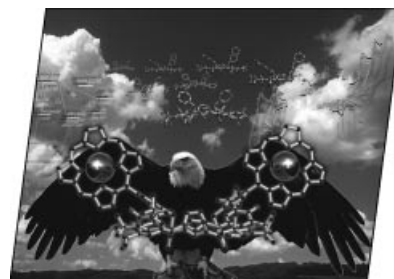


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COVER PICTURE

The cover picture shows an example of an oxoporphyrinogen molecule substituted at macrocyclic nitrogen atoms with zinc–porphyrins (oxoporphyrinogen gets zinc–porphyrin “wings”). The electrochemical and photochemical behaviour of this unprecedented tetrapyrrolic triad has been investigated using physical and computational methods. Evidence for the energy transfer and charge separation between the zinc–porphyrin “wings” and the quinonoid oxoporphyrinogen scaffold is discussed in the article by J. P. Hill, O. Ito, F. D’Souza et al. on p. 595ff.



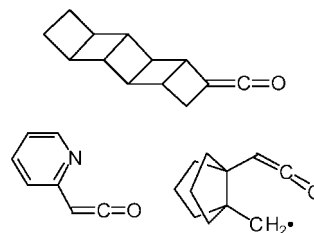
MICROREVIEW

Contents

563 T. T. Tidwell*

Ketene Chemistry after 100 Years: Ready for a
 New Century

Keywords: Asymmetric synthesis / Cycloaddition /
 Ketenes / Radicals

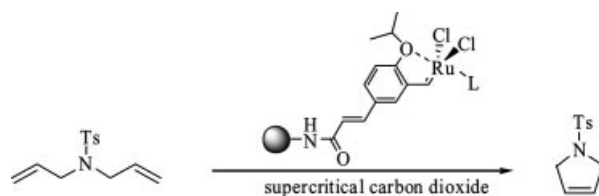


SHORT COMMUNICATIONS

577 F. Michalek, D. Mäde, J. Rühle,
W. Bannwarth*

Ring-Closure Metathesis in Supercritical Carbon Dioxide as Sole Solvent with Use of Covalently Immobilized Ruthenium Catalysts

Keywords: Supported catalysts / Alkenes / Supercritical carbon dioxide / Olefin metathesis / Ruthenium

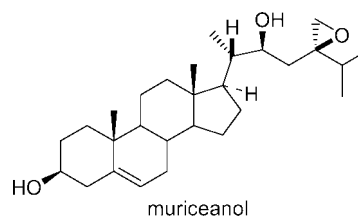


582 M. Lorenzo, M. Cueto, L. D'Croz,
J. L. Maté, A. San-Martín, J. Darias*



Muriceanol, a 24(28)-Epoxide Sterol Link in the Carbon Flux Toward Side-Chain Dealkylation of Sterols

Keywords: Octocoral / Non-zooxanthellate gorgonia / Muricea spp / 24(28)-Epoxysterol / Side-chain dealkylation / Pregnanes / Biogenesis

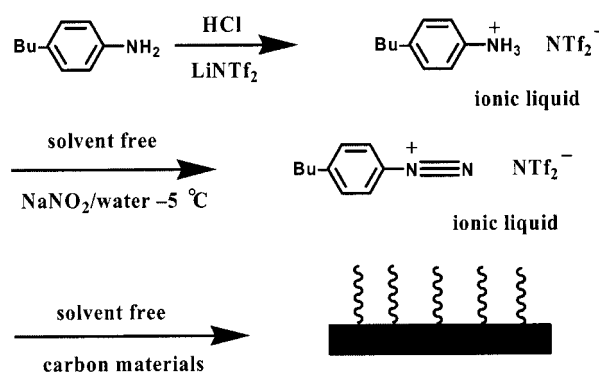


586 C. Liang, J.-F. Huang, Z. Li, H. Luo,
S. Dai*



A Diazonium Salt-Based Ionic Liquid for Solvent-Free Modification of Carbon

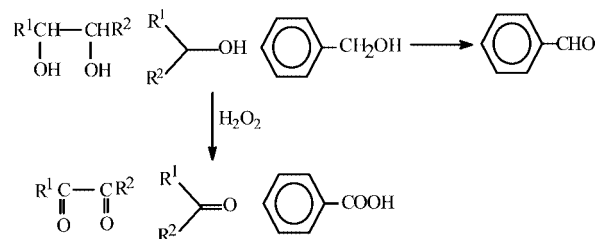
Keywords: Diazo compounds / Ionic liquids / Surface chemistry / Synthesis design / Mesoporous materials



590 J. K. Joseph, S. L. Jain, B. Sain*

Oxidation of Alcohols and *vic*-Diols with H₂O₂ by Using Catalytic Amounts of *N*-Methylpyrrolidin-2-one Hydrotribromide

Keywords: Alcohols/ Aldehydes / Ketones / Oxidation / Synthetic methods



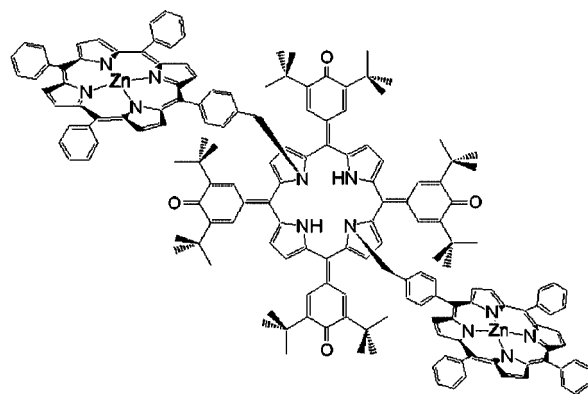
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J. P. Hill*, A. S. D. Sandanayaka,
A. L. McCarty, P. A. Karr, M. E. Zandler,
R. Charvet, K. Ariga, Y. Araki, O. Ito,*
F. D'Souza*



A Novel Bis(zinc–porphyrin)–Oxoporphyrinogen Donor–Acceptor Triad: Synthesis, Electrochemical, Computational and Photochemical Studies

Keywords: Porphyrin / Oxoporphyrinogen / Photochemistry / Electrochemistry



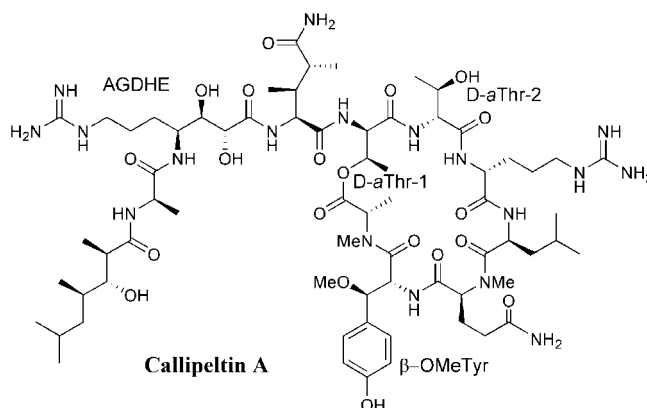
604

C. Bassarello, A. Zampella, M. C. Monti,
L. Gomez-Paloma, M. V. D'Auria,
R. Riccio, G. Bifulco*



Quantum Mechanical Calculation of Coupling Constants in the Configurational Analysis of Flexible Systems: Determination of the Configuration of Callipeltin A

Keywords: GIAO / ^{13}C NMR / ^1H NMR / DFT calculations / Callipeltin A / J -couplings



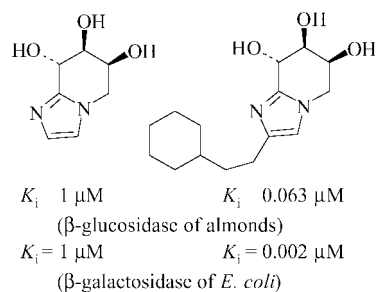
610

E. Dubost, D. Le Nouën, J. Streith,
C. Tarnus, T. Tschamber*



Synthesis of Substituted Imidazolo[1,2-*a*]piperidinoses and Their Evaluation as Glycosidase Inhibitors

Keywords: Azasugars / Carbohydrates / Inhibitors / Nitrogen heterocycles

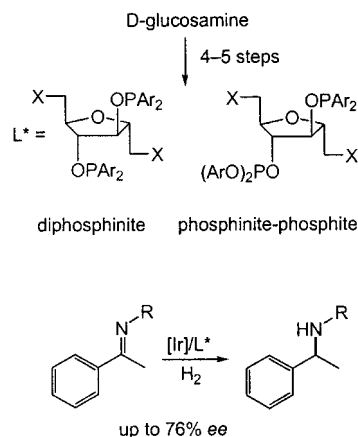


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E. Guiu, M. Aghmiz, Y. Díaz, C. Claver,*
B. Meseguer, C. Militzer, S. Castellón*

New C_2 - and C_1 -Symmetric Phosphorus Ligands Based on Carbohydrate Scaffolds and Their Use in the Iridium-Catalysed Hydrogenation of Ketimines

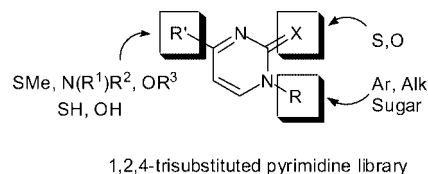
Keywords: Asymmetric catalysis / Hydrogenation / Imines / Iridium / P ligands / Carbohydrates



634 A. Robin, K. Julienne, J.-C. Meslin,
D. Deniaud*

Straightforward Pyrimidine Ring Construction:
A Versatile Tool for the Synthesis of Nucleobase
and Nucleoside Analogues

Keywords: Azabutadiene / Cycloaddition / Hetero-
cycles / Iso(thio)cyanates / Nucleophilic
substitution

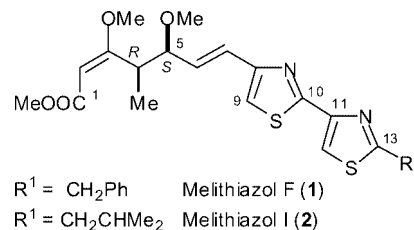


644 H. Takayama, K. Kato, H. Akita*



Synthesis of (4*R*,5*S*)-Melithiazols F and I

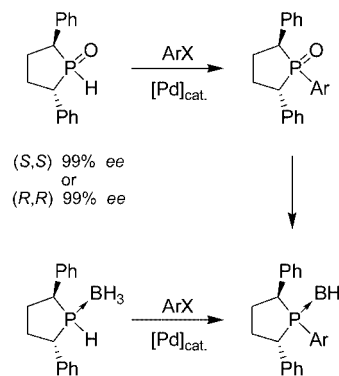
Keywords: Asymmetric synthesis / Antibiotic /
Melithiazol / Antifungal activity / Natural
products



650 M. Toffano, C. Dobrota, J.-C. Fiaud*

Synthesis of Enantiopure 1-*r*-Aryl-2-*c*,5-*t*-di-
phenylphospholane Oxides and Boranes by Pd-
Catalyzed C–P Bond Formation

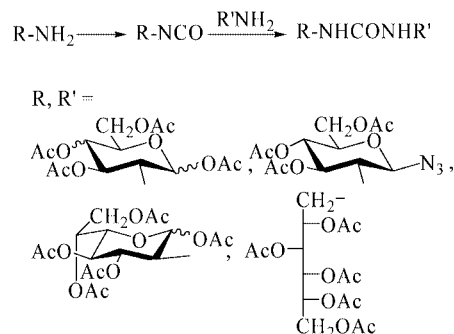
Keywords: Boranes / Cross-coupling / C–P bond for-
mation / Homogeneous catalysis / Ligand
design



657 M. Ávalos, R. Babiano, P. Cintas,
M. B. Hursthouse, J. L. Jiménez,
M. E. Light, J. C. Palacios,* E. M. S. Pérez

Synthesis of Sugar Isocyanates and Their Appli-
cation to the Formation of Ureido-Linked
Disaccharides

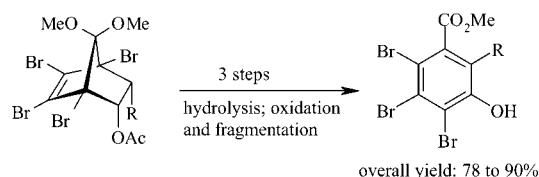
Keywords: Isocyanates / Ureas / Ureidosugars



672 F. A. Khan,* S. Choudhury

An Efficient Route to Pentasubstituted Phenols

Keywords: Pentasubstituted phenols / Grob-type
fragmentation / Cycloaddition / Rearrange-
ment / Diels–Alder reaction



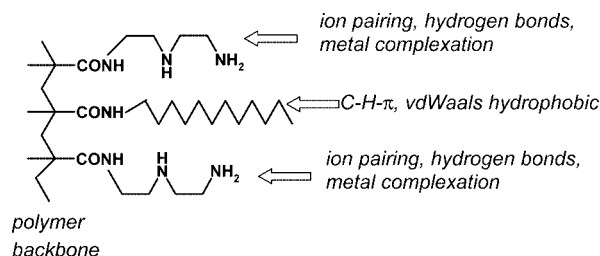
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H.-J. Schneider,* L. Tianjun, N. Lomadze



Dimension Changes in a Chemomechanical Polymer Containing Ethylenediamine and Alkyl Functions as Selective Recognition Units

Keywords: Supramolecular chemistry / Chemomechanical polymers / Hydrogels / Ternary complexes / Nucleotides / Peptides / Amino acids / Actuators / Molecular machines



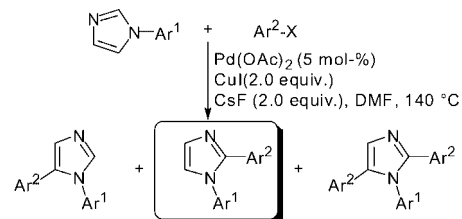
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F. Bellina,* S. Cauteruccio, L. Mannina, R. Rossi,* S. Viel



Regiocontrolled Synthesis of 1,2-Diaryl-1*H*-imidazoles by Palladium- and Copper-Mediated Direct Coupling of 1-Aryl-1*H*-imidazoles with Aryl Halides under Ligandless Conditions

Keywords: C–C coupling / Synthetic methods / Regio-selectivity / Palladium / Copper

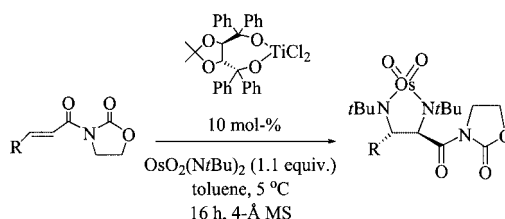


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I. Almodovar, C. H. Hövelmann, J. Streuff, M. Nieger, K. Muñiz*

Enantioselective Diamination of Alkenes by Use of a Bisimidoosmium Reagent with the Aid of Chiral Catalysts

Keywords: Alkenes / Catalysis / Diamination / Osmium / Heterocycles

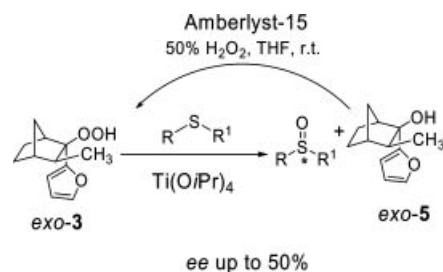


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A. Lattanzi,* S. Piccirillo, A. Scettri

Flexible Synthetic Approach to a (*S*)-Norcamphor-Based Hydroperoxide: An Efficient Oxidant for Asymmetric Sulfoxidations

Keywords: Optically pure alkyl hydroperoxides / Sulfoxidation / Asymmetric synthesis / Kinetic resolution / (*S*)-Norcamphor

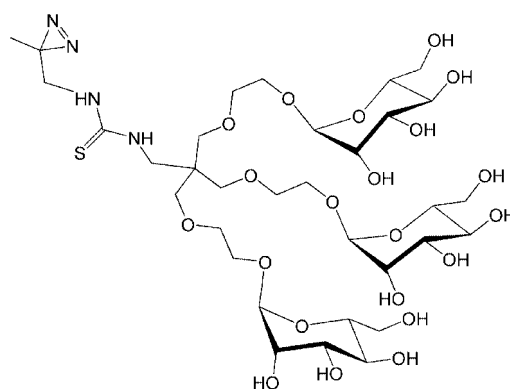


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M. Walter, M. Wiegand, T. K. Lindhorst*

Synthesis of Cluster Mannosides Carrying a Photolabile Diazirine Group

Keywords: Carbohydrates / Glycoclusters / Photoaffinity labeling / Diazirines / Thiourea bridging

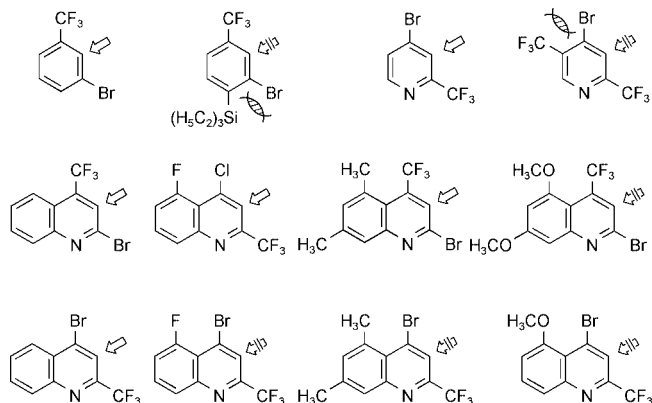


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M. Schlosser,* F. Cottet, C. Heiss,
O. Lefebvre, M. Marull, E. Masson,
R. Scopelliti

Relay Propagation of Crowding: The Trifluoromethyl Group as Both an Emitter and Transmitter of Steric Pressure

Keywords: Buttressing / Halogen substituents / Metalation / Pyridines / Quinolines / Steric effects / Trifluoromethyl groups

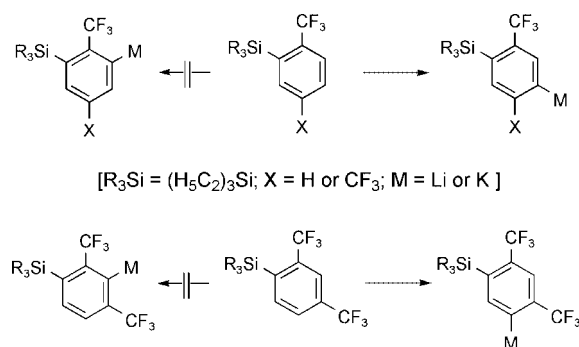


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M. Schlosser,* C. Heiss, F. Leroux

Trifluoromethyl-Substituted Phenylsilanes: The Regiochemical Course of Their Metalation Dictated by Buttressing Effects

Keywords: Buttressing / Metalation / Regioselectivity / Silanes / Steric hindrance / Trifluoromethyl groups

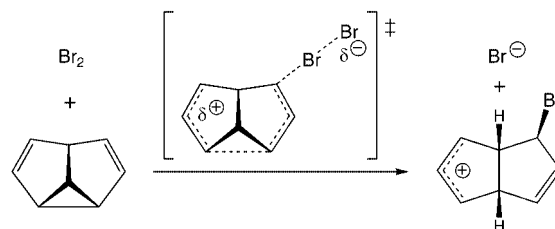


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S. C. Wang, D. J. Tantillo*

The Mechanism of Semibullvalene Bromination

Keywords: Bromination / Semibullvalene / Carbocations / Density functional calculations / Cyclopropylcarbinyl

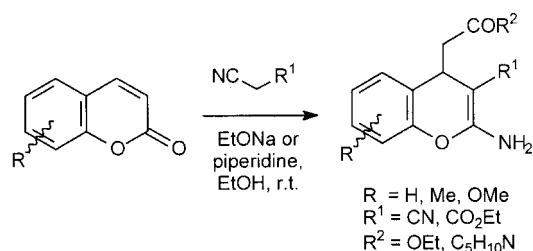


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M. Curini,* O. Rosati,* M. C. Marcotullio,
F. Montanari, V. Campagna, V. Pace,
G. Cravotto

Preparation of 2-Amino-4*H*-chromene Derivatives from Coumarins in Basic Media

Keywords: Carbanions / Chromenes / Coumarins / Michael additions / Rearrangements

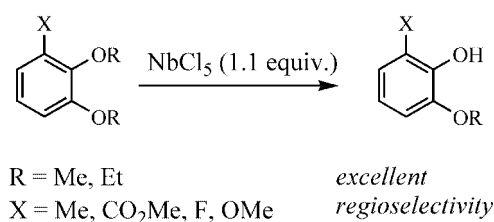


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Y. Sudo, S. Arai,* A. Nishida*

Facile and Regioselective Dealkylation of Alkyl Aryl Ethers Using Niobium(v) Pentachloride

Keywords: Dealkylation of ethers / Niobium



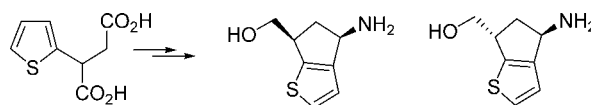
759

P. Abeijón, J. M. Blanco,* F. Fernández,
M. D. García, C. López



Synthesis of Two Precursors of Heterocarbocyclic Nucleoside Analogues

Keywords: Heterocarbocyclic nucleoside / Heterobicyclic amino alcohol / AlH_3 reduction

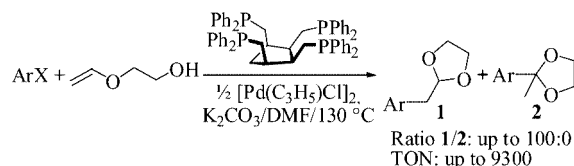


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I. Kondolff, H. Doucet,* M. Santelli*

Direct Synthesis of Protected Arylacetaldehydes by Tetrakis(phosphane)palladium-Catalyzed Arylation of Ethyleneglycol Vinyl Ether

Keywords: Aryl halides / Arylacetaldehydes / Homogeneous catalysis / Palladium / Phosphane ligands

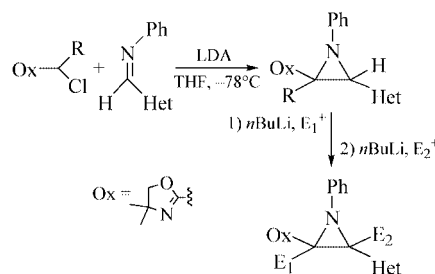


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L. Troisi,* C. Granito, C. Carlucci, F. Bona,
S. Florio

Synthesis and Functionalisation of 2,3-Diheterocycle-Substituted Aziridines

Keywords: Schiff bases / Heterocycles / Darzens reaction / Aziridines

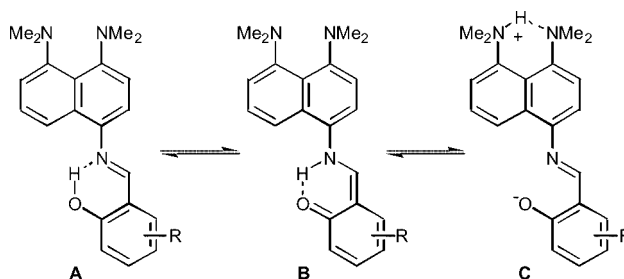


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V. A. Ozeryanskii,* A. F. Pozharskii,
W. Schilf, B. Kamiński,
W. Sawka-Dobrowolska, L. Sobczyk,
E. Grech

Novel Polyfunctional Tautomeric Systems Containing Salicylideneamino and Proton Sponge Moieties

Keywords: Hydrogen transfer / Intramolecular hydrogen bonding / Proton sponge / Schiff bases / Tautomerism

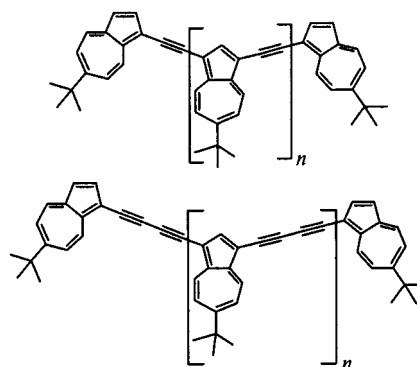


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K. H. H. Fabian, A. H. M. Elwahy,
K. Hafner*

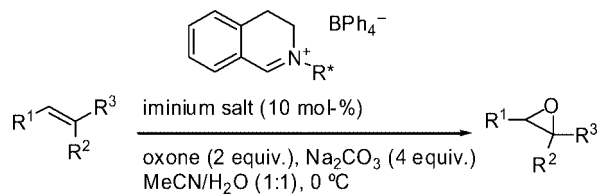
Ethynylazulenes – Building Blocks for Novel Oligoazulenes with Ethynyl and Butadiynyl Bridges

Keywords: Azulenes / Cross-coupling / Oligoazulenes / Oxidative coupling / Palladium



New Chiral Iminium Salt Catalysts for Asymmetric Epoxidation

Keywords: Iminium salt / Catalyst / Catalysis / Asymmetric epoxidation



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