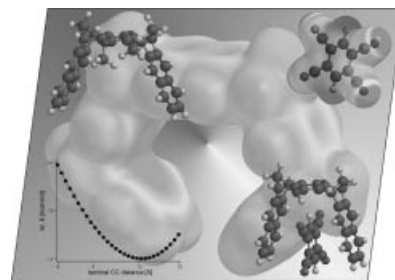


Earliest available Table of Contents:
 Automatically, free of charge by e-mail through
www.interscience.wiley.com/alerts

COVER PICTURE

The cover picture shows the structures of the empty dimethoxy-substituted clip and the host–guest complex between the hydroquinone clip and 1,2,4,5-tetracyanobenzene (TCNB) calculated by force field. The calculations are in good agreement with single-crystal structure analyses. The compression of the naphthalene sidewalls of the clip by 2.2 Å during the complexation, which is necessary to obtain binding arene–arene interactions in the complex, is calculated to be a low-energy process. The complementary nature of the electrostatic potential surface (EPS) of the tetramethylene-bridged naphthalene tweezer and TCNB (calculated by AM1) explains the high selectivity of this class of receptors toward electron-deficient substrates. Details are discussed in the article by F.-G. Klärner et al. on p. 1405 ff. Cover art by Björn Kahlert.



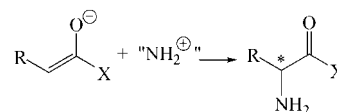
MICROREVIEWS

Contents

1377 C. Greck*, B. Drouillat, C. Thomassigny

Asymmetric Electrophilic α -Amination of Carbonyl Groups

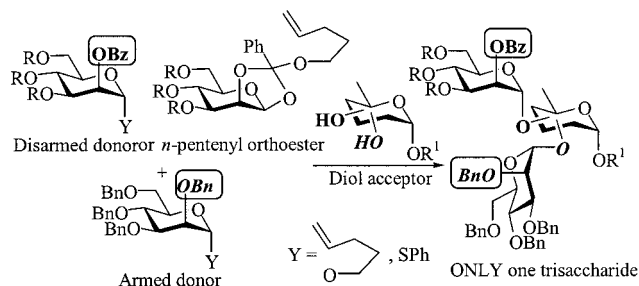
Keywords: Amino acids / Asymmetric synthesis / Azodicarboxylate / Chiral catalysts / Electrophilic amination / Stereoselectivity



1387 B. Fraser-Reid,* J. C. López,*
A. M. Gómez, C. Uriel

Reciprocal Donor Acceptor Selectivity (RDAS) and Paulsen's Concept of "Match" in Saccharide Coupling

Keywords: Glycosides / Glycosylation / Regioselectivity



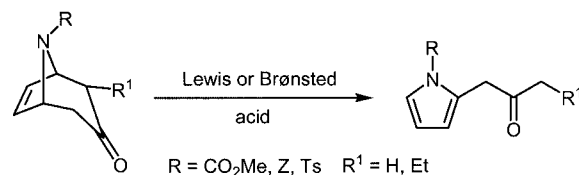
SHORT COMMUNICATIONS

1397 N. Cramer, J. Juretschke, S. Laschat,*
A. Baro, W. Frey



Acid-Promoted Retro-Mannich Reaction of *N*-Protected Tropenones to 2-Substituted Pyrroles

Keywords: Fragmentation / Ketones / Regioselectivity / Mannich reaction / Tropenones

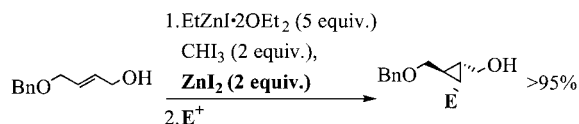


1401 J.-F. Fournier, A. B. Charette



Improved Protocol for the Diastereoselective Cyclopropanation of Alkenes using Geminal Dizinc Carbenoids: A Study on the Effect of Zinc Iodides

Keywords: Carbenoids / Carbocycles / Zinc / Alkenes / Cycloaddition



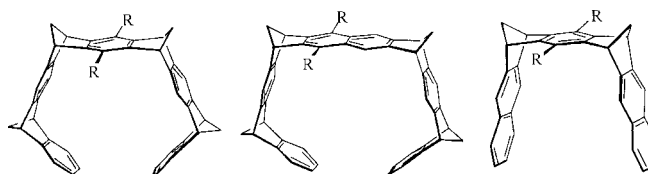
FULL PAPERS

1405 F.-G. Klärner,* J. Polkowska, J. Panitzky,
U. P. Seelbach, U. Burkert, M. Kamieth,
M. Baumann, A. E. Wigger, R. Boese,
D. Bläser



Effect of Substituents on the Complexation of Aromatic and Quinoid Substrates with Molecular Tweezers and Clips

Keywords: Force-field calculations / Host-guest systems / Molecular recognition / Quantum chemical EPS calculations / Self-assembly / Substituent effects



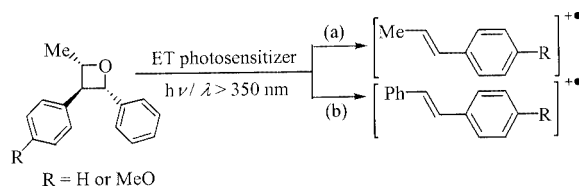
R = OMe, OAc, OCH₂CO₂R'

1424 M. A. Izquierdo, M. A. Miranda*



Electron-Transfer Cycloreversion of 2,3-Diaryl-oxetanes: Influence of the Substitution and the Photosensitizer on the Regioselectivity

Keywords: Small ring systems / Cleavage reactions / Time-resolved spectroscopy / Photochemistry / Radical cations

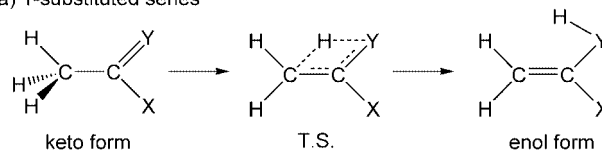




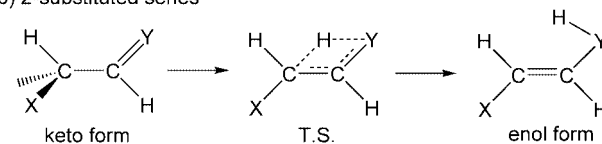
Computational Study on the Effects of Substituents and Functional Groups in the Isomerization of 1- and 2-Substituted Propenes, Acetaldimines, and Aldehydes

Keywords: Ab initio calculations / Density functional calculations / Enols / Isomerization / Ketones

(a) 1-substituted series



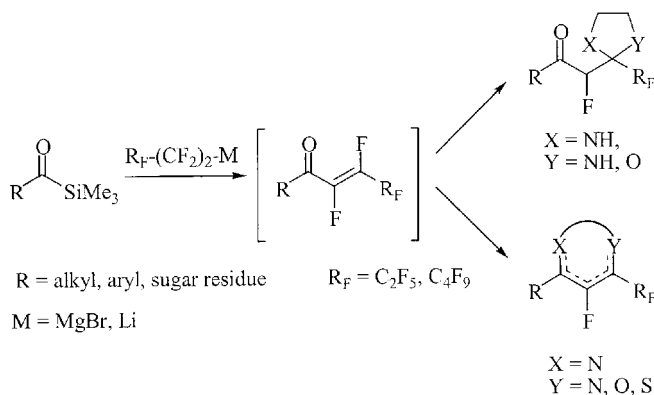
(b) 2-substituted series



Y = CH₂, NH, O; X = H, CH₃, NH₂, OH, F

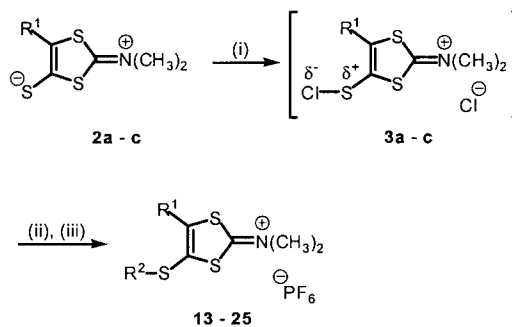
Synthesis of Polyfluorinated Nitrogen-Containing Heterocycles from Hemifluorinated Enones or Organofluorosilicon Building Blocks as Synthetic Equivalents

Keywords: Acylsilanes / Michael addition / Nitrogen heterocycles / Organofluorine / Silyl enol ethers



Umpolung of the 5-Alkyl-2-dimethylamino-1,3-dithiolium-4-thiolate Mesoion and Its Application in the Synthesis of Some New Tetrathiafulvalenes

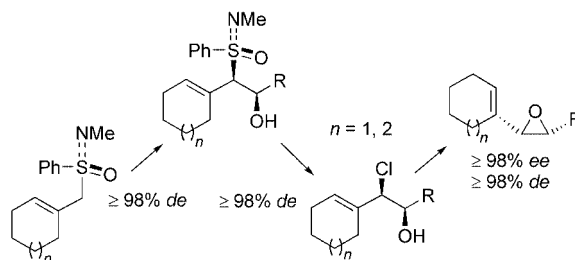
Keywords: Umpolung / Mesoion / 1,3-Dithiolium ion / Tetrathiafulvalene / Cyclic voltammetry



R² = Electron-rich aromatics

Asymmetric Synthesis of Cycloalkenyl and Alkenyloxiranes From Allylic Sulfoximines and Aldehydes and Application to Solid-Phase Synthesis

Keywords: Asymmetric synthesis / Chirality / Solid-phase synthesis / Substitution / Sulfoximine

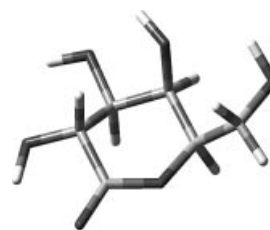


1474 M. Bierenstiel, M. Schlaf*



δ -Galactonolactone: Synthesis, Isolation, and Comparative Structure and Stability Analysis of an Elusive Sugar Derivative

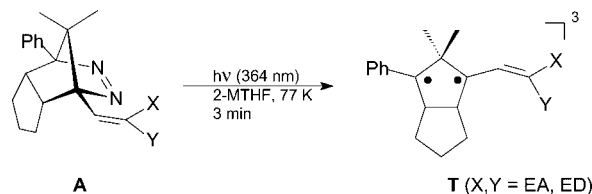
Keywords: Carbohydrates / Homogeneous catalysis / Isomerization / Lactones



1482 W. Adam,* C. M. O. Schulte

Captodative Stabilization in Geminally Substituted Allylic Radicals Assessed by Means of the EPR-Spectral D Parameter of 1,3-Cyclopentenediyl Triplet Diradicals

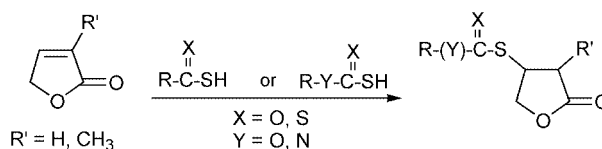
Keywords: Captodativity / D Parameter / EPR spectroscopy / Substituent effects / Triplet diradicals



1492 F. Busqué, P. de March,* M. Figueredo, J. Font, L. González

A Study of the Conjugate Addition of Thionucleophiles to 2(5*H*)-Furanones

Keywords: Lactones / Michael addition / Sulfur / Nucleophiles / Furanones

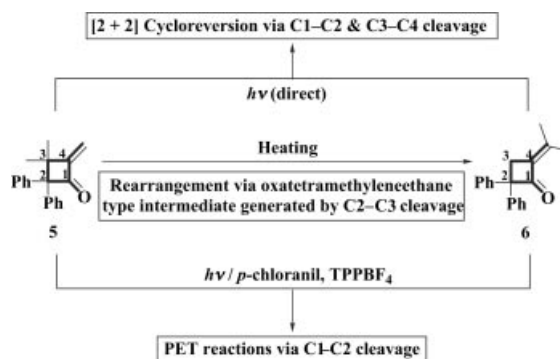


1500 H. Ikeda,* F. Tanaka, T. Miyashi, K. Akiyama, S. Tero-Kubota



Photoinduced Electron-Transfer, Pyrolyses, and Direct Irradiation Reactions of 2-Methylenecyclobutanones: Regioselective Bond Cleavage Depends on the Substituents and the Method of Activation

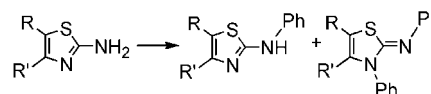
Keywords: Bond cleavage / Electron transfer / Methylene-cyclobutanone / Photochemistry / Regioselectivity



1509 A. Miloudi, D. El-Abed, G. Boyer,* J. P. Finet, J. P. Galy, D. Siri

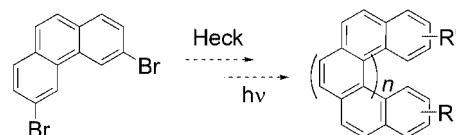
Reactivity of 2-Aminothiazole and 2- or 6-Aminobenzothiazole Derivatives Towards the Triphenylbismuth Diacetate/Catalytic Copper Diacetate Phenylation System

Keywords: Thiazole / Aromatic substitution / Heterocycles / Semi-empirical calculations / X-ray diffraction



1517 R. El Abed, B. Ben Hassine,* J.-P. Genêt,*
M. Gorsane, A. Marinetti*

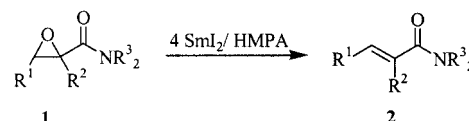
An Alternative Procedure for the Synthesis of [5]- and [7]Carbohelicenes



Keywords: Helicenes / Heck reaction / Palladium / Photocyclisation / Synthetic methods

1523 J. M. Concellón,* E. Bardales

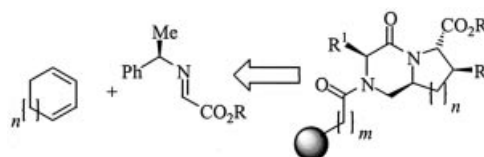
Synthesis of Aliphatic (*E*)- α,β -Unsaturated Amides with High Diastereoselectivity from α,β -Epoxyamides Promoted by SmI_2/HMPA



Keywords: Amides / α,β -Epoxyamides / Samarium / Synthesis design

1527 W. Maison,* D. C. Grohs,
A. H. G. P. Prenzel

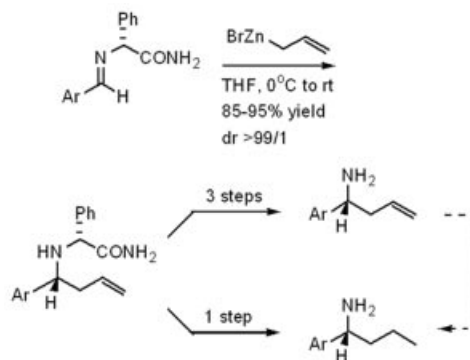
Efficient Synthesis of Structurally Diverse Diazabicycloalkanes: Scaffolds for Modular Dipeptide Mimetics with Tunable Backbone Conformations



Keywords: Peptidomimetics / Cleavage reactions / Cancer targeting / Combinatorial chemistry

1544 J. Dalmolen, M. van der Sluis,
J. W. Nieuwenhuijzen, A. Meetsma,
B. de Lange, B. Kaptein, R. M. Kellogg,*
Q. B. Broxterman

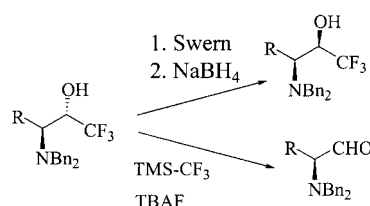
Synthesis of Enantiopure 1-Aryl-1-butyamines and 1-Aryl-3-butenylamines by Diastereoselective Addition of Allylzinc Bromide to Imines Derived from (*R*)-Phenylglycine Amide



Keywords: Allylation / Asymmetric synthesis / Chiral auxiliaries / Diastereoselectivity

1558 J. M. Andrés, R. Pedrosa,* A. Pérez-Encabo

Diastereoselective Synthesis of β -Amino- α -(trifluoromethyl) Alcohols from Homochiral α -Dibenzylamino Aldehydes

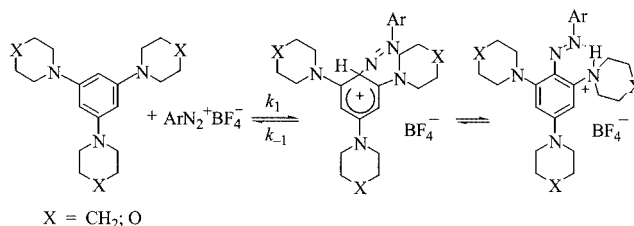


Keywords: Alcohols / Amino aldehydes / Asymmetric Synthesis / Fluorine / Trifluoromethylation

1567 C. Boga, E. Del Vecchio, L. Forlani*

First Evidence for Wheland Intermediates in Azo-Coupling Reactions – Reactions between 1,3,5-Tris(dialkylamino)benzene and Arenediazonium Salts

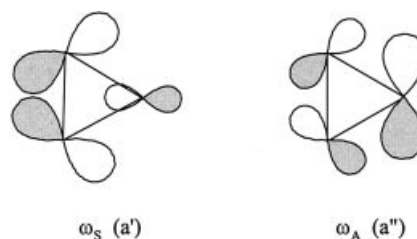
Keywords: Electrophilic substitution / Aromatic substitution / Diazo compounds / NMR spectroscopy



1572 P. Rademacher

Photoelectron Spectra and Electronic Structures of Some Cyanocyclopropanes

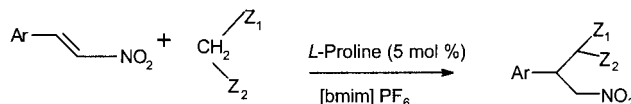
Keywords: Density functional calculations / Electronic structure / Ionization potentials / Molecular structure / Photoelectron spectroscopy / Small ring systems



1577 P. Kotrusz, S. Toma,* H.-G. Schmalz, A. Adler

Michael Additions of Aldehydes and Ketones to β -Nitrostyrenes in an Ionic Liquid

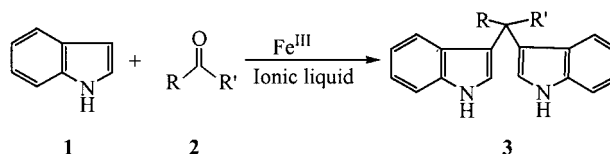
Keywords: Ionic liquids / L-Proline / Michael additions / β -Nitrostyrenes / Organocatalysis



1584 S.-J. Ji,* M.-F. Zhou, D.-G. Gu, Z.-Q. Jiang, T.-P. Loh

Efficient Fe^{III} -Catalyzed Synthesis of Bis(indolyl)methanes in Ionic Liquids

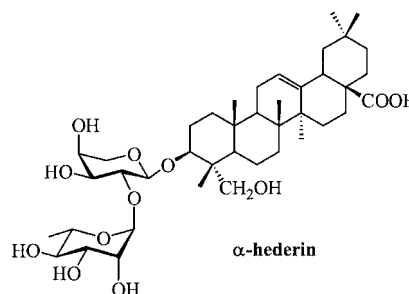
Keywords: Bis(indolyl)methanes / Indoles / Ionic liquids / Iron



1588 K. Plé,* M. Chwalek, L. Voutquenne-Nazabadioko

Synthesis of α -Hederin, δ -Hederin, and Related Triterpenoid Saponins

Keywords: Glycosylation / Natural products / Saponins / Total synthesis



1604 M. del Carmen Fernández-Alonso, F. J. Cañada, D. Solís, X. Cheng, G. Kumaran, S. André, H.-C. Siebert, D. R. Mootoo, H.-J. Gabius, J. Jiménez-Barbero*

Computational and Experimental NMR Definition of Differences in the Conformational Behavior of Free and Lectin-Bound Glycomimetic Aza/Carba-Lactosides

Keywords: Agglutinin / Azasugars / C-disaccharide / Drug design / Glycomimetics / Lectin

