

ARKIVOC Volume 2003

Part (x): Commemorative Issue in Honor of Prof. Edmundo A. Ruveda on the occasion of his 70th anniversary and Prof. Roberto A. Rossi on the occasion of his 60th anniversary

Facilitators: Adriana B. Pierini and Manuel Gonzalez-Sierra

Scientific Editor: Paul Krapcho

1. A Tribute to Prof. Edmundo A. R  veda (RR-477CT)

Manuel Gonz  lez Sierra

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accepted Jan 1 2003; published Jan 1 2003;

2. A Tribute to Prof. Roberto A. Rossi (RR-478CT)

A. B. Pierini

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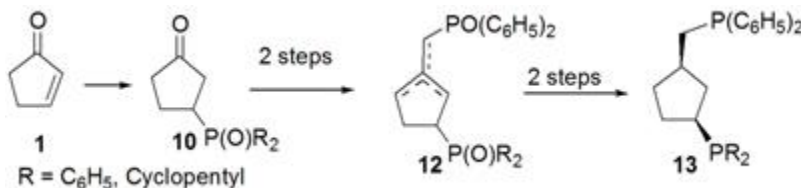
accepted Feb 20 2003; published Mar 18 2003;

3. Easy access to *cis*-1,3-disubstituted cyclopentane 1,4-diphosphines (RR-626CP)

Pelayo Camps, Gisela Colet and Santiago V  zquez

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received Dec 19 2002; accepted Mar 7 2003; published Mar 24 2003;

4. Tautomerism of lactones and related compounds. Mass spectrometric data and theoretical calculations (RR-648CP)

Patricia E. Allegretti, M. Susana Cortizo, Celia Guzm  n, Eduardo A. Castro and Jorge J. P. Furlong

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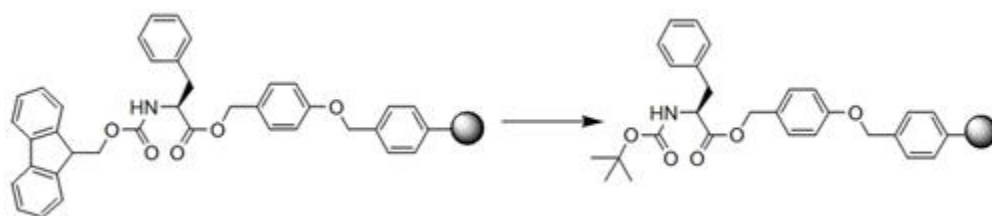
received Jan 12 2003; accepted Mar 6 2003; published Apr 11 2003;

5. Efficient and simple one-pot conversion of resin-bound *N*-Fmoc amino acids and dipeptides into *N*-Boc derivatives (RR-691CP)

Ricardo L. E. Furlan and Ernesto G. Mata

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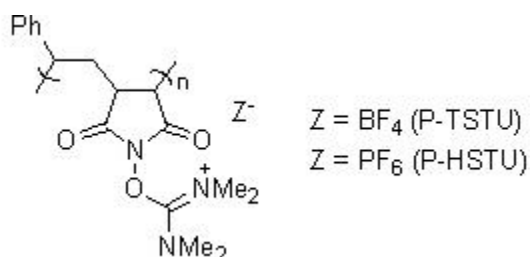
received Feb 15 2003; accepted Apr 10 2003; published Apr 25 2003;

6. Uronium salts from polymeric *N*-hydroxysuccinimide (P-HOSu) as new solid-supported peptide coupling reagents (RR-758CP)

Rafael Chinchilla, David J. Dodsworth, Carmen Nájera, José M. Soriano and Miguel Yus

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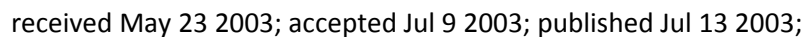


received May 9 2003; accepted Jun 26 2003; published Jul 13 2003;

7. Triplet state dynamics within cyclodextrin solid complexes (RR-767CP)

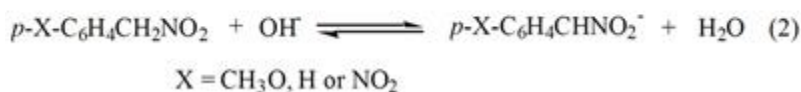
Mónica Barra, Christine DeVisser, Angela M. Swartz and Christiana Zaharia

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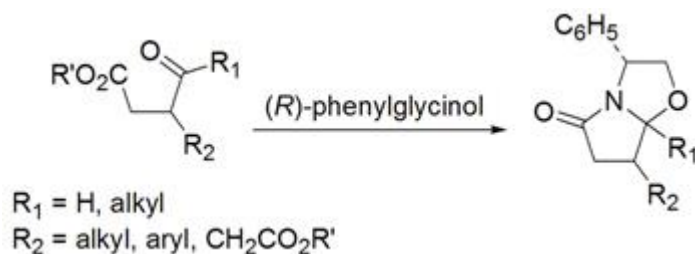
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Mercedes Amat, Viviana Ponzo, Nàïria Llor, Oriol Bassas, Carmen Escolano and Joan Bosch

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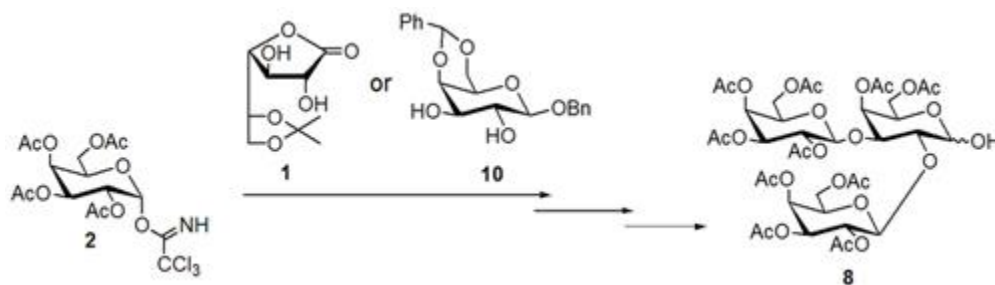
received Jun 6 2003; accepted Jul 22 2003; published Jul 25 2003;

10. Synthesis of 2,3-di-O-(β -D-Galp)-D-Galp, a synthon for the mucin oligosaccharides of *Trypanosoma cruzi* (RR-803CP)

Verónica M. Mendoza, Carola Gallo-Rodriguez and Rosa M. de Lederkremer

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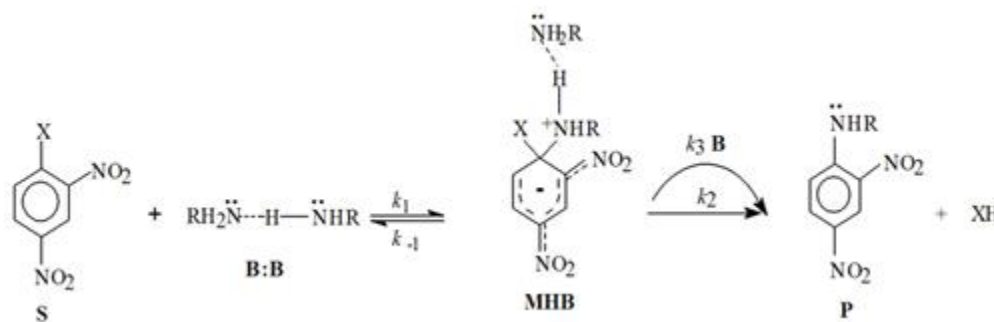
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11. Unusual solvent effects in the reactions of 1-halo-2,4-dinitrobenzenes and aniline in aprotic and dipolar-aprotic solvents. Effects of aggregates (RR-812CP)

Cecilia E. Silvana Alvaro and Norma Sbarbati Nudelman

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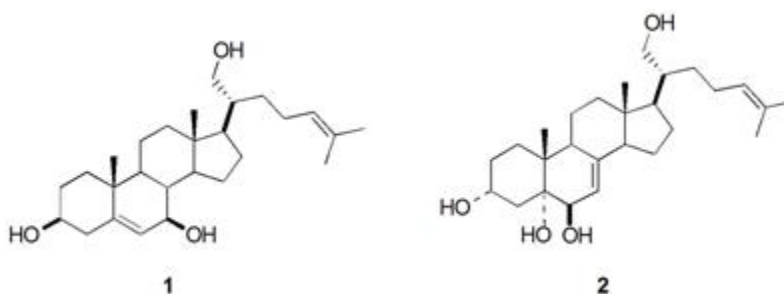
received Jun 23 2003; accepted Aug 5 2003; published Aug 7 2003;

12. New polyhydroxylated steroids from the marine pulmonate *Trimusculus peruvianus* (RR-815CP)

Ana R. D  az-Marrero, Enrique Dorta, Mercedes Cueto, Juana Roviroso, Aurelio San-Mart  n, Alberto Loyola and Jos   Dar  as

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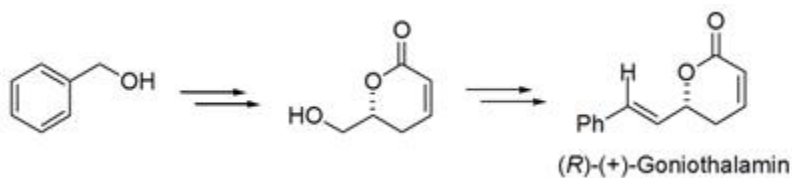
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13. Enantioselective approach to the asymmetric synthesis of (6*R*)-hydroxymethyl-5,6-dihydro-2*H*-pyran-2-one. A formal synthesis of (*R*)-argentilactone and total synthesis of (*R*)-goniothalamine (RR-820CP)

Ângelo de Fátima and Ronaldo A. Pilli

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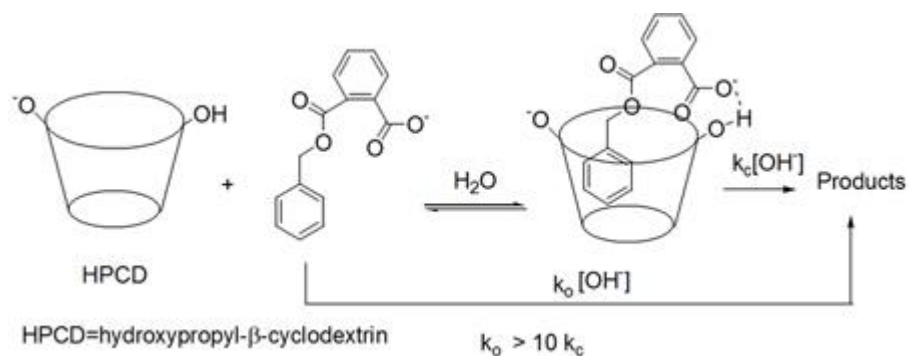
received Jun 30 2003; accepted Aug 14 2003; published Aug 19 2003;

14. Mechanism of phthalate ester hydrolysis in water and in cyclodextrin mediated reactions (RR-821CP)

Gabriel O. Andr s and Rita H. de Rossi

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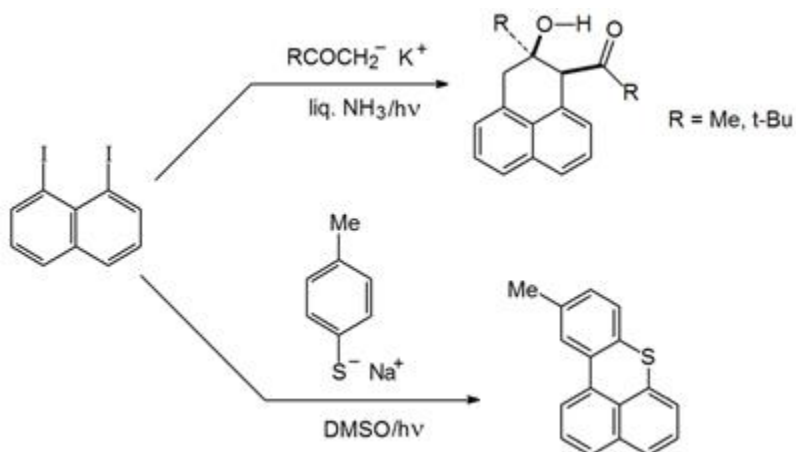
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15. The $S_{RN}1$ reactions of 1,8-diiodonaphthalene (RR-819CP)

Robert K. Norris and James A. McMahon

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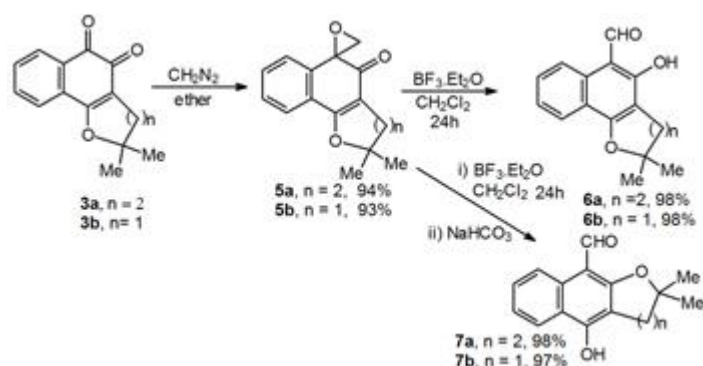
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16. Synthesis of new aldehyde derivatives from β -lapachone and nor- β -lapachone (RR-809CP)

Milton N. da Silva, Maria C. B. V. da Souza, Vitor F. Ferreira, Antonio V. Pinto, Maria do Carmo R. F. Pinto, Solange M. S. V. Wardell and James L. Wardell

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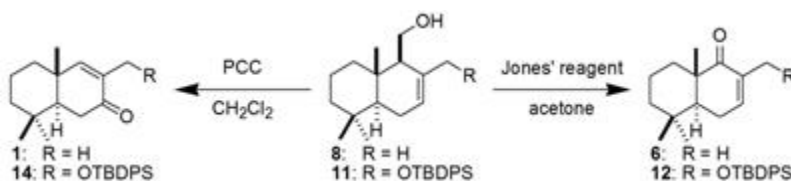
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17. Regioselective oxidative fragmentation of drimanic terpene alcohols: a short, easy and efficient access to natural and synthetic 11-nordrimane terpene derivatives (RR-826CP)

Mauricio A. Cuellar, Luis E. Moreno and Marcelo D. Preite

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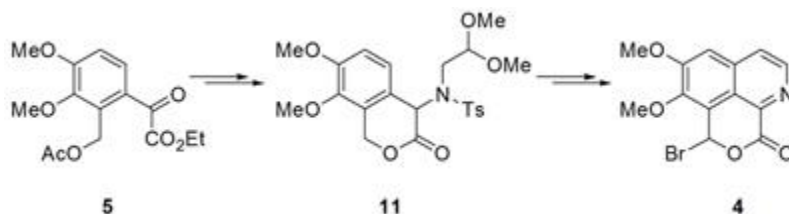
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18. Synthesis of a tricyclic lactone embodying the ABC-ring system of stephaoxocanidine, by tin(IV) chloride-assisted sulfonamidoacetal cyclization and an aromatization promoted by triethylamine (RR-818CP)

DarÃo A. Bianchi and Teodoro S. Kaufman

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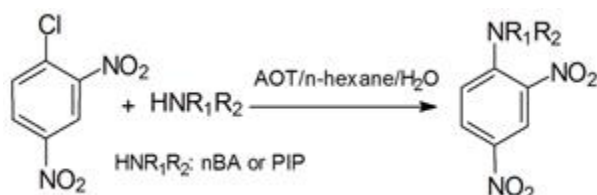
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19. Kinetics and mechanism for the reaction of 1-chloro-2,4-dinitrobenzene with *n*-butylamine and piperidine in AOT/*n*-hexane/water reverse micelles (RR-824CP)

Lilian Zingaretti, Liliana Boscatto, Stella M. Chiacchiera and Juana J. Silber

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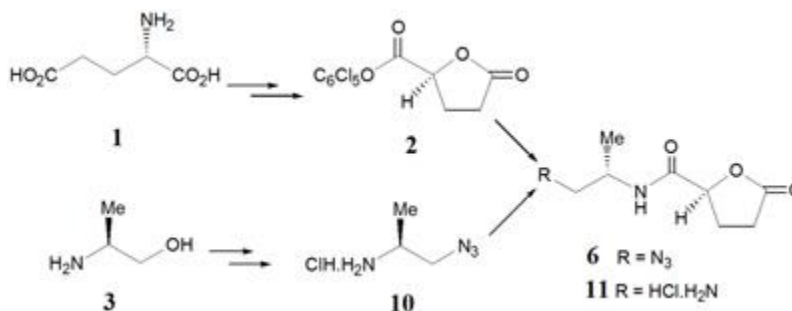
received Jul 8 2003; accepted Sep 2 2003; published Sep 5 2003;

20. L-Glutamic acid and L-alanine derivatives as building blocks for the synthesis of a chiral monomer precursor of AAB_B-type polyamide (RR-828CP)

Romina V. GÃmez, HernÃn A. Orgueira and Oscar Varela

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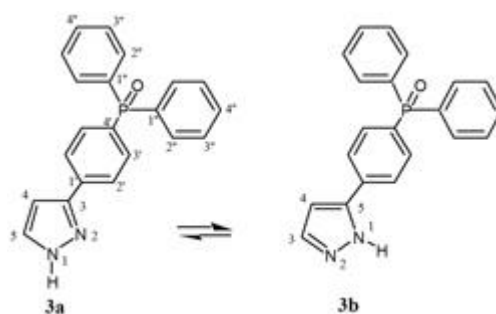
received Jul 10 2003; accepted Sep 2 2003; published Sep 5 2003;

21. Structure of 3(5)-[(4-diphenylphosphinoyl)phenyl]pyrazole in the solid state (X-ray and CPMAS NMR) and in solution (NMR): Tautomerism and hydrogen bonds (RR-817CP)

Rosa M. Claramunt, ConcepciÃn LÃpez, JosÃ Elguero, Arnold L. Rheingold, Lev N. Zakharov and Swiatoslaw Trofimenko

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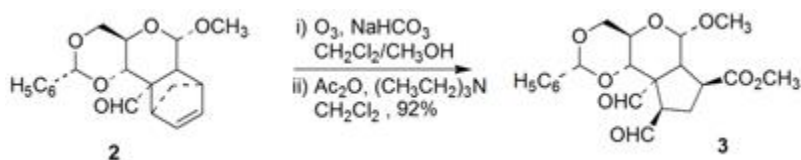
received Jun 30 2003; accepted Sep 3 2003; published Sep 9 2003;

22. The first example of a highly non-symmetric ozonolysis of a sugar derived norbornene system (RR-854CP)

Sebasti n A. Testero, Rolando A. Spanevello and Rakesh Kohli

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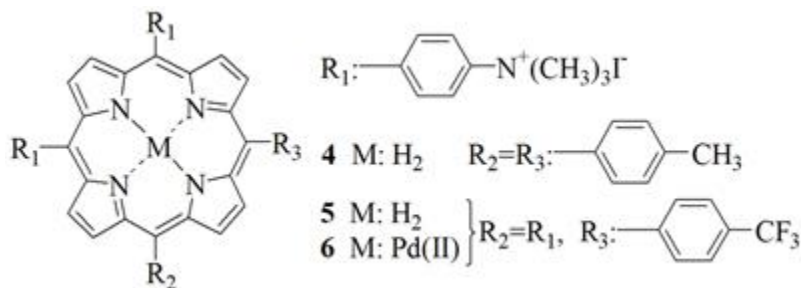
received Jul 31 2003; accepted Sep 9 2003; published Sep 24 2003;

23. Synthesis of *meso*-substituted cationic porphyrins as potential photodynamic agents (RR-852CP)

D bora Lazzeri and Edgardo N. Durantini

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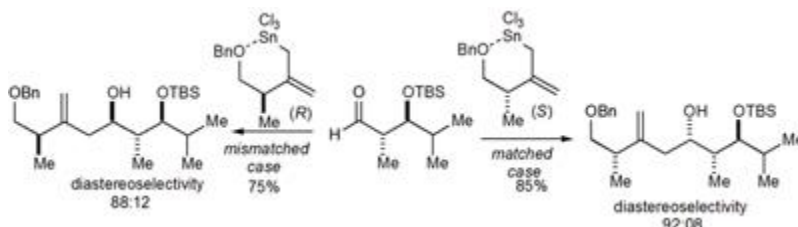
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24. High 1,4-*syn*-induction in the addition of chiral allyltrichlorostannanes to chiral aldehydes (RR-863CP)

Luiz C. Dias, Rosana Giacomini, Paulo R. R. Meira, Edilson Ferreira, Andr a A. Ferreira, Gaspar Diaz, D bora R. dos Santos and Leonardo J. Steil

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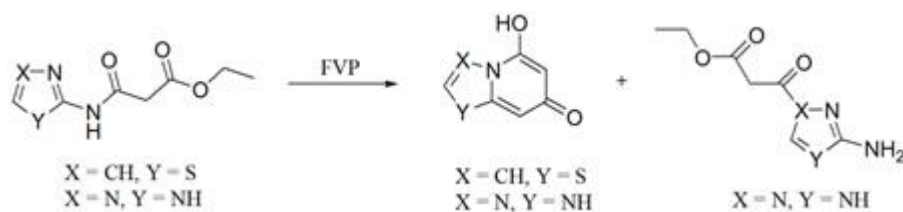
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25. Flash vacuum pyrolysis of azolyl-malonamates. Synthesis of 5-hydroxy-azolopyrimidin-7-ones (RR-822CP)

Walter J. Pe  ez, Ioulia T. Gafarova and Gloria I. Yranzo

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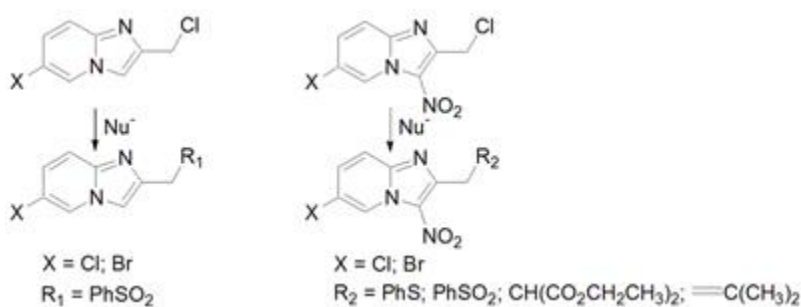
received Jul 9 2003; accepted Sep 9 2003; published Sep 24 2003;

26. Synthesis of new 6-halogeno-imidazo[1,2-*a*]pyridines by S_{RN}1 reactions (RR-833CP)

Maxime D. Crozet, Caroline Castera, Mustapha Kaafarani, Michel P. Crozet and Patrice Vanelle

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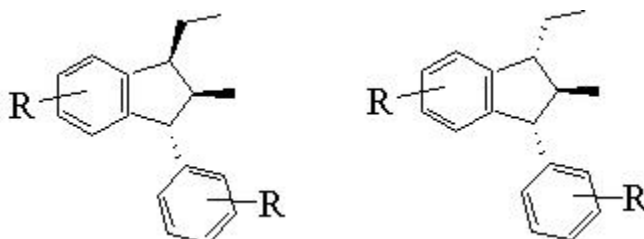
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27. Synthesis of 1-ethyl-2-methyl-3-arylindanes. Stereochemistry of five-membered ring formation (RR-829CP)

Elba Alesso, Rosario Torviso, Beatriz Lantaño, Magali Erlich, Liliana M. Finkielstein, Graciela Moltrasio, Jos   M. Aguirre and Ernesto Brunet

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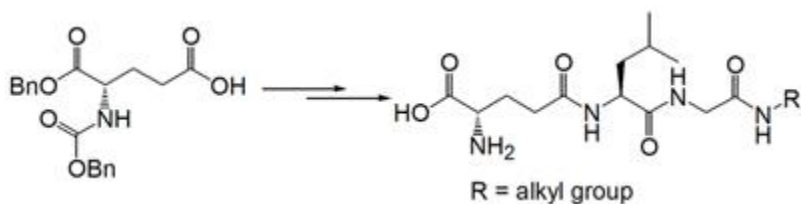
received Jul 14 2003; accepted Sep 23 2003; published Sep 29 2003;

28. Synthesis and biological evaluation of glutathione-like tripeptides against *Trypanosoma cruzi* (RR-866CP)

Esteban L. Ravaschino, Roberto Docampo and Juan B. Rodriguez

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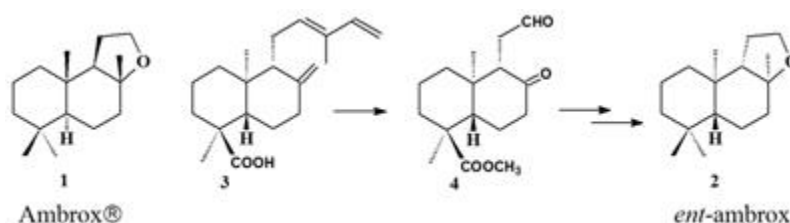
received Aug 14 2003; accepted Sep 23 2003; published Sep 29 2003;

29. Synthesis of ambergris odorant *ent*-ambrox (RR-838CP)

Rosana A. Giacomini, Paulo C. M. de L. Miranda, LÃ©cia H. B. Baptistella and Paulo M. Imamura

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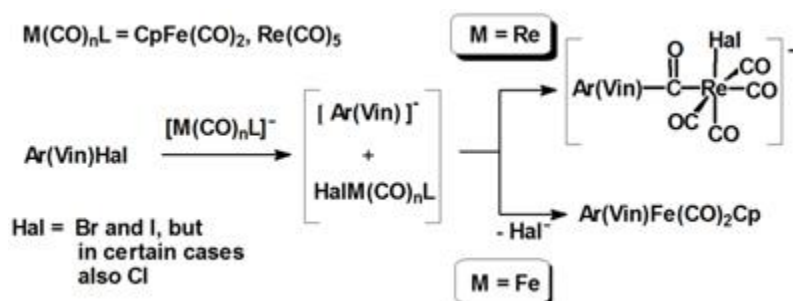
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30. Metal carbonyl anions as model metal-centered nucleophiles in aromatic and vinylic substitution reactions (RR-839CP)

Petr K. Sazonov, Vasyli A. Ivushkin, Galina A. Artamkina and Irina P. Beletskaya

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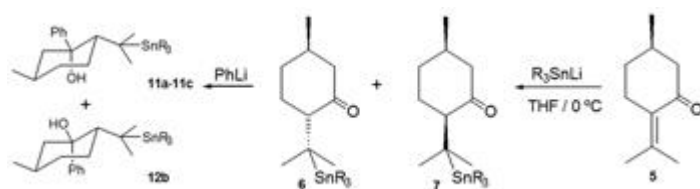
received Jul 21 2003; accepted Sep 27 2003; published Oct 2 2003;

31. Stereoselective addition of organotin anions to R-(+)-pulegone: a route to 8-triorganostannylmenthols (RR-885CP)

Verónica I. Dodero, Nelda N. Giagante, Sandra D. Mandolesi, Adriana E. Zúñiga and Julio C. Podestà

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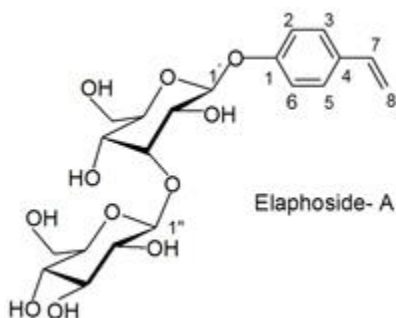
received Aug 29 2003; accepted Sep 27 2003; published Oct 2 2003;

32. Bioactive new bitter-tasting *p*-hydroxystyrene glycoside and other constituents from the fern *Elaphoglossum spathulatum* (RR-888CP)

Cecilia Socolsky, Anal a Salvatore, Yoshinori Asakawa and Alicia Bard n

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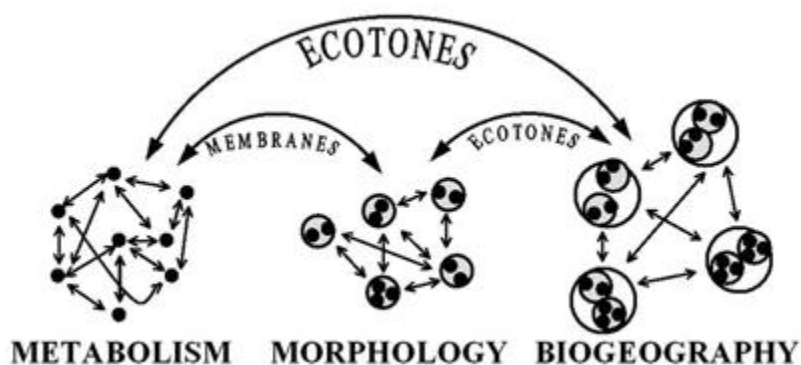
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33. Quantitative chemo-biology: A chemical paradigm to understand biological phenomena (RR-864CP)

Otto R. Gottlieb and Maria Renata de M. B. Borin

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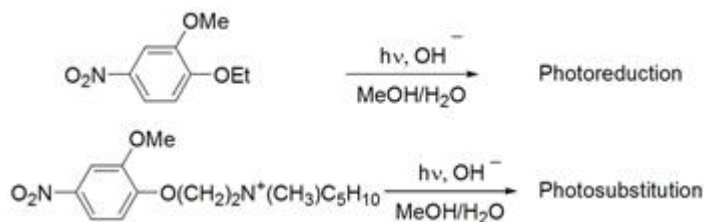
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34. Electrostatic effects on the photoreactions of nitrophenyl ethers with nucleophiles (RR-874CP)

Jordi Marquet and Chiara Tomasi

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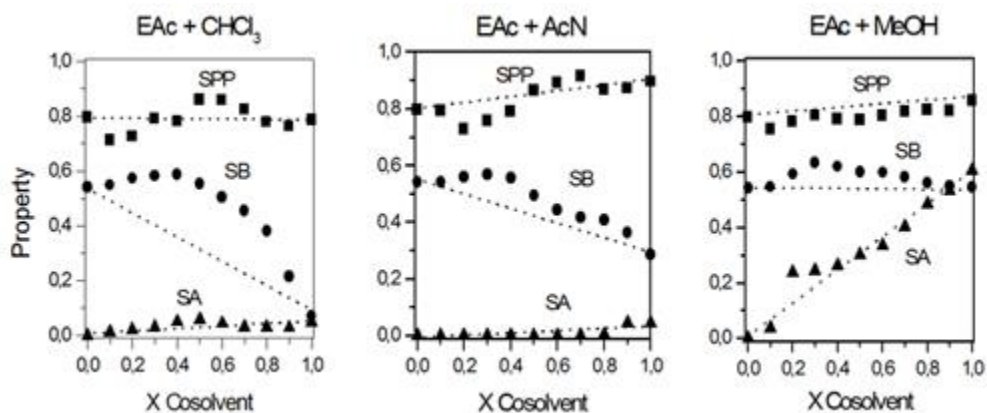
received Aug 21 2003; accepted Sep 30 2003; published Oct 4 2003;

35. Binary solvent mixtures: characterization of molecular environments through multiparametric empirical scales. Concerns about relationships between kinetic data and microscopic solvent properties (RR-831CP)

Pedro M. Mancini, Alexis Bock, Claudia Adam, Adriana del C. PÃ©rez and Leonor R. Vottero

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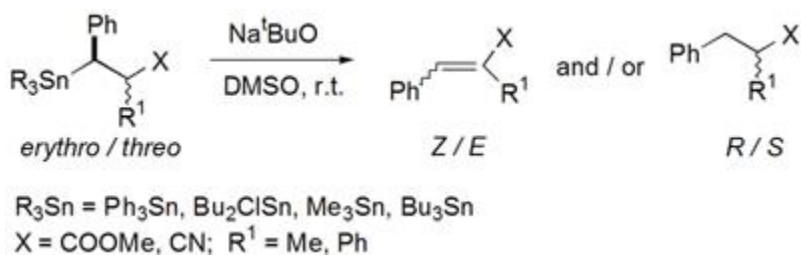
received Jul 17 2003; accepted Oct 8 2003; published Oct 10 2003;

36. Elimination vs. substitution in the reaction of 3-stannyl esters and 3-stannyl nitriles with sodium *tert*-butoxide in DMSO (RR-887CP)

Alicia B. Chopa, Gustavo F. Silbestri, Mercedes A. Badajoz and Ana P. Murray

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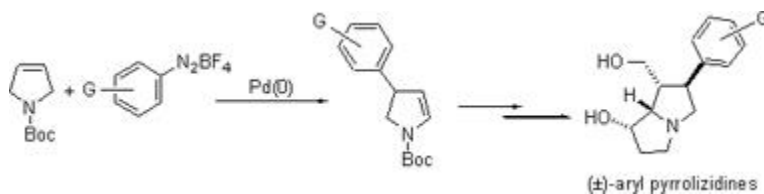
received Aug 29 2003; accepted Oct 8 2003; published Oct 10 2003;

37. Synthesis of aryl pyrrolizidines from endocyclic enecarbamates. Novel applications of the Heck arylation of 3-pyrrolines using diazonium salts (RR-889CP)

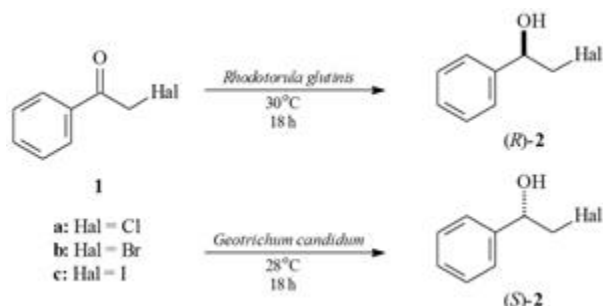
Antonio C. B. Montes de Oca and Carlos Roque D. Correia

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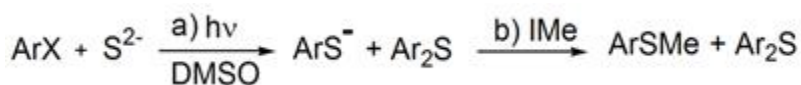
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38. Bioreduction of α -haloacetophenones by *Rhodotorula glutinis* and *Geotrichum candidum* (RR-896CP)

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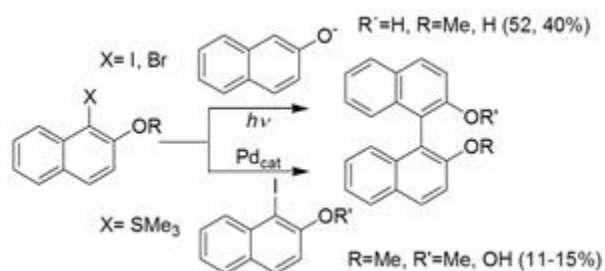
39. Reactivity of sulfur centered nucleophiles in photoinduced reactions with 1-bromonaphthalene (RR-907CP)

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40. Steric effects in the synthesis of ortho-substituted 1,1'-binaphthalene derivatives by the $S_{RN}1$ and the Stille reaction (RR-923CP)

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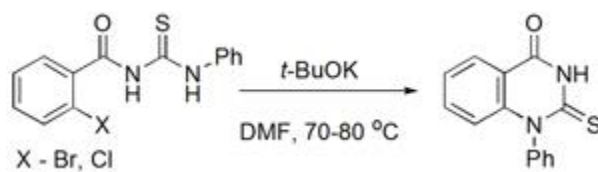
received Sep 17 2003; accepted Oct 12 2003; published Oct 16 2003;

41. Synthesis of 1*H*-quinazoline-4-ones using intramolecular aromatic nucleophilic substitution (RR-881CP)

W. Russell Bowman, Harry Heaney and Philip H. G. Smith

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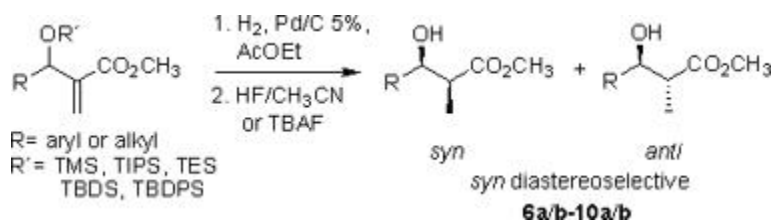
received Aug 29 2003; accepted Oct 14 2003; published Oct 16 2003;

42. The influence of protecting groups on the diastereoselectivity of catalytic heterogeneous hydrogenation of Baylis-Hillman adducts (RR-890CP)

Fernando Coelho, Wanda, P. Almeida, Cristiano R. Mateus, Leonardo D. Furtado and JosÃ© Carlos F. Gouveia

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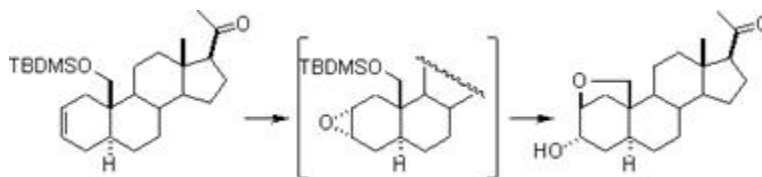
received Aug 30 2003; accepted Oct 15 2003; published Oct 22 2003;

43. Oxido-bridged neurosteroid analogues. Synthesis of 2,19-oxido-*allopregnanolone* (RR-895CP)

Silvina L. Eduardo, Alberto A. Ghini and Gerardo Burton

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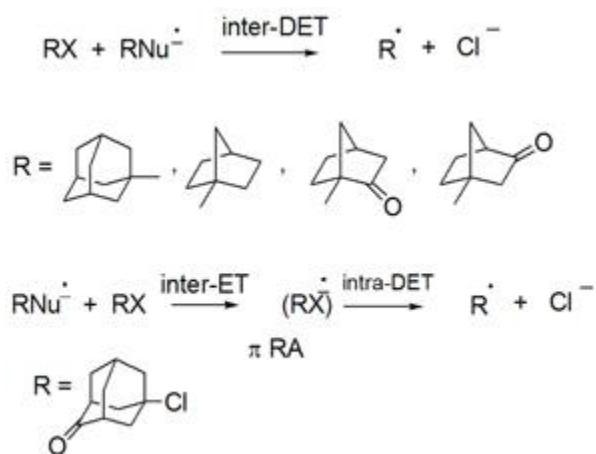
received Aug 28 2003; accepted Oct 15 2003; published Oct 22 2003;

44. Electron transfer reactions to 1-adamantyl-, 1-norbornyl chlorides, and their oxo derivatives. A theoretical study (RR-914CP)

Adriana B. Pierini, Ana N. Santiago, Simón G. Allende and D. Mariano A. Vera

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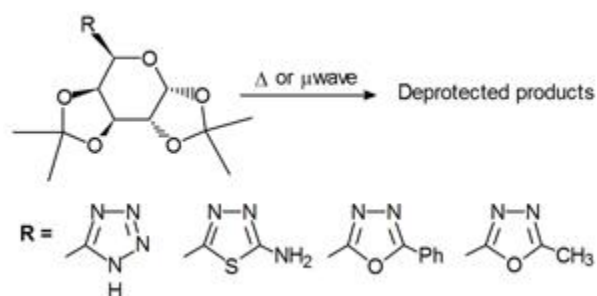
received Sep 10 2003; accepted Oct 21 2003; published Oct 30 2003;

45. Deprotection of di-*O*-isopropylidene isocarbonucleosides (RR-842CP)

María F. Martínez Esperanza, María I. Errea, Miriam A. Martins Alho and Norma B. D'Accorso

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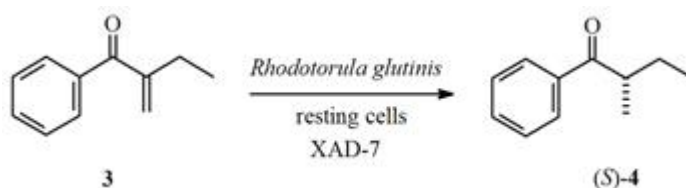
received Jul 24 2003; accepted Oct 22 2003; published Oct 30 2003;

46. Regio- and enantioselective reduction of a α -methyleneketone by *Rhodotorula glutinis* (RR-946CP)

Gelson J. Andrade Conceição, Paulo J. S. Moran and J. Augusto R. Rodrigues

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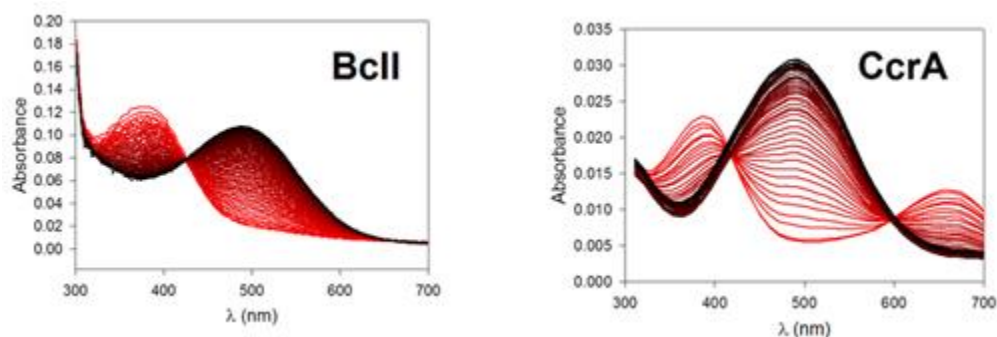
received Oct 12 2003; accepted Oct 24 2003; published Oct 30 2003;

47. Mechanistic study of the hydrolysis of nitrocefin mediated by *B.cereus* metallo- β -lactamase (RR-848CP)

Rodolfo M. Rasia and Alejandro J. Vila

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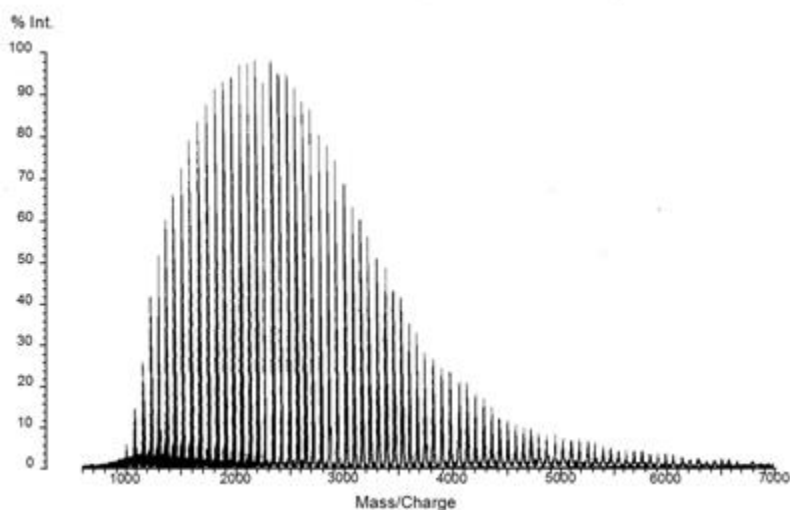
received Jul 28 2003; accepted Oct 22 2003; published Nov 30 2003;

48. UV-Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis of synthetic polymers by using nor-harmane as matrix (RR-869CP)

Rosa Erra-Balsells and Hiroshi Nonami

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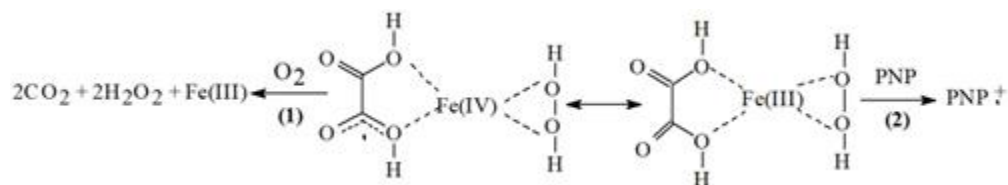
received Aug 19 2003; accepted Nov 11 2003; published Nov 30 2003;

49. On the Fenton degradation mechanism. The role of oxalic acid (RR-871CP)

Yamila Alegría, Fernando Liendo and Oswaldo Nájera

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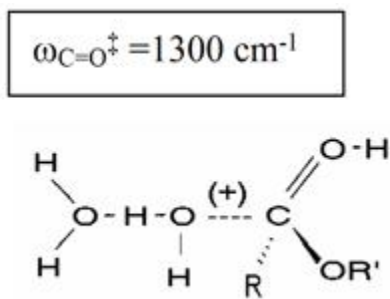
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50. The transition-state acidity and carbonyl stretching frequency in ester hydrolysis. A substituent-effect approach (RR-879CP)

Julio F. Mata-Segreda

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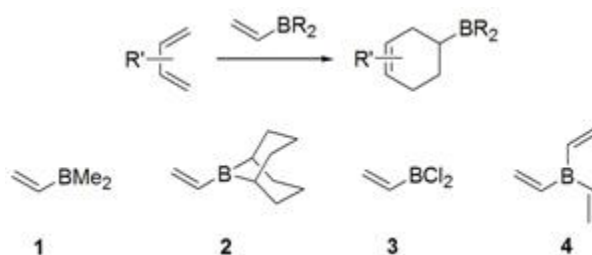
received Aug 27 2003; accepted Nov 12 2003; published Dec 4 2003;

51. Diels-Alder reactions of vinylboranes: A computational study on the boron substituent effects (RR-903CP)

MarÃa A. Silva, Silvina C. Pellegrinet and Jonathan M. Goodman

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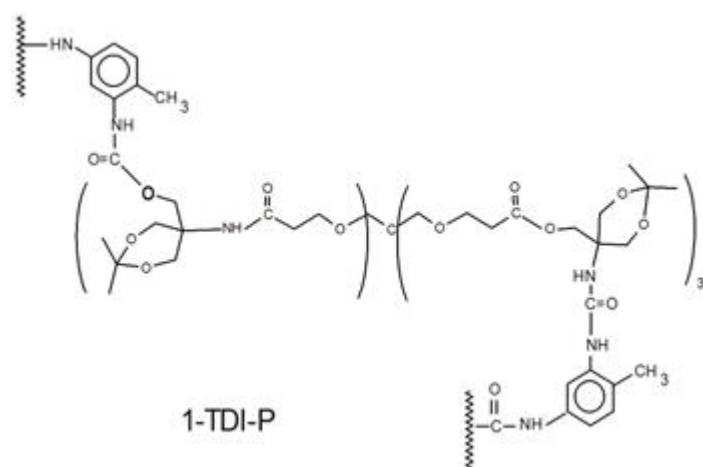
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52. Condensation reactions of a first generation of dendritic monomer (RR-909CP)

Alejandra Halabi, Pablo Froimowicz, Marisa Martinelli, Miriam C. Strumia and BernabÃ© L. Rivas

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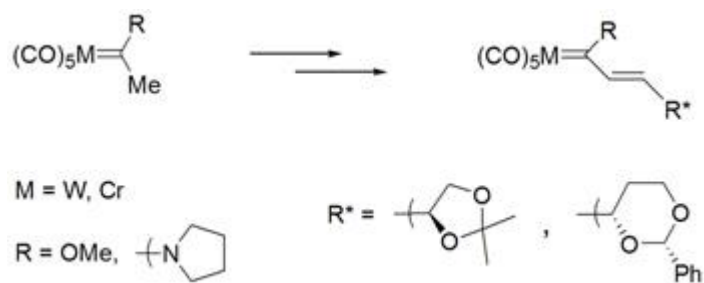
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53. Synthesis of new chiral alkenyl Fischer carbene complexes (RR-944CP)

José Barluenga, Narendra Panday, Javier Santamaría, Ana de Prado and Miguel Tomás

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