 1,3,3-Trimethyl-
bicyclo[2.2.2]octa-5,7-dien-2-ones

Keywords: Photochemistry / Reaction mechanisms /
Direct irradiation / Sensitized irradiation /
Bicyclo[2.2.2]octadienones

5602 M. J. Dixon, O. A. Andersen,
D. M. F van Aalten, I. M. Eggleston*

First Synthesis of Argadin: A Nanomolar
Inhibitor of Family-18 Chitinases

Keywords: Asthma / Chitinases / Peptides / Solid-
phase synthesis / Total synthesis

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