ARKIVOC Volume 2011
Part (vii): Regional Issue 'Organic Chemistry in Argentina'
Facilitators: Rolando Angel Spanevello and Elba Bujan
Scientific Editor: Panayiotis A. Koutentis

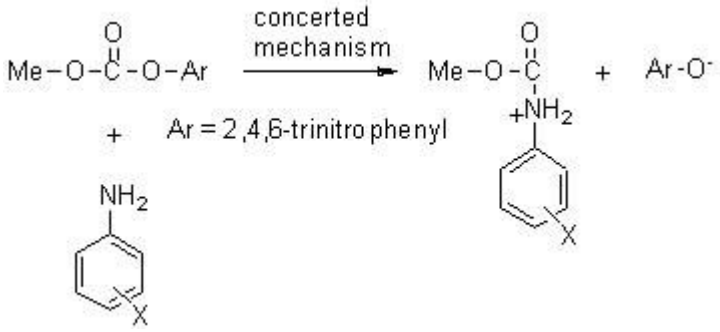
1. A Tribute to Prof. Manuel GonzÃ¡lez Sierra (AG-1456ST)
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2. A Tribute to Prof. Rita H. de Rossi (AG-1455ST)
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3. A Tribute to Prof. Oscar Santiago Giordano (AG-1454ST)
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4. A Tribute to Prof. Julio CÃ©sar PodestÃ¡ (AG-1453ST)
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5. Kinetics and mechanism of the reactions of methyl 2,4,6-trinitrophenyl carbonate with anilines (AG-5488SP)
Enrique A. Castro, Margarita E. Aliaga and Jose G. Santos
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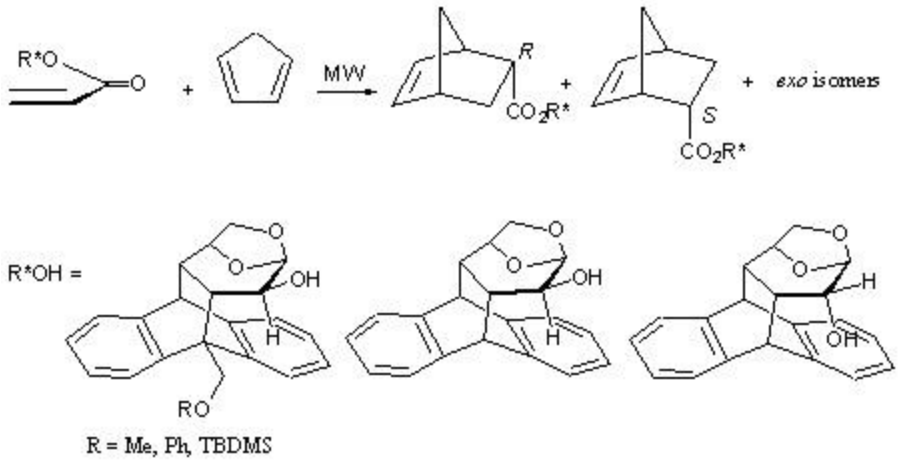
received Jun 4 2010; accepted Oct 6 2010; published Dec 26 2010;

6. Microwave-assisted asymmetric Diels-Alder reaction using chiral auxiliaries derived from biomass (AG-5641SP)

Ariel M. Sarotti, Rolando A. Spanevello and Alejandra G. SuÃ¡rez

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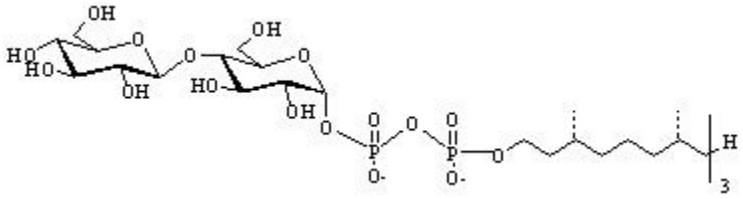
received Jul 18 2010; accepted Aug 26 2010; published Dec 30 2010;

7. Improved synthesis of phytanyl α-D-cellobiosyldiphosphate as substrate for α-D-mannosyltransferase (AG-5735SP)

Pablo Barrios, Luis Ielpi and Carla Marino

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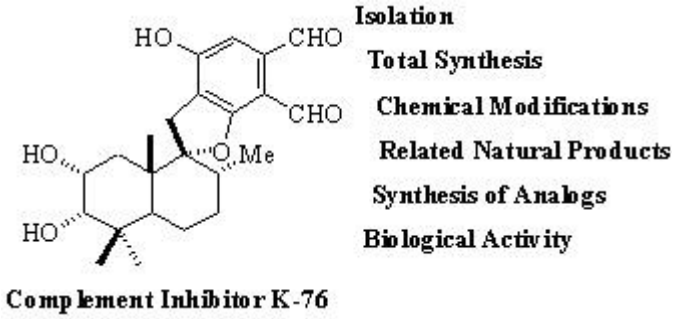
received Aug 9 2010; accepted Nov 29 2010; published Dec 30 2010;

8. Isolation, synthesis and complement inhibiting activity of the naturally occurring K-76, its analogues and derivatives (AG-5704SR)

Enrique L. Larghi and Teodoro S. Kaufman

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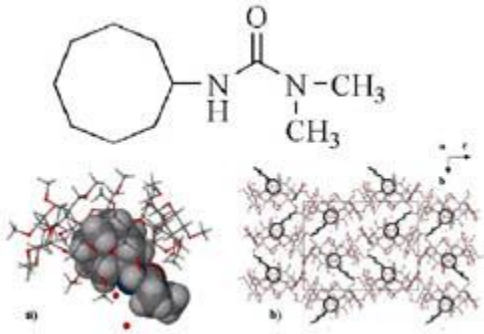
received Jul 30 2010; accepted Oct 16 2010; published Jan 29 2011;

9. Solid-state structures and thermal properties of inclusion complexes of the phenylurea herbicide cycluron with permethylated cyclodextrins (AG-5715SP)

Mino R. Caira, Dyanne L. Cruickshank and Susan A. Bourne

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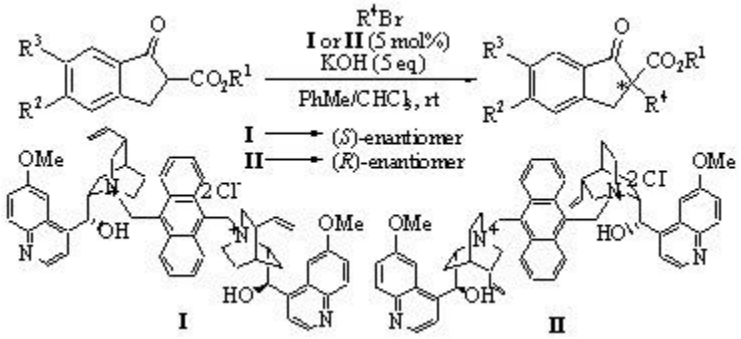
received Aug 3 2010; accepted Nov 10 2010; published Jan 30 2011;

10. Enantioselective alkylation of β-keto esters promoted by dimeric *Cinchona*-derived ammonium salts as recoverable organocatalysts (AG-6085SP)

Silvia TarÃ, Rafael Chinchilla, Carmen NÃ¡jera and Miguel Yus

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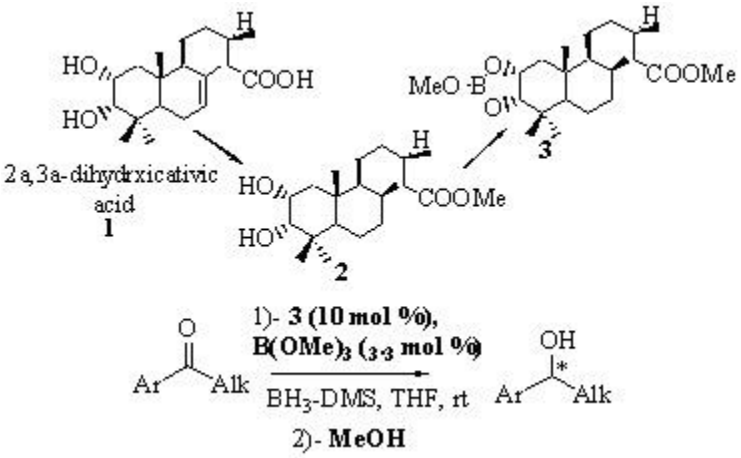
received Nov 22 2010; accepted Jan 13 2011; published Feb 4 2011;

11. Enantioselective reduction of prochiral aryl ketones using a novel chiral auxiliary derived from a labdane diterpene (AG-5785SP)

Diego A. Cifuente and Carlos E. Tonn

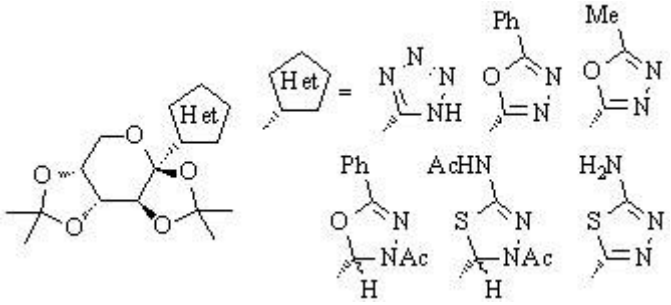
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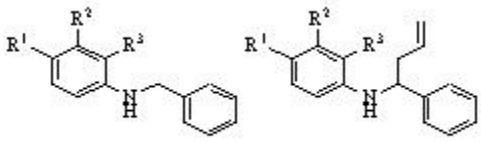
received Aug 24 2010; accepted Sep 29 2010; published Feb 4 2011;

12. Topiramate heterocyclic analogues: synthesis and spectroscopic characterization (AG-6051SP)
Norma Beatriz D'Accorso and Miriam Amelia Martins Alho
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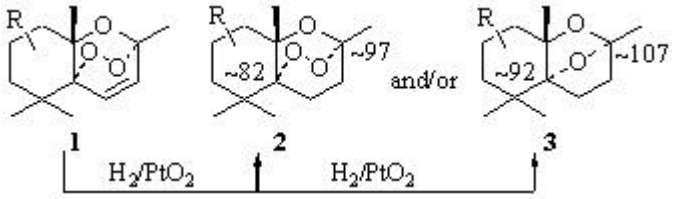
received Nov 10 2010; accepted Dec 26 2010; published Feb 4 2011;

13. Synthesis and antifungal activity of *N*-aryl-*N*-benzylamines and of their homoallyl analogues (AG-6071SP)
Francisco M. Garibotto, Maximiliano A. Sortino, Vladimir V. Kouznetsov, Ricardo D. Enriz and Susana A. Zacchino
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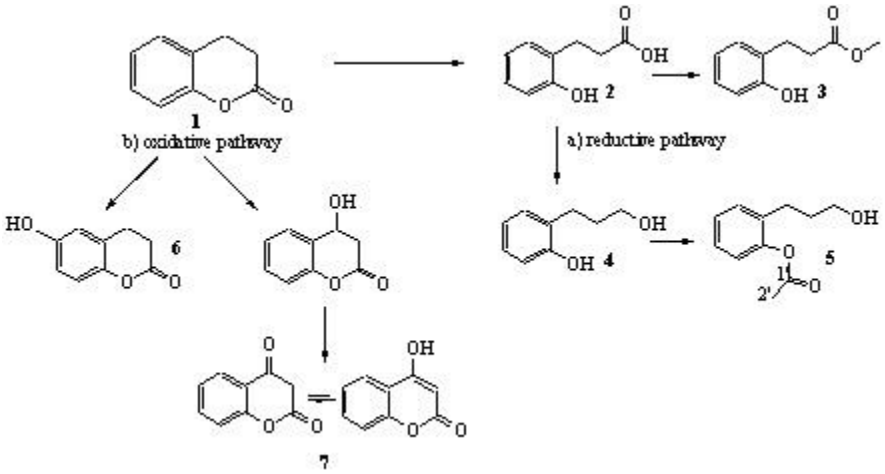
received Nov 15 2010; accepted Jan 13 2011; published Feb 6 2011;

14. Structural characterization of strained oxacycles by ^{13}C NMR spectroscopy (AG-5508SP)
MartÃn J. Riveira, Agustina La-Venia and Mirta P. Mischne
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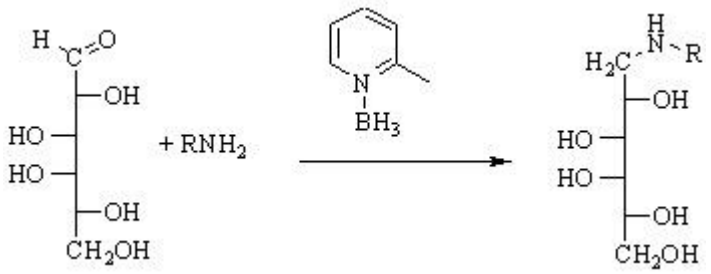
received Jun 11 2010; accepted Aug 30 2010; published Feb 6 2011;

15. Biotransformation of dihydrocoumarin by *Aspergillus niger* ATCC 11394 (AG-6063SP)
Celeste B. Aguirre-Pranzoni, Gabriela I. Furque, Carlos E. Ardanaz, Adriana Pacciaroni, Virginia Sosa, Carlos E. Tonn and Marcela Kurina-Sanz
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received Nov 12 2010; accepted Jan 19 2011; published Feb 6 2011;

16. Usage of α-picoline borane for the reductive amination of carbohydrates (AG-6100SP)
Vanina A. Cosenza, Diego A. Navarro and Carlos A. Stortz
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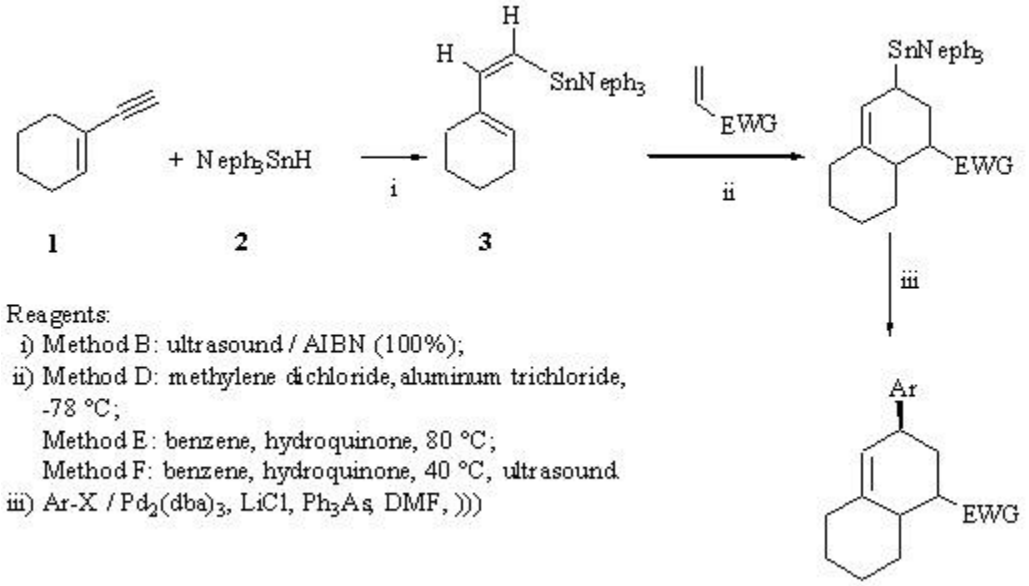
received Nov 26 2010; accepted Jan 13 2011; published Feb 6 2011;

17. Bicyclic allyltin derivatives through selective Â“one potÂ” hydrostannation - Diels-Alder reaction (AG-6072SP)

Romina A. Ocampo, Sandra D. Mandolesi and Liliana C. Koll

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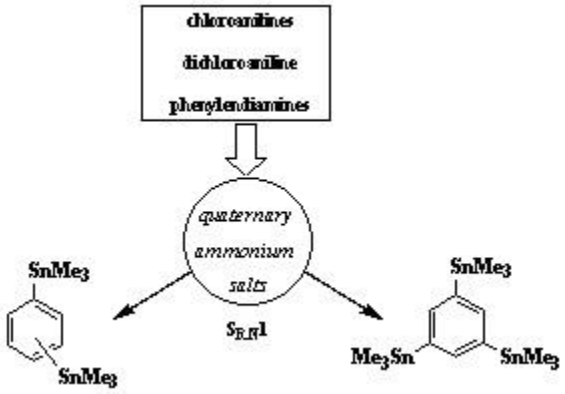
received Nov 16 2010; accepted Dec 29 2010; published Feb 16 2011;

18. Two-step synthesis of di- and tristannylarenes from anilines *via* an $S_{RN}1$ mechanism (AG-5952SP)

Gustavo F. Silbestri, MarÃa T. Lockhart and Alicia B. Chopa

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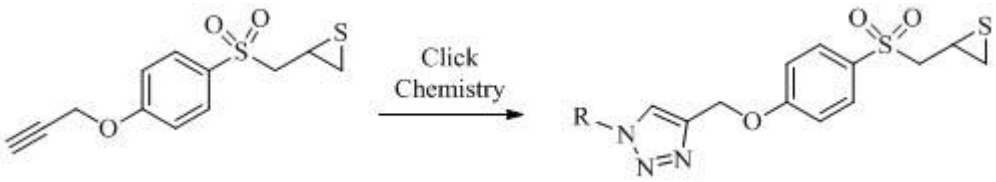
received Oct 12 2010; accepted Dec 3 2010; published Feb 27 2011;

19. Exploring the functional space of thiiranes as gelatinase inhibitors using click chemistry (AG-5839SP)

Sebastian A. Testero, Leticia I. Llarrull, Jed F. Fisher, Mayland Chang and Shahriar Mobashery

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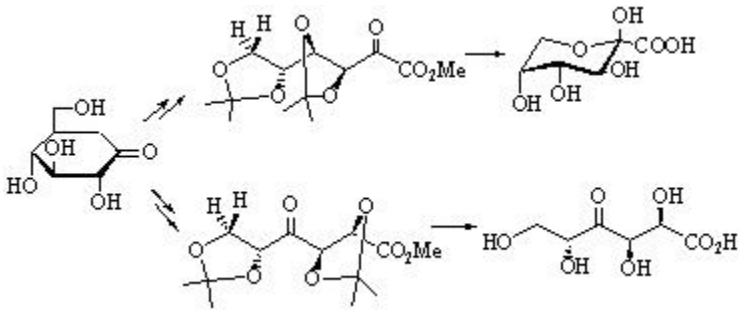
received Sep 6 2010; accepted Dec 18 2010; published Feb 27 2011;

20. A convenient synthesis of hexulosonic acids by IBX mediated oxidation of D-glucono-1,5-lactone derivatives (AG-5954SP)

Adriana A. Kolender, Sol C. ParajÃ³n Puenzo and Oscar Varela

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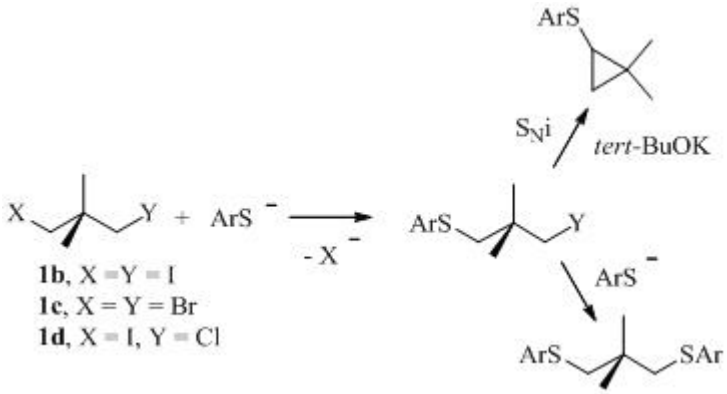
received Oct 13 2010; accepted Feb 20 2011; published Mar 13 2011;

21. Substitution reactions between arenethiolate anions and 1,3-dihalo-2,2-dimethylpropanes. Synthetic scope and mechanistic aspects (AG-5829SP)

Alicia Beatriz PeÃ±Ã©Ã±ory, Cecilia Andrea Barrionuevo and Juan Elias ArgÃ¼ello

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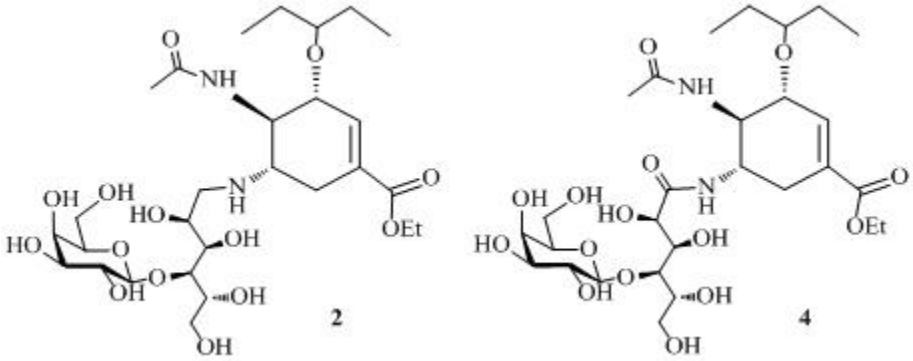
received Sep 3 2010; accepted Nov 7 2010; published Mar 13 2011;

22. Synthesis of oseltamivir conjugates with lactose analogs for inhibition studies on *Trypanosoma cruzi* trans-sialidase (AG-6092SP)

M. Eugenia Giorgi, Damian Piuselli, Rosalia Agusti and Rosa M. de Lederkremer

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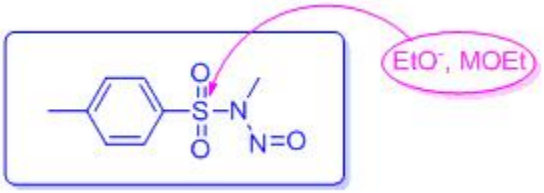
received Nov 24 2010; accepted Dec 18 2010; published Mar 13 2011;

23. Catalysis of the ethanolysis of *N*-methyl-*N*-nitroso-*p*-toluenesulfonamide by alkali metal ions (AG-5475SP)

Luis Garcia-Rio, Maria Luz Raposo-Barreiro and Pedro Rodriguez-Dafonte

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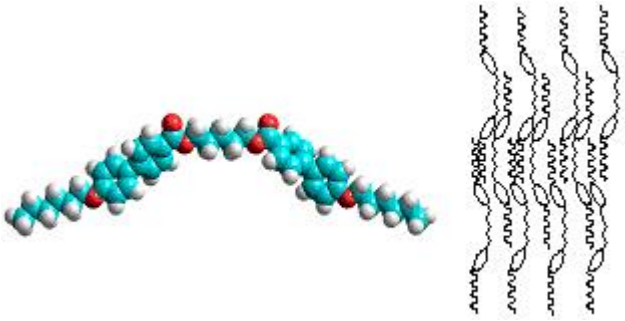
received Jun 2 2010; accepted Dec 18 2010; published Mar 13 2011;

24. Bent-shaped liquid crystal dimers. Influence of the direction of the oxybiphenylenecarboxyl groups on their mesomorphic behavior (AG-6128SP)

Claudia M. Hegguilustoy, Rosana S. Montani, MarÃa B. Darda, Pablo G. Del Rosso and RaÃºl O. Garay

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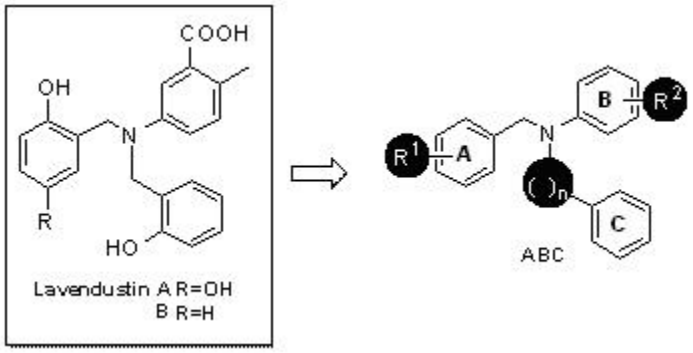
received Dec 1 2010; accepted Feb 10 2011; published Mar 20 2011;

25. Parallel solution synthesis of lavendustin analogs as antileishmanial agents (AG-6137SP)

Diego G. Ghiano, Paulo B. Carvalho, Babu L. Tekwani, Mitchell A. Avery and Guillermo Labadie

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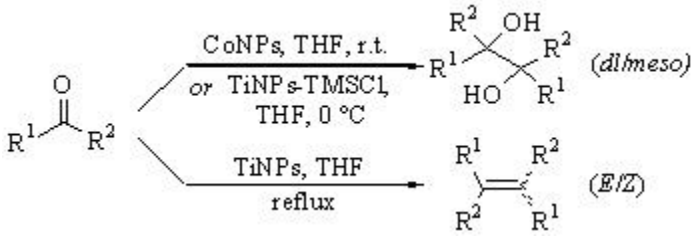
received Dec 3 2010; accepted Feb 7 2011; published Mar 20 2011;

26. Reductive coupling of carbonyl compounds promoted by cobalt or titanium nanoparticles (AG-6079SP)

Fabiana Nador, Evangelina MascarÃ³, Melisa Castro, Cristian Vitale and Gabriel Radivoy

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received Nov 19 2010; accepted Feb 7 2011; published Mar 20 2011;

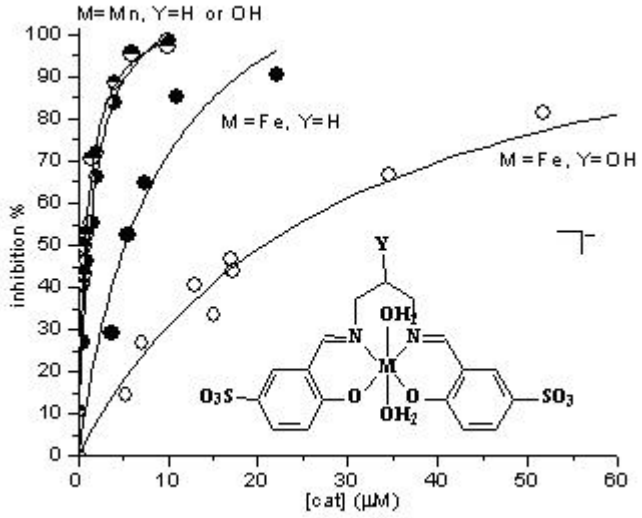
27. Properties and antioxidant activity of water-soluble iron catalysts with Schiff base ligands. Comparison with their manganese counterparts (AG-6120SP)

VerÃ³nica A. Daier, Claudia M. Palopoli, Christelle Hureau, Ariel De Candia and Sandra R. Signorella

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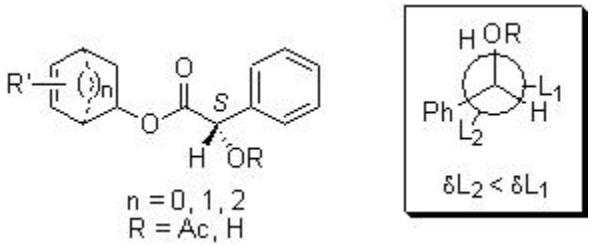
received Nov 30 2010; accepted Feb 20 2011; published Mar 20 2011;

28. Evaluation of the use of mandelate derivatives to determine the enantiomeric purity and the absolute configuration of secondary cyclohexenols (AG-6101SP)

Ariel M. Sarotti, Pablo L. Pisano and Silvina C. Pellegrinet

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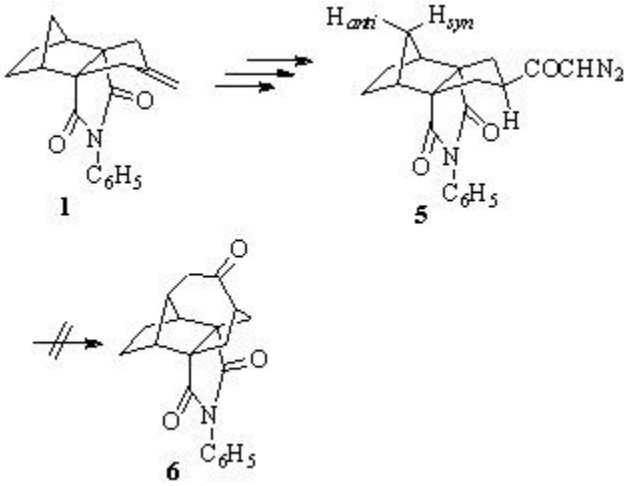
received Nov 26 2010; accepted Feb 7 2011; published Mar 20 2011;

29. Attempted synthesis of 2-oxo-*N*-phenyltetracyclo[7.2.1.0^{2,6}.0^{5,11}]-dodecane-9,10-dicarboximide by intramolecular *α*-ketocarbene insertion into an unactivated C-H bond (AG-5991SP)

Pelayo Camps, JosÃ© A. FernÃ¡ndez, Santiago VÃ¡zquez, MercÃ¨ Font-Bardia and Xavier Solans

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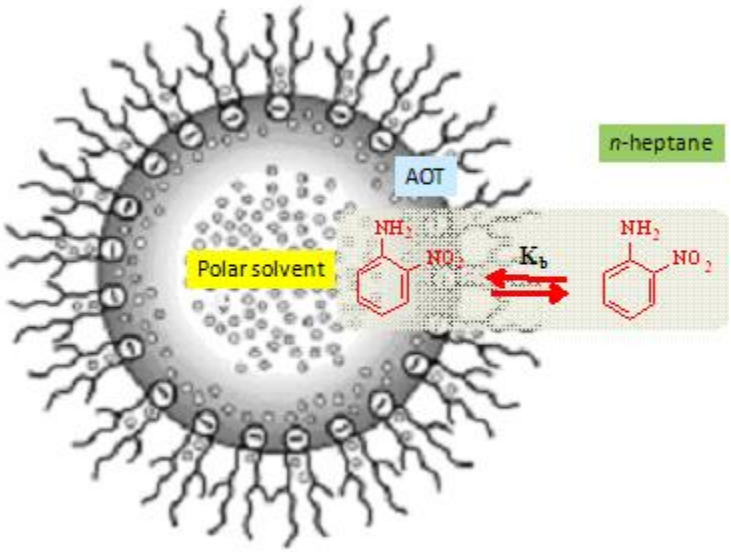
received Oct 25 2010; accepted Dec 29 2010; published Mar 25 2011;

30. Binding of *o*-nitroaniline to nonaqueous AOT reverse micelles (AG-6090SP)

R. Dario Falcone, Juana J. Silber, M. Alicia Biasutti and N. Mariano Correa

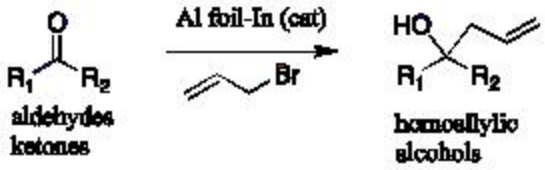
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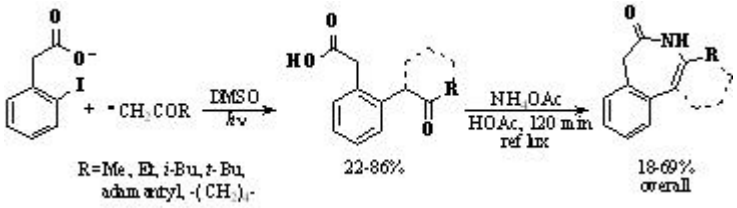
received Nov 23 2010; accepted Feb 7 2011; published Apr 19 2011;

31. Barbier allylation of aldehydes and ketones with aluminium and catalytic indium metal: an economical alternative (AG-6109SP)
Marcelo D. Preite, Hugo A. Jorquera-Geroldi and AndrÃ©s PÃ©rez-Carvajal
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received Nov 29 2010; accepted Mar 3 2011; published Apr 21 2011;

32. Synthesis of ε-oxo acids by photostimulated reactions of 2-(2-iodophenyl)acetate ion with carbanions by the $S_{RN}1$ mechanism. Synthesis of novel 3-benzazepin-2-ones (AG-6077SP)
Javier F. Guastavino, MarÃa E. BudÃ©n, Carolina S. GarcÃa and Roberto A. Rossi
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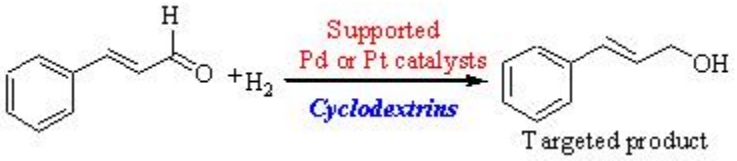
received Nov 18 2010; accepted Feb 7 2011; published May 9 2011;

33. Hydrogenation of cinnamaldehyde with heterogeneous catalyst in the presence of cyclodextrins (AG-6114SP)

Mohamad Jahjah, Benoit Caron, StÃ©phane Menuel, Eric Monflier, Laurent Djakovitch and Catherine Pinel

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received Nov 30 2010; accepted Mar 22 2011; published May 9 2011;

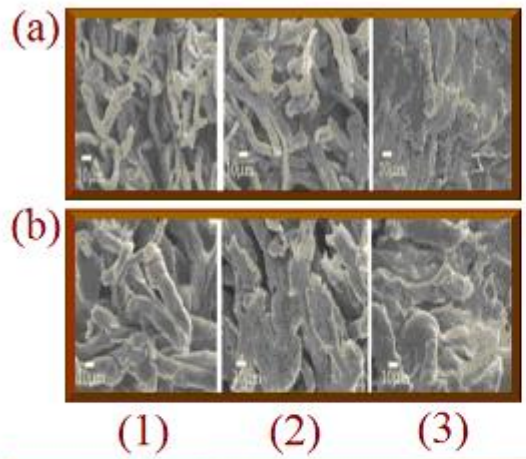
34. A physical organic chemistry approach to dissolution of cellulose: effects of cellulose mercerization on its properties and on the kinetics of its decrystallization (AG-6318SP)

Ludmila A. Ramos, Daniella L. Morgado, Fergus Gessner, Elisabete Frollini and Omar A. El Seoud

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Supplementary Material: PDF (177K)

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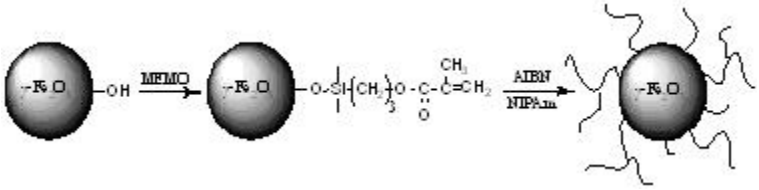


First steps of cellulose dissolution involve → penetration of the solvated LiCl/DMAc complex into the amorphous regions, decrystallization of the crystalline domains → both processes are accompanied by fiber disintegration → advances as a function of increasing contact time, and decreasing temperature.

Undissolved celluloses - SEM images of (a) mercerized sisal (M4h) and (b) mercerized linters (M4h) celluloses - withdrawn from the dissolution medium:
1) at the beginning (150 °C); 2) after 90 min from the start (150 °C); 3) after 160 min from the start (78 °C)

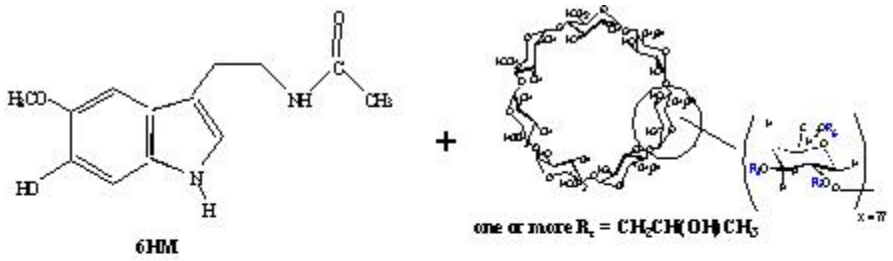
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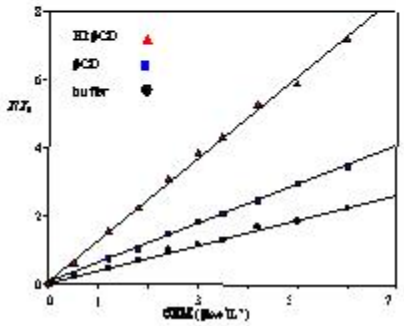
35. Synthesis and characterization of thermo-sensitive magnetic maghemite nanoparticles (AG-6156SP)
Ariel L. Cappelletti, Julieta I. Paez and Miriam C. Strumia
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received Dec 8 2010; accepted May 5 2011; published May 24 2011;

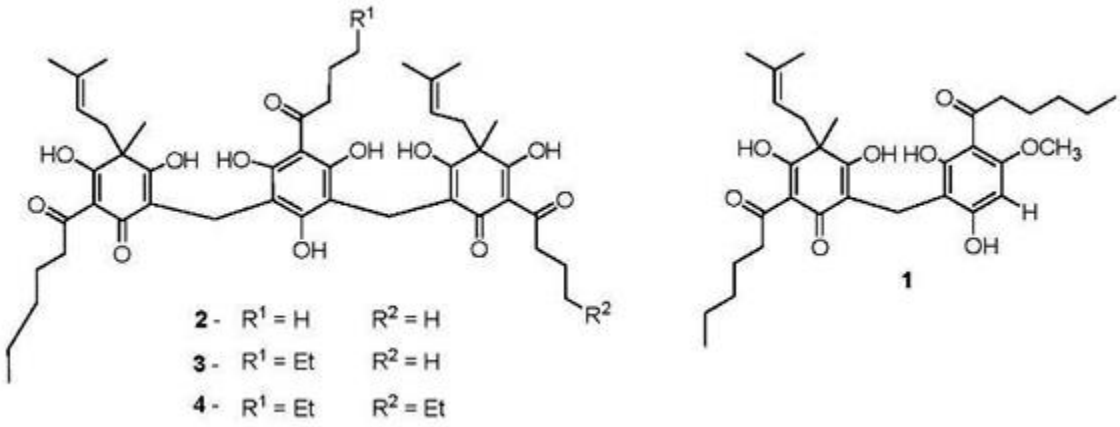
36. Supramolecular analytical chemistry: spectrofluorimetric determination of 6-hydroxymelatonin with hydroxypropyl-*β*-cyclodextrin (AG-6129SP)
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received Dec 1 2010; accepted Mar 22 2011; published May 31 2011;

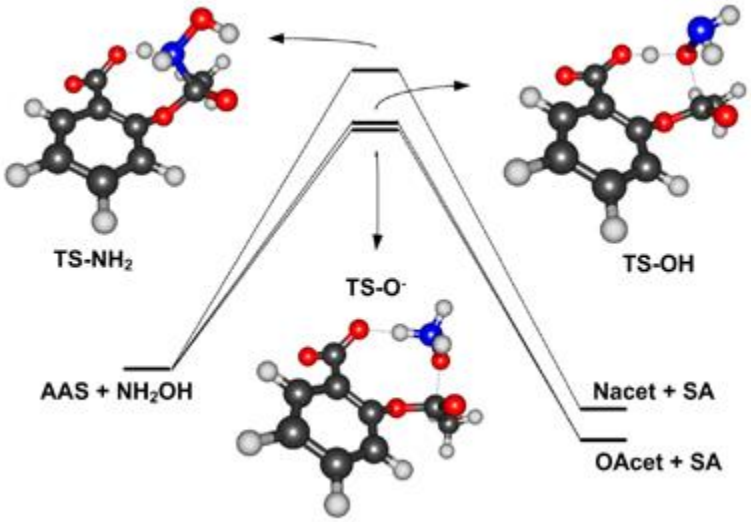
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received Nov 29 2010; accepted Mar 22 2011; published Jul 1 2011;

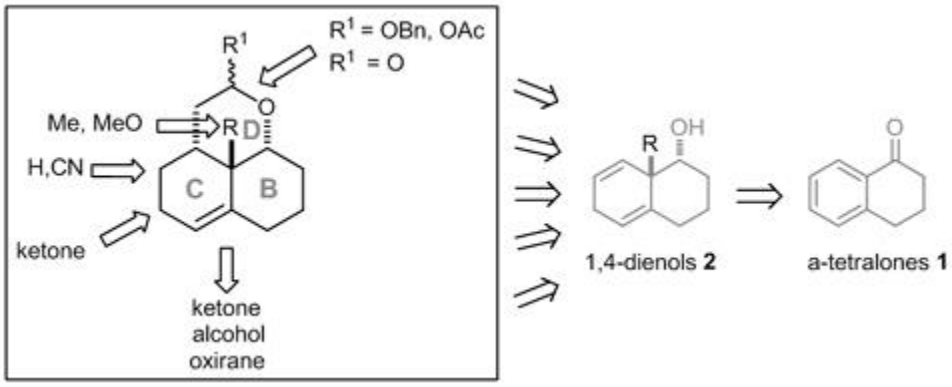
38. The reaction of hydroxylamine with aspirin (AG-6007SP)
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received Oct 28 2010; accepted May 19 2011; published Jul 18 2011;

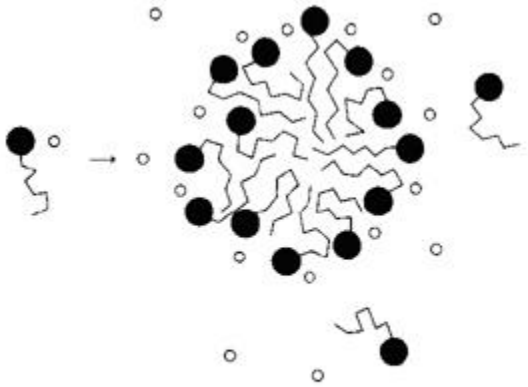
39. Simplified tricycle model of quassinoids with in *vitro* antiparasitic activity (AG-5658SP)
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received Jul 22 2010; accepted Nov 23 2010; published Jul 17 2011;

40. Micellar rate effects-assumptions and approximations (AG-6086SU)
Clifford A. Bunton

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The micelle binds substrate and reactive counter ion and accelerates their reaction

received Nov 22 2010; accepted Mar 3 2011; published Jul 24 2011;