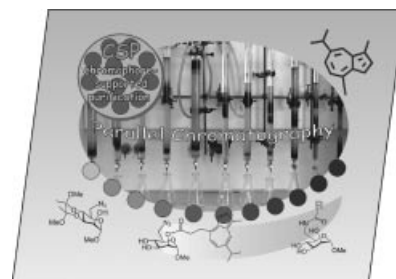


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COVER PICTURE

The cover picture shows an example of parallel column chromatography, which is part of a methodology that is called “chromophore-supported purification” (CSP). This approach speeds up the separation of products and by-products in parallel synthesis. CSP is based on the introduction of a suitable azulene derivative into the starting materials used in a synthetic sequence or parallel reaction. The azulene moiety serves as a chromophore and as a protecting group. This approach has facilitated the structural diversification of carbohydrate ligands, for example, as presented in the Short Communication by I. Aumüller and T. Lindhorst on p. 1103 ff.



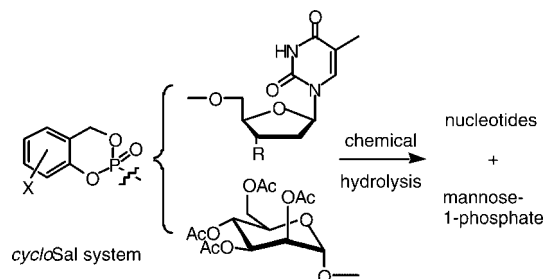
MICROREVIEW

Contents

1081 C. Meier*

cycloSal Phosphates as Chemical Trojan Horses for Intracellular Nucleotide and Glycosylmonophosphate Delivery – Chemistry Meets Biology

Keywords: Antiviral agents / Carbohydrates / Drug delivery / Nucleosides / Nucleotides



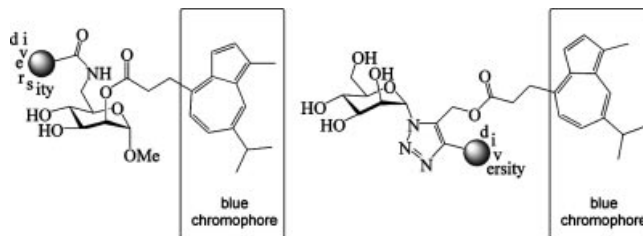
SHORT COMMUNICATIONS

1103 I. Aumüller, T. K. Lindhorst*



Chromophore-Supported Purification in Parallel Synthesis

Keywords: Separation techniques / Chromatography / Color marker / Parallel synthesis / 1,3-Dipolar cycloaddition / Carbohydrates

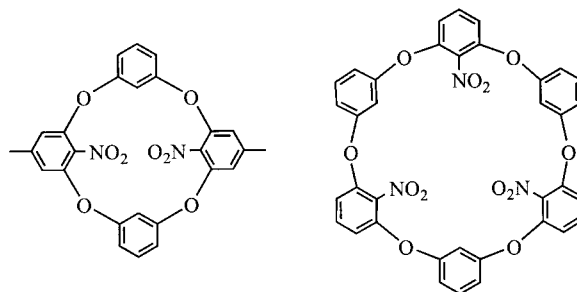


1109 F. Yang, L. Yan, K. Ma, L. Yang, J. Li, L. Chen, J. You*



Efficient Synthesis of a Variety of New Functionalized Oxalixarenes by Ullmann Coupling Reactions

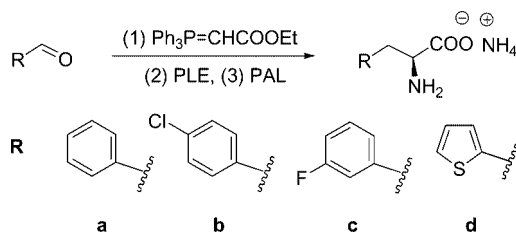
Keywords: N ligands/ Ullmann coupling reactions/ Oxalixarenes/ Cyclization



1113 C. Paizs, A. Katona, J. Rétey*

Chemoenzymatic One-Pot Synthesis of Enantiopure L-Arylalanines from Arylaldehydes

Keywords: Wittig reaction / Porcine liver esterase / Phenylalanine ammonia lyase / Sonification / Broad substrate specificity

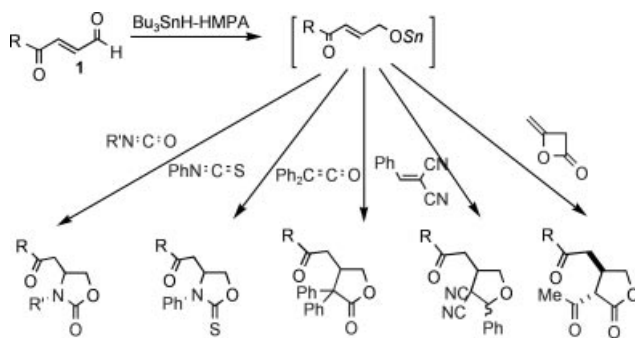


1117 H. Kato, I. Shibata,* N. Kanazawa, M. Yasuda, A. Baba



One-Pot Synthesis of Heterocycles Initiated by Chemoselective Reduction of Bifunctional Carbonyl Compounds

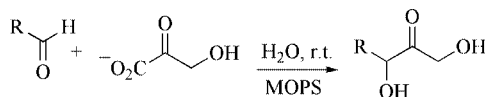
Keywords: Tin hydride / Reduction / Heterocycles / One-pot synthesis



1121 M. E. B. Smith, K. Smithies, T. Senussi, P. A. Dalby, H. C. Hailes*

The First Mimetic of the Transketolase Reaction

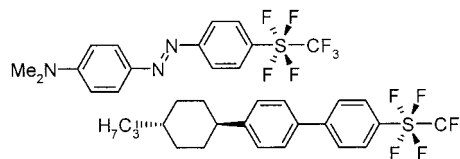
Keywords: Water chemistry / Aldehydes / C–C coupling / Transketolase / Enolates



1125 P. Kirsch,* A. Hahn

Liquid Crystals Based on Hypervalent Sulfur Fluorides: The *trans*-(Trifluoromethyl)tetrafluorosulfuranyl Group

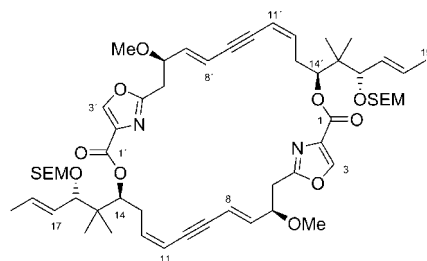
Keywords: Density functional calculations / Dyes / Liquid crystals / Fluorination / Hypervalent sulfur fluorides / Lipophilicity / (Trifluoromethyl)tetrafluorosulfuranyl group



1132 B. Niess, I. V. Hartung, L. O. Haustedt, H. M. R. Hoffmann*

Synthesis of a Tetradehydro-Disorazole C₁

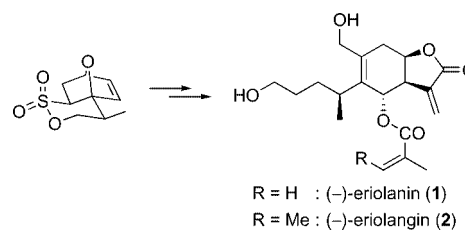
Keywords: Disorazoles / Macrodilides / 1,3-Oxazoles / Natural product synthesis



1144 J. Merten, A. Hennig, P. Schwab, R. Fröhlich, S. V. Tokalov, H. O. Gutzeit, P. Metz*

A Concise Sultone Route to Highly Oxygenated 1,10-*seco*-Eudesmanolides – Enantioselective Total Synthesis of the Antileukemic Sesquiterpene Lactones (–)-Eriolanin and (–)-Eriolangin

Keywords: Antitumor agents / Domino reactions / Sulfur heterocycles / Terpenoids / Total synthesis

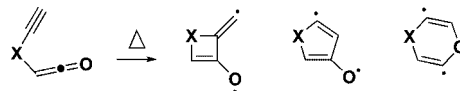


1162 P. R. Schreiner,* B. H. Bui



Moore Cyclizations: Rearrangements of 3-Heteroatom-pent-1-en-4-yn-1-ones – A Computational Search for New Reactions

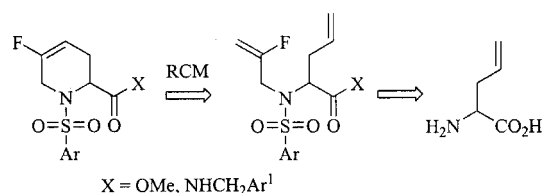
Keywords: Enones / Enynes / Radicals / Rearrangements



1166 V. De Matteis, F. L. van Delft, J. Tiebes, F. J. T. Rutjes*

A Ring-Closing Metathesis Pathway to Fluorovinyl-Containing Nitrogen Heterocycles

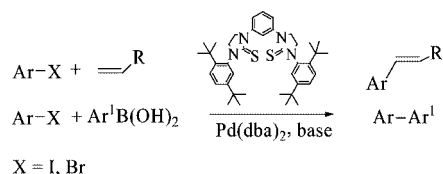
Keywords: Ring-closing metathesis / Cyclic amino acids / Vinyl fluoride / Fluorinated heterocycles / Fluoroacrylates



1177 W. Chen, R. Li, B. Han, B.-J. Li,
Y.-C. Chen,* Y. Wu, L.-S. Ding, D. Yang



The Design and Synthesis of Bis(thiourea) Ligands and Their Application in Pd-Catalyzed Heck and Suzuki Reactions Under Aerobic Conditions

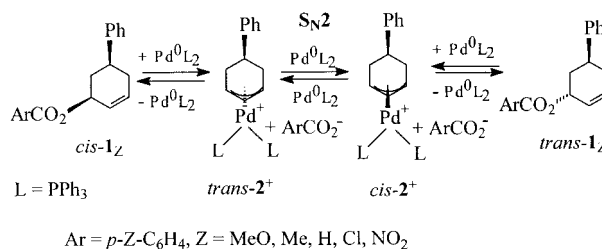


Keywords: Cross-coupling / Homogeneous catalysis / Palladium / S ligands

1185 C. Amatore,* A. Jutand,* L. Mensah,
G. Meyer, J.-C. Fiaud,* J.-Y. Legros



Effect of the Leaving Group on the Rate and Mechanism of the Palladium-Catalyzed Isomerization of Cyclic Allylic Benzoates in Allylic Substitutions

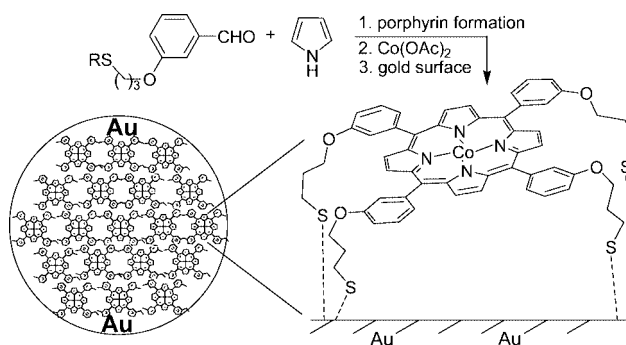


Keywords: Palladium / Allylic benzoates / Allylic complexes / Mechanism / Kinetics / Isomerization

1193 A. H. Éll, G. Csajnyik, V. F. Slagt,
J.-E. Bäckvall,* S. Berner, C. Puglia,*
G. Ledung, S. Oscarsson*



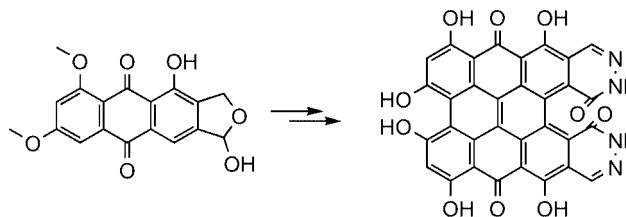
Synthesis of Thioacetate-Functionalized Cobalt(II) Porphyrins and Their Immobilization on Gold Surface – Characterization by X-ray Photoelectron Spectroscopy



Keywords: Functionalized porphyrin / Immobilization / Gold surface / Monolayers / Photoelectron Spectroscopy

1200 M. Waser, H. Falk*

Condensed Emodin Derivatives and Their Applicability for the Synthesis of a Fused Heterocyclic Hypericin Derivative



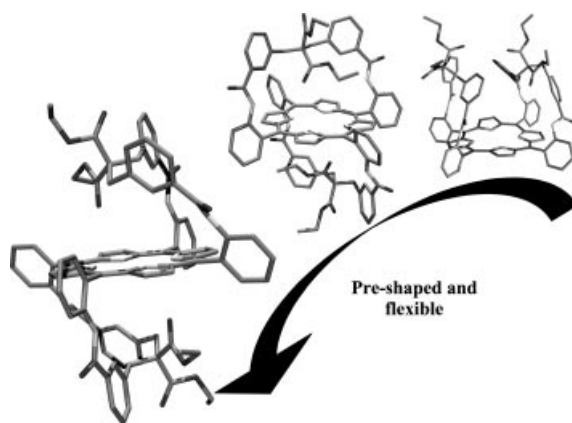
Keywords: Photosensitizers / Hypericin / Anthraquinones / Marschalk reaction / Electrophilic substitution

- 1207 Z. Halime, S. Balieu, M. Lachkar,
T. Roisnel, P. Richard, B. Boitrel*



Functionalization of Porphyrins: Mechanistic Insights, Conformational Studies, and Structural Characterizations

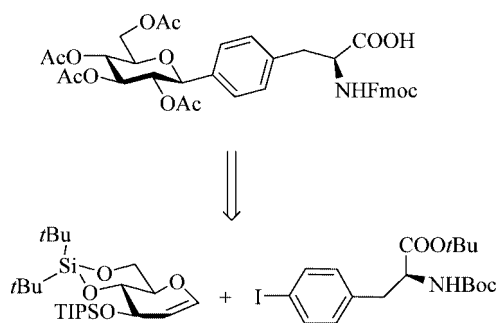
Keywords: Porphyrins / Pre-organization / Cation binding



- 1216 M. Ousmer, V. Boucard, N. Lubin-Germain,
J. Uziel,* J. Augé*

Gram-Scale Preparation of a *p*-(C-Glucopyranosyl)-L-phenylalanine Derivative by a Negishi Cross-Coupling Reaction

Keywords: Amino acids / C-Glycosides / Cross-coupling / Palladium / Zinc

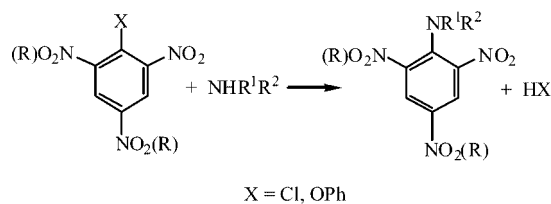


- 1222 M. R. Crampton,* T. A. Emokpae,
C. Isanbor,* A. S. Batsanov,
J. A. K. Howard, R. Mondal



Effects of *ortho*- and *para*-Ring Activation on the Kinetics of S_NAr Reactions of 1-Chloro-2-nitro- and 1-Phenoxy-2-nitrobenzenes with Aliphatic Amines in Acetonitrile

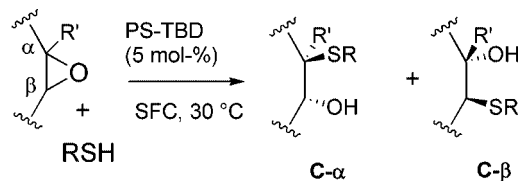
Keywords: Kinetics / Nucleophilic aromatic substitution / Steric hindrance / Substituent effects



- 1231 F. Fringuelli,* F. Pizzo, C. Vittoriani,
L. Vaccaro*

Polystyrene-Supported 1,5,7-Triazabicyclo[4.4.0]-dec-5-ene as an Efficient and Reusable Catalyst for the Thiolytic of 1,2-Epoxydes under Solvent-Free Conditions

Keywords: Supported catalysts / Solvent-free reactions / 1,2-Epoxydes / Thiolytic / Green chemistry

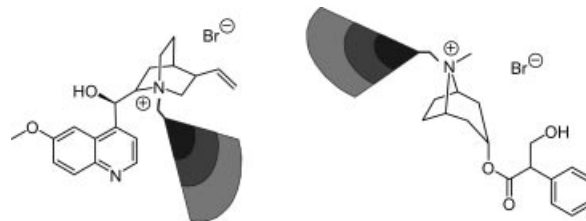


PS-TBD = polystyrene-supported 1,5,7-triazabicyclo[4.4.0]dec-5-ene

1237 U. Hahn, A. Kaufmann, M. Nieger,
O. Julínek, M. Urbanova, F. Vögtle*

Preparation and Chiroptical Studies of Dendritic Alkaloid Derivatives

Keywords: Alkaloids / Chirality / Circular dichroism / Dendrimers

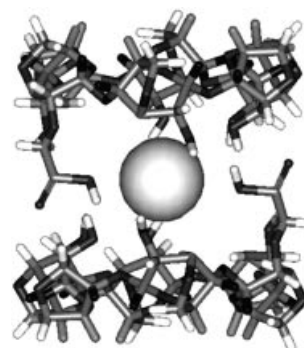


1245 L. Rambaud, J.-P. Dalbiez, B. Amekraz,
C. Moulin, B. Perly, C. Baudin*



Influence of Monosubstitution of Hexakis(3,6-anhydro)cyclomaltohexaose on Its Complexation Properties with Ions, with Special Attention to Heavy Metals

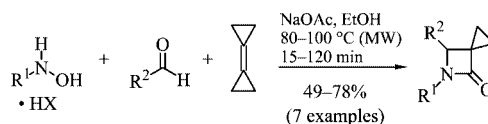
Keywords: Cyclodextrins / Host–guest systems / Cations / Lead



1251 A. Zanobini, A. Brandi, A. de Meijere*

A New Three-Component Cascade Reaction to Yield 3-Spirocyclopropanated β -Lactams

Keywords: Cascade reactions / Cycloadditions / β -Lactams / Microwaves / Small rings / Cyclopropanes

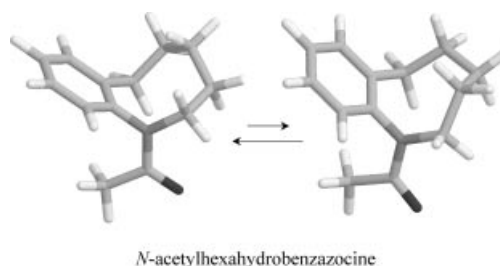


1256 A. Hassner, B. Amit, V. Marks,
H. E. Gottlieb*



On the Conformation of 8-Membered Ring Heterocycles – Dynamic and Static Conformational Analysis of Acylated Hexahydrobenzazocines

Keywords: Acylated benzazocines / Conformation analysis / Dynamic NMR spectroscopy / EXSY / Amide rotation

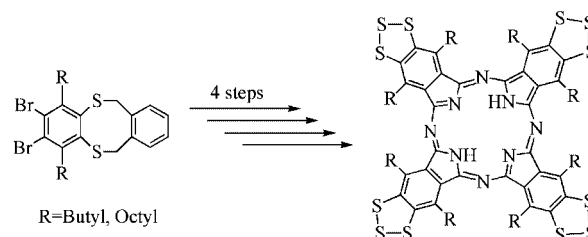


1262 T. Kimura,* T. Suzuki, Y. Takaguchi,
A. Yomogita, T. Wakahara, T. Akasaka



Preparation and Electrochemical Properties of 1,4,8,11,15,18,22,25-Octalkylphthalocyanines Containing Four Trithiole Rings

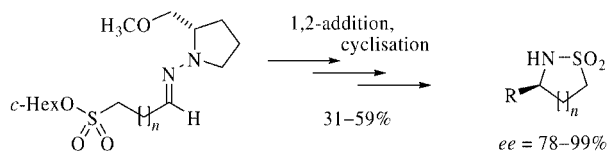
Keywords: Phthalocyanines / Sulfur heterocycles / Radical ions



1271 D. Enders,* A. Moll, J. W. Bats

Asymmetric Synthesis of 3-Substituted γ - and δ -Sultams

Keywords: Asymmetric synthesis / Aminosulfonates / Cyclisation / Sulfonamides / Sultams

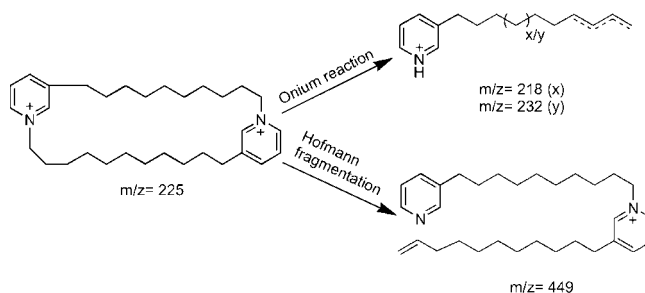


1285 A. Grube, C. Timm, M. Köck*



Synthesis and Mass Spectrometric Analysis of Cyclostelletamines H, I, K and L

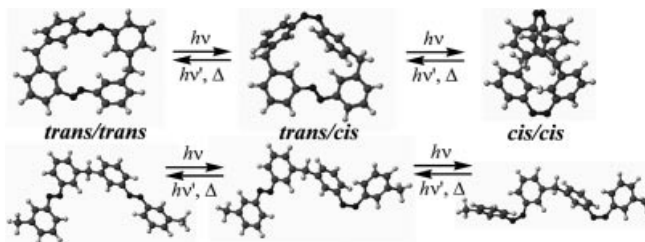
Keywords: Mass spectrometry / Natural products / Structure elucidation / Total synthesis



1296 Y. Norikane, N. Tamaoki*

Photochemical and Thermal *cis/trans* Isomerization of Cyclic and Noncyclic Azobenzene Dimers: Effect of a Cyclic Structure on Isomerization

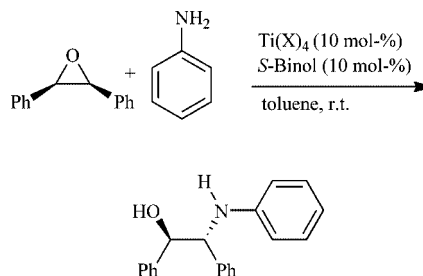
Keywords: Azobenzene / Cyclophane / Macrocycle / Photoisomerization / Dimer / Molecular devices



1303 R. I. Kureshy,* S. Singh, N. H. Khan,
S. H. R. Abdi, E. Suresh, R. V. Jasra

Facile Enantioselective Ring-Opening Reaction of *meso* Epoxides with Anilines Using (*S*)-(-)-BINOL-Ti Complex as Catalyst

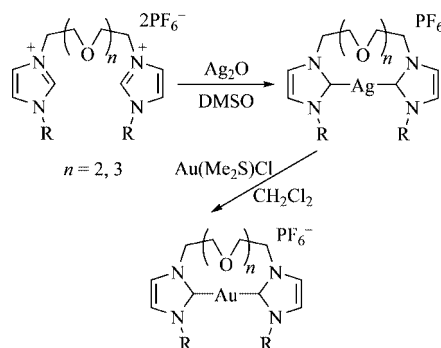
Keywords: Asymmetric ring opening / Catalysis / Epoxides / Anilines



1310 J.-W. Wang,* Q.-S. Li,* F.-B. Xu,
H.-B. Song, Z.-Z. Zhang*

Synthetic and Structural Studies of Silver(I)- and Gold(I)-Containing N-Heterocyclic Carbene Metallacrown Ethers

Keywords: Carbene ligands / Crown compounds / Gold / Silver

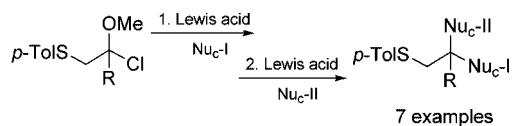


1317

A. V. Gromov, W. A. Smit*

β -Arylthio- α -chloroalkyl Ethers – Novel 1,1-Bis-electrophiles for Geminal Alkylation

Keywords: Episulfonium ion / Arylthio-stabilized electrophiles / Geminal bis-electrophiles / Alkylation / Geminal alkylation / Synthetic methods



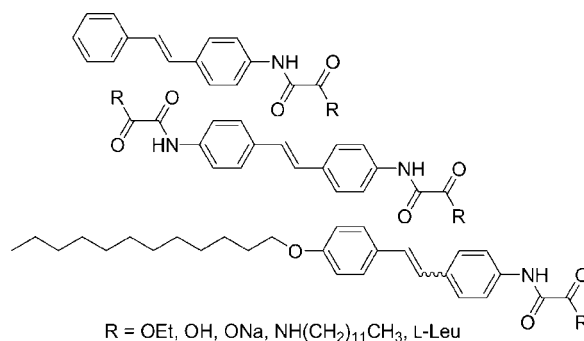
Nu_C-I, Nu_C-II of the general structure: $\text{CH}_2=\text{C}(\text{X})\text{MR}'_3$

1323

S. Miljanić,* L. Frkanec, Z. Meić, M. Žinić

Gelation Ability of Novel Oxamide-Based Derivatives Bearing a Stilbene as a Photo-Responsive Unit

Keywords: Gels / Self-assembly / Oxamides / Stilbenes



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