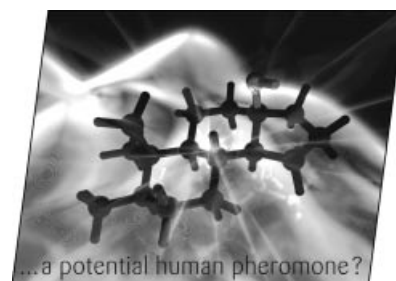




The editorial staff and the publishers thank all readers, authors, referees, and advertisers for their interest and support over the past year and wish them all a Happy New Year.

COVER PICTURE

Ever smelt the heat of a beloved body close to you, ever felt the sensation of being caressed just by catching a whiff of a perfume? This phenomenon could be due to odorants that imitate human pheromones. Just as Ohloff wondered 20 years ago, Kraft and Popaj recently wondered if the steroid-type scent of Timberol® and Limbanol® could be due to a steroid-type folding on the receptor. To finally prove or disprove this speculation, they synthesized the underlying parent steroid structure, which is shown on the cover in front of a female silver torso immersed in light. Details are discussed in their article on p. 4995 ff.



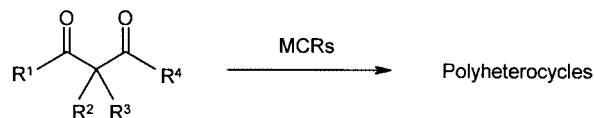
MICROREVIEW

Contents

4957 C. Simon, T. Constantieux,* J. Rodriguez*

Utilisation of 1,3-Dicarbonyl Derivatives in Multicomponent Reactions

Keywords: 1,3-Dicarbonyls / Domino reactions / Heterocycles / Multicomponent transformations



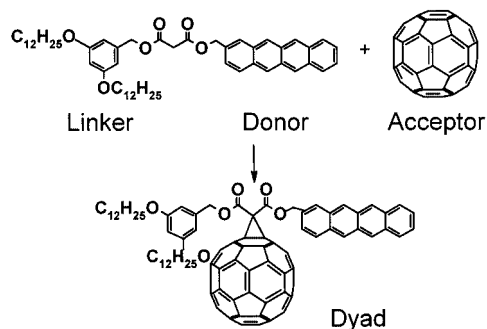
SHORT COMMUNICATIONS

4981 S. Taillemite, D. Fichou*



Synthesis of the First Tetracene-[60]fullerene Dyad

Keywords: Fullerenes / Tetracene / Cycloaddition / Dyad

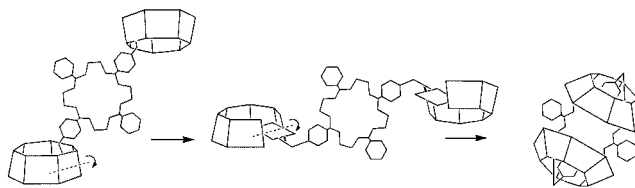


4985 R. Nishiyabu, K. Kano*



Double Self-Inclusion by Rotating Glucopyranose Units in Per-*O*-methylated β -Cyclodextrin Moieties Attached to a Porphyrin in Aqueous Solution

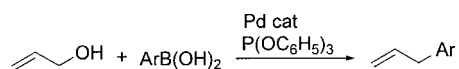
Keywords: Cyclodextrins / Inclusion compounds / NMR spectroscopy / Porphyrins / Supramolecular chemistry



4989 Y. Kayaki, T. Koda, T. Ikariya*

A Highly Effective (Triphenyl phosphite)-palladium Catalyst for a Cross-Coupling Reaction of Allylic Alcohols with Organoboronic Acids

Keywords: Allylation / Boranes / C-C coupling / Green chemistry / Palladium

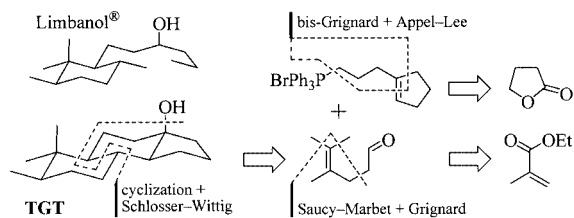


FULL PAPERS

4995 P. Kraft,* K. Popaj

Total Synthesis and Olfactory Evaluation of 5 β ,10-Dimethyl-*des*-A-18-*nor*-androstan-13 β -ol: A Potential Human Pheromone?

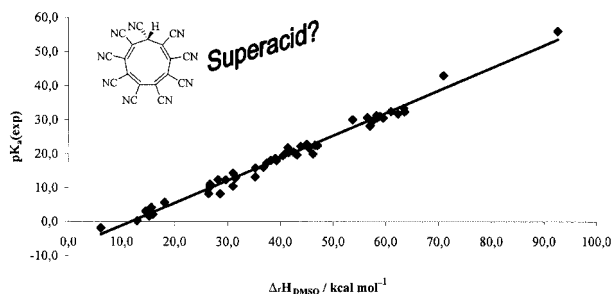
Keywords: Cyclization / Olfactory properties / Pheromones / Steroids / Structure-activity relationships



5003 R. Vianello, Z. B. Maksić*

The Acidity of Brønsted CH Acids in DMSO – The Extreme Acidity of Nonacyanocyclonona-tetraene

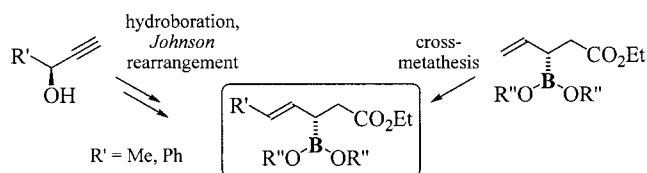
Keywords: Acidity / Density functional calculations / Proton affinity / Solvent effects / Substituent effects



5011 J. Pietruszka,* N. Schöne

New 1,3-Disubstituted Enantiomerically Pure Allylboronic Esters by Johnson Rearrangement of Boron-Substituted Allyl Alcohols

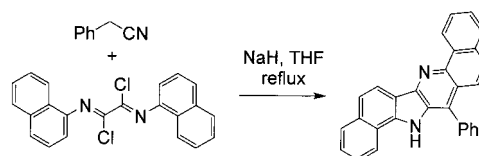
Keywords: Sigmatropic reactions / Rearrangements / Allylation reactions / Boronic esters / Stereoselectivity



5020 J. T. Anders, P. Langer*

Domino Cyclization/Electrocyclization/Elimination Reactions of Arylacetonitriles with *N,N'*-Bis(1-naphthyl)oxaldiimidoyl Dichlorides: Efficient Synthesis of Fluorescent 15*H*-Benzo[*h*]-benzo[6,7]indolo[3,2-*b*]quinolines

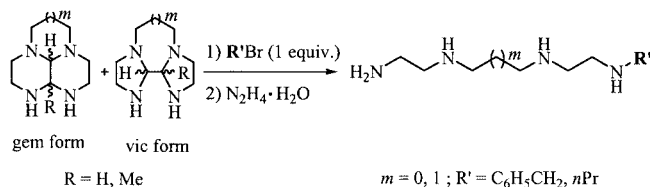
Keywords: Domino reactions / Electrocyclic reactions / Nitrogen heterocycles / Synthetic methods



5027 G. Claudon, N. Le Bris, H. Bernard, H. Handel*

Powerful *N*-Monoalkylation of Linear Tetraamines via Bisaminal Intermediates

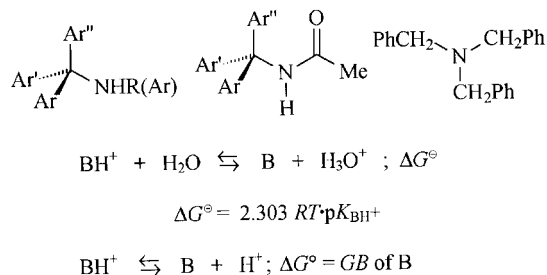
Keywords: Linear tetraamine / Linear octaamine / Glyoxal / Bisaminal / *N*-Monoalkylation



5031 M. Canle L., I. Demirtas, A. Freire, H. Maskill,* M. Mishima

Base Strengths of Substituted Tritylamines, *N*-Alkylanilines, and Tribenzylamine in Aqueous Solution and the Gas Phase: Steric Effects Upon Solvation and Resonance Interactions

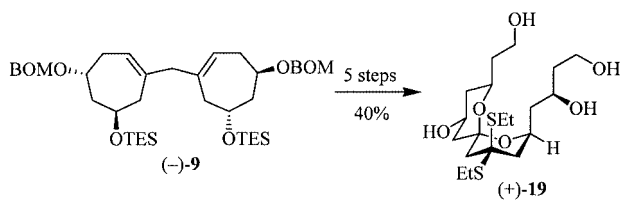
Keywords: Amines / Basicity / Density functional calculations / Solvent effects / Steric effects



5040 S. Gerber-Lemaire,* P. Vogel

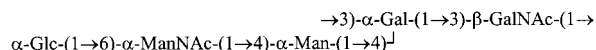
An Expedient Asymmetric Synthesis of Polyfunctional 1,7-Dioxaspiro[5.5]undecanes

Keywords: Bis(cyclohept-1-ene) derivatives / Ozonolysis / Polyfunctional spiroketals / Selective protection



- 5047** A. Silipo, A. Molinaro, C. De Castro,
R. Ferrara, I. Romano, B. Nicolaus,
R. Lanzetta,* M. Parrilli

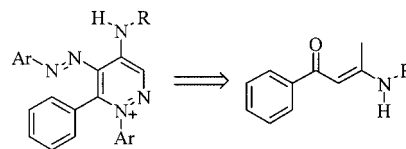
Structural Analysis of a Novel Polysaccharide of the Lipopolysaccharide-Deficient Extremophile Gram-Negative Bacterium *Thermus thermophilus* HB8



Keywords: Extremophiles / Natural products / Polysaccharides / *Thermus thermophilus*

- 5055** P. Šimůnek,* M. Pešková, V. Bertolasi,
A. Lyčka, V. Macháček

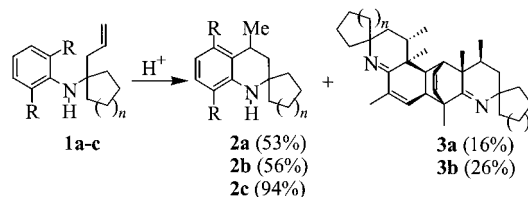
Formation of Pyridazinium Salts by Azo Coupling of *N*-Substituted 3-Amino-1-phenylbut-2-en-1-ones and Diazonium Salts



Keywords: Azo Coupling / Diazonium salts / Pyridazinium salts

- 5064** F. I. Zubkov,* E. V. Nikitina,
V. V. Kouznetsov, L. D. A. Duarte

Experimental Evidence for Intramolecular *ipso* Substitution of Alkyl Groups

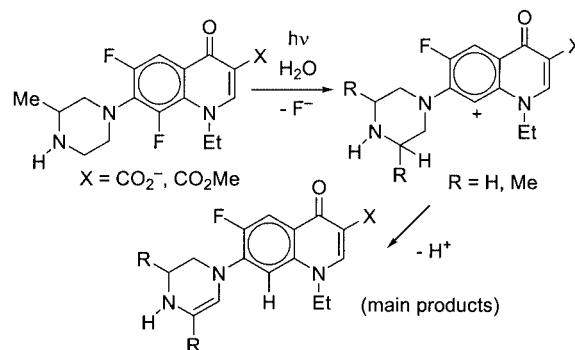


Keywords: Electrophilic substitution / Alkylation / Allylic compounds / Spiro compounds / N heterocycles / *ipso* substitution

a: R = Me, n = 1; b: R = Me, n = 2; c: R = Et, n = 2

- 5075** E. Fasani,* M. Mella, A. Albini*

Photochemistry of the Phototoxic Drug Lomefloxacin: Paths Observed in the Presence of Amines or NaOH and from the Methyl Ester

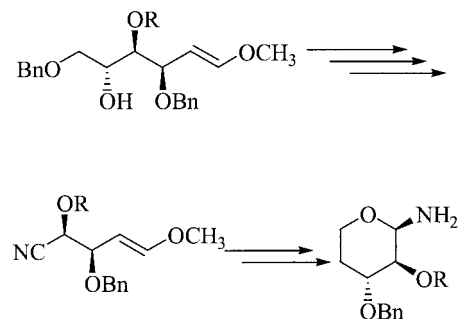


Keywords: Photochemistry / Phenyl cation / Aromatic fluorides / Quinolones / Drug photostability

5083 P. Passacantilli,* C. Centore, E. Ciliberti,
G. Piancatelli,* F. Leonelli

Neighboring-Group Participation in Nitrile-Forming Beckmann Fragmentation Reactions: Synthesis of Enantiopure (*E*)-2,3-Di-*O*-substituted-5-methoxypent-4-enitriles and Their Conversion into Pyranosylamines

Keywords: Beckmann fragmentation / Acyclic multifunctional methyl enol ethers / Enantiopure (*E*)-2,3-di-*O*-substituted-5-methoxypent-4-enitriles / Pyranosylamines

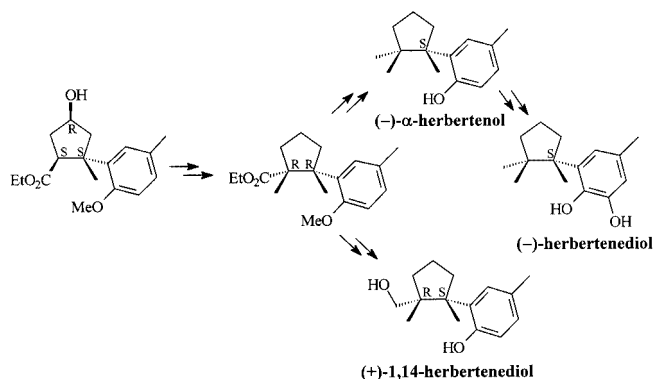


R = 2',3',4',6'-tetra-*O*-benzyl-β-D-galactopyranosyl

5092 S. Acherar, G. Audran, F. Fotiadu,
H. Monti*

Lipase-Promoted Access to Phenolic Herbertane-Type Sesquiterpenes: (+)-1,14-Herbertenediol, (–)-α-Herbertenol, (–)-Herbertenediol and Their Enantiomers

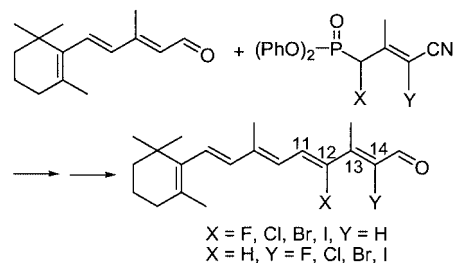
Keywords: Asymmetric synthesis / Conformational analysis / Lipases / Natural products



5100 Y. Wang, J. Lugtenburg*

Preparation of (*all-E*)- and (*11Z*)-12-Haloretinals and (*11Z*,*13Z*)- and (*13Z*)-14-Haloretinals by the C₁₅ + C₅ Route – Exploring the Possibility of Preparing any Retinoid Rationally Chemically Modified at any Position in the Conjugated Tail

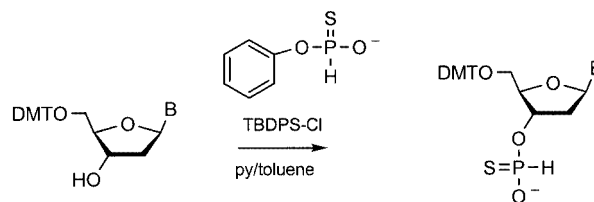
Keywords: Electrophiles / Nucleophiles / Selectfluor / DAST / Fluororetinals



5111 G. Lavén, J. Nilsson, J. Stawinski*

Silylation-Mediated Transesterification of *O*-Phenyl H-Phosphonothioates – A New Entry to Nucleoside H-Phosphonothioate Monoesters

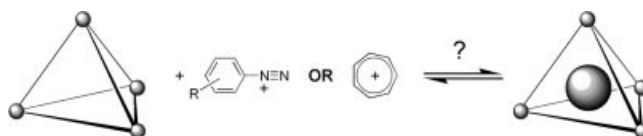
Keywords: Phosphonates / Phosphonothioates / Silylation / Transesterification



5115 J. L. Brumaghim, M. Michels, D. Pagliero,
K. N. Raymond*

Encapsulation and Stabilization of Reactive Aromatic Diazonium Ions and the Tropylium Ion Within a Supramolecular Host

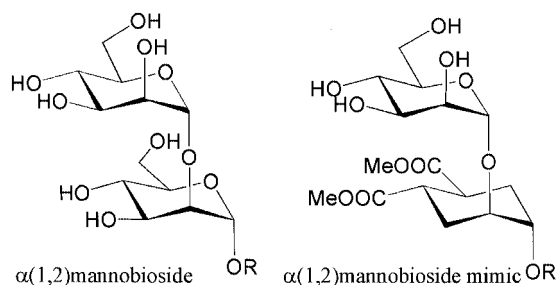
Keywords: Supramolecular chemistry / Host–guest systems / Stabilization



5119 S. Mari, H. Posterl, G. Marcou, D. Potenza,
F. Micheli, F. J. Cañada,
J. Jimenez-Barbero,* A. Bernardi*

Synthesis, Conformational Studies and Mannosidase Stability of a Mimic of 1,2-Mannobioside

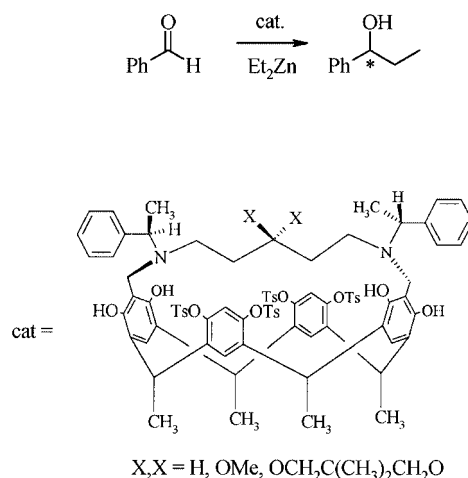
Keywords: Carbohydrate mimics / Conformational analysis / Mannobioside



5126 G. Arnott, H. Heaney, R. Hunter,*
P. C. B. Page

Synthesis of the First Chiral, Functionalised-Bridged Resorcinarenes in Asymmetric Catalysis: Evidence for Intracavity Asymmetric Catalysis

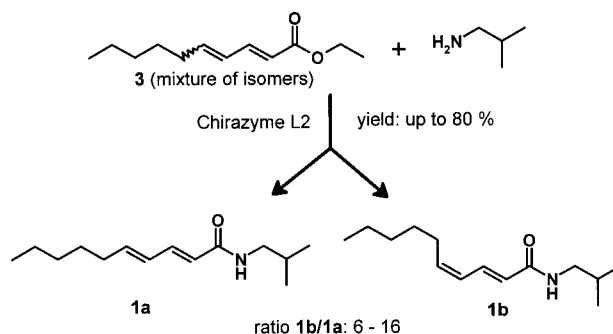
Keywords: Bridged resorcinarenes / Chiral resorcinarenes / Diethylzinc addition / Asymmetric catalysis / Intracavity catalysis



5135 J. P. Ley,* J.-M. Hilmer, B. Weber,
G. Krammer, I. L. Gatfield, H.-J. Bertram

Stereoselective Enzymatic Synthesis of *cis*-Pellitorine, a Taste Active Alkamide Naturally Occurring in Tarragon

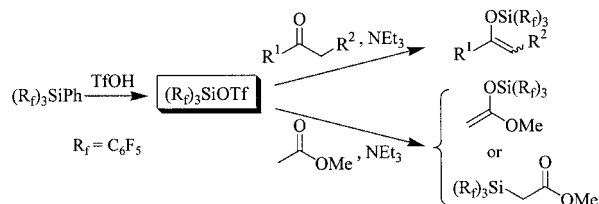
Keywords: Chemosensates / Alkamides / Acylation / Biotransformations / Diastereoselectivity



5141 V. V. Levin, A. D. Dilman,* P. A. Belyakov,
A. A. Korlyukov, M. I. Struchkova,
V. A. Tartakovsky

Tris(pentafluorophenyl)silyl Triflate: Synthesis and Silylation of Carbonyl Compounds

Keywords: Carbonyl compounds / Perfluorinated ligands / Silicon / Silylation



5149 Index 2004