

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^uveda (RR-477CT)

Manuel Gonz^alez 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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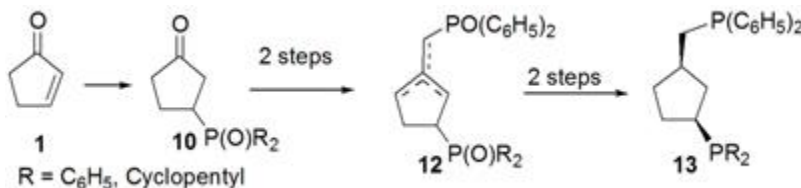
accepted Feb 20 2003; published Mar 18 2003;

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

Pelayo Camps, Gisela Colet and Santiago V^azquez

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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^an, Eduardo A. Castro and Jorge J. P. Furlong

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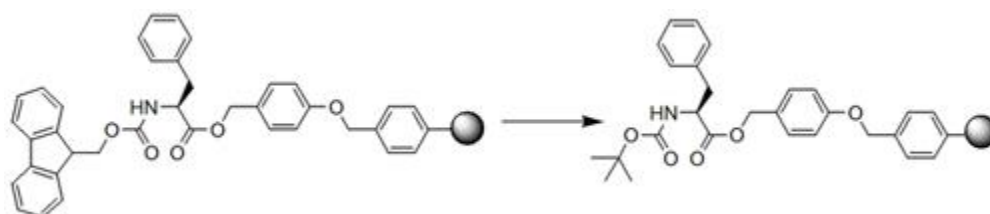
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5. Efficient and simple one-pot conversion of resin-bound *N*-Fmoc amino acids and dipeptides into *N*-Boc derivatives (RR-691CP)

Ricardo L. E. Furlán and Ernesto G. Mata

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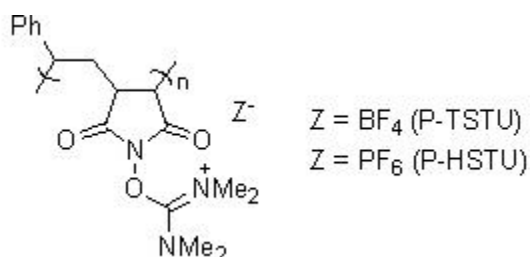
received Feb 15 2003; accepted Apr 10 2003; published Apr 25 2003;

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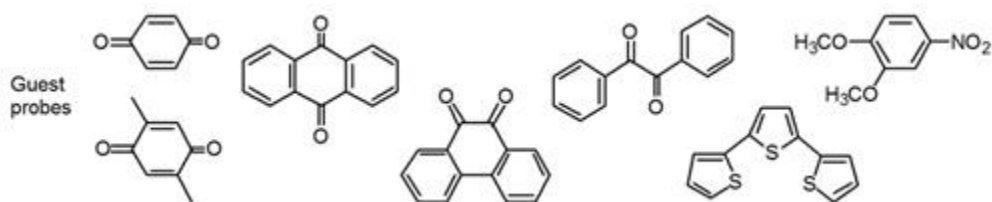
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7. Triplet state dynamics within cyclodextrin solid complexes (RR-767CP)

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

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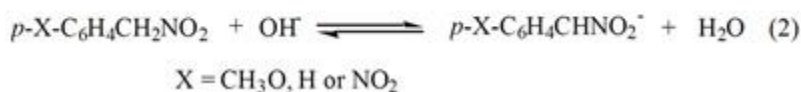
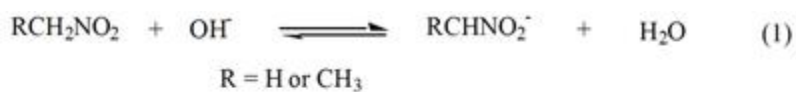
received May 23 2003; accepted Jul 9 2003; published Jul 13 2003;

8. Nitroalkane anomaly: computational study with cluster and continuum modeling (RR-792CP)

Hiroshi Yamataka and Salai Cheettu Ammal

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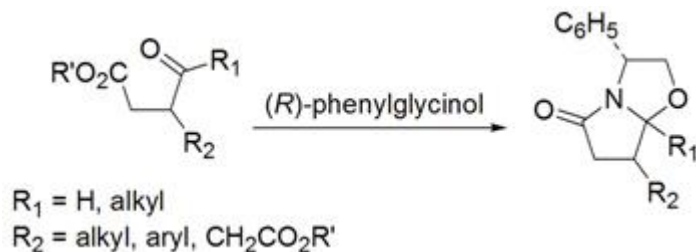
received Jun 3 2003; accepted Jul 18 2003; published Jul 23 2003;

9. Cyclocondensation reactions of racemic and prochiral γ -oxo-acid derivatives with (*R*)-phenylglycinol (RR-801CP)

Mercedes Amat, Viviana Ponzo, N^oria Llor, Oriol Bassas, Carmen Escolano and Joan Bosch

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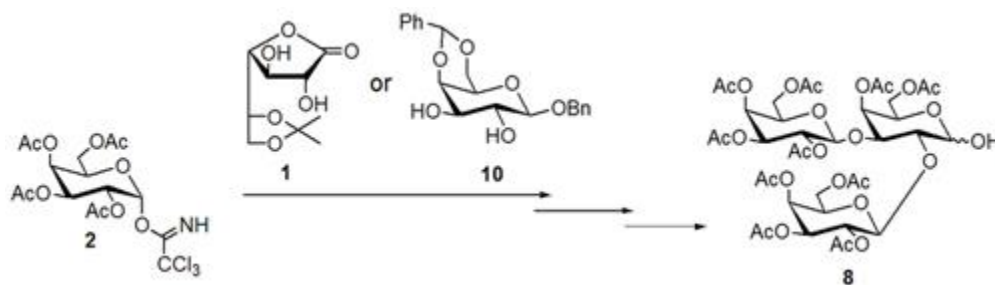
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10. Synthesis of 2,3-di-O-(β-D-Galp)-D-Galp, a synthon for the mucin oligosaccharides of *Trypanosoma cruzi* (RR-803CP)

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

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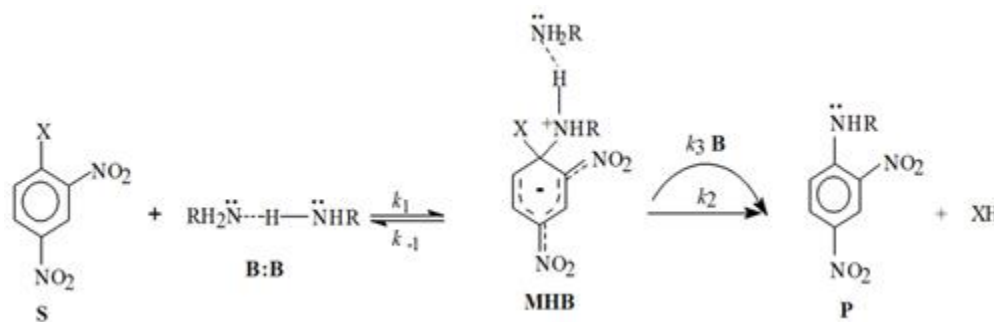
received Jun 10 2003; accepted Jul 22 2003; published Jul 25 2003;

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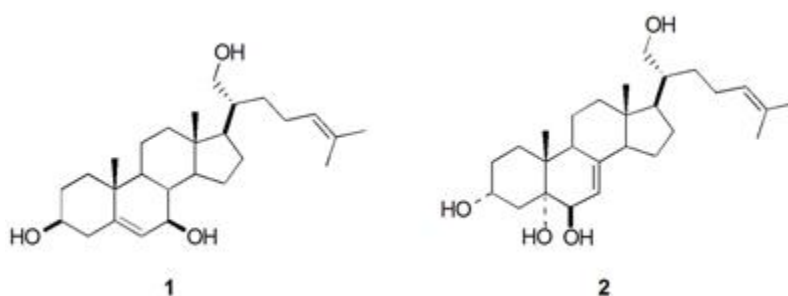
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12. New polyhydroxylated steroids from the marine pulmonate *Trimusculus peruvianus* (RR-815CP)

Ana R. D'Áz-Marrero, Enrique Dorta, Mercedes Cueto, Juana Rovirosa, Aurelio San-Martín, Alberto Loyola and Josée Darias

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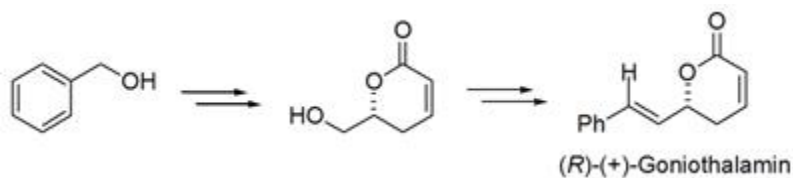
received Jun 27 2003; accepted Aug 12 2003; published Aug 15 2003;

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 FÃjtima and Ronaldo A. Pilli

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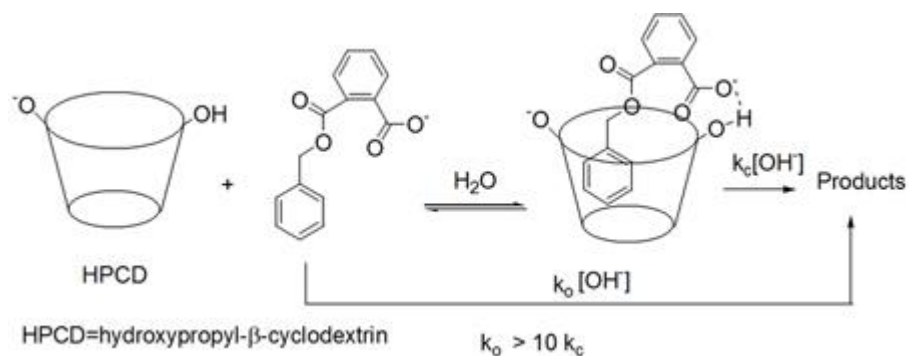
received Jun 30 2003; accepted Aug 14 2003; published Aug 19 2003;

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

Gabriel O. AndrÃs and Rita H. de Rossi

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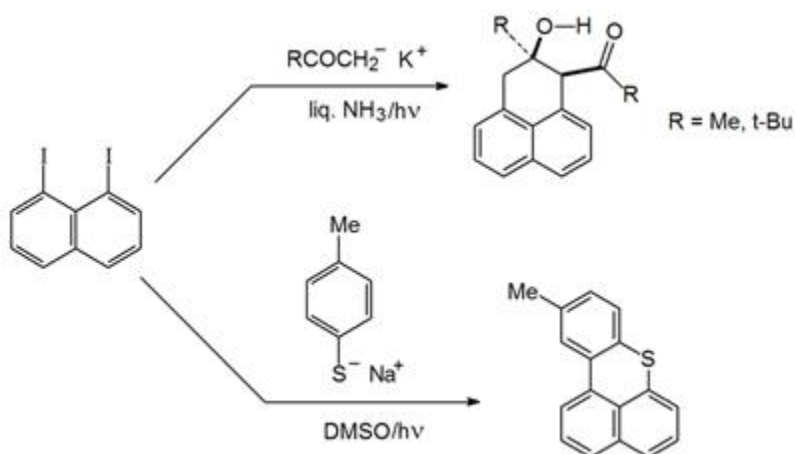
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15. The $S_{RN}1$ reactions of 1,8-diiodonaphthalene (RR-819CP)

Robert K. Norris and James A. McMahon

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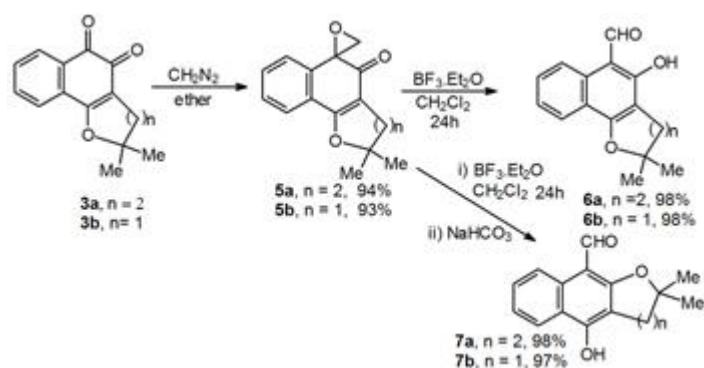
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16. Synthesis of new aldehyde derivatives from β -lapachone and nor- β -lapachone (RR-809CP)

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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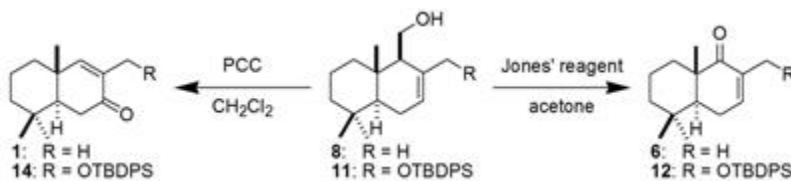
received Jun 18 2003; accepted Aug 21 2003; published Aug 22 2003;

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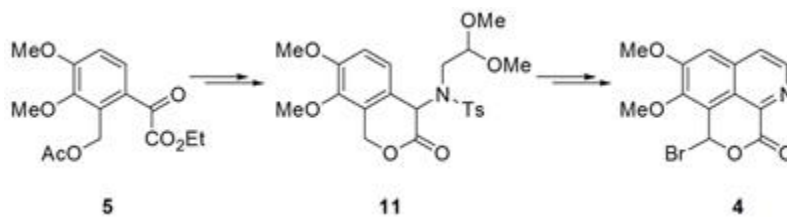
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18. Synthesis of a tricyclic lactone embodying the ABC-ring system of stephaoxocanidine, by tin(IV) chloride-assisted sulfonamidoacetal cyclization and an aromatization promoted by triethylamine (RR-818CP)

DarÃo A. Bianchi and Teodoro S. Kaufman

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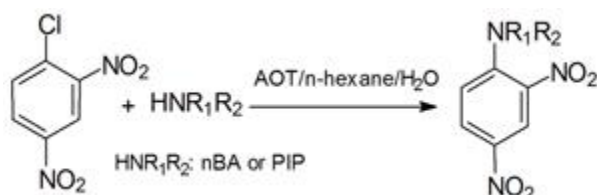
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19. Kinetics and mechanism for the reaction of 1-chloro-2,4-dinitrobenzene with *n*-butylamine and piperidine in AOT/*n*-hexane/water reverse micelles (RR-824CP)

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

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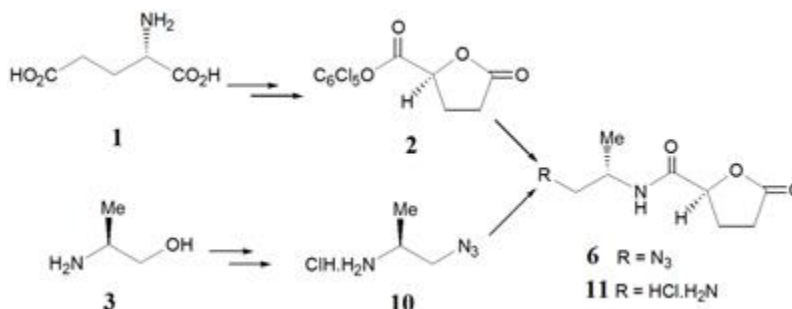
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20. L-Glutamic acid and L-alanine derivatives as building blocks for the synthesis of a chiral monomer precursor of AAB-type polyamide (RR-828CP)

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

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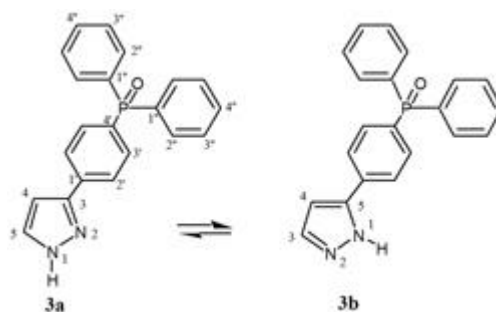
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21. Structure of 3(5)-[(4-diphenylphosphinoyl)phenyl]pyrazole in the solid state (X-ray and CPMAS NMR) and in solution (NMR): Tautomerism and hydrogen bonds (RR-817CP)

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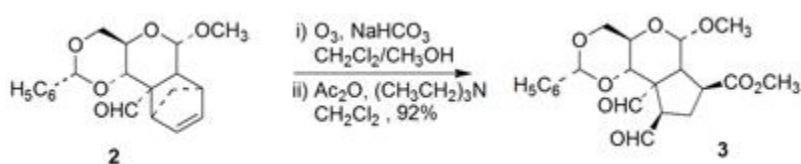
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22. The first example of a highly non-symmetric ozonolysis of a sugar derived norbornene system (RR-854CP)

Sebastián A. Testero, Rolando A. Spanevello and Rakesh Kohli

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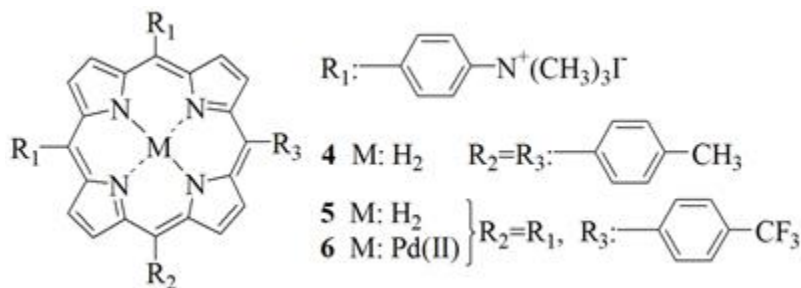
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23. Synthesis of *meso*-substituted cationic porphyrins as potential photodynamic agents (RR-852CP)

D'Albora Lazzeri and Edgardo N. Durantini

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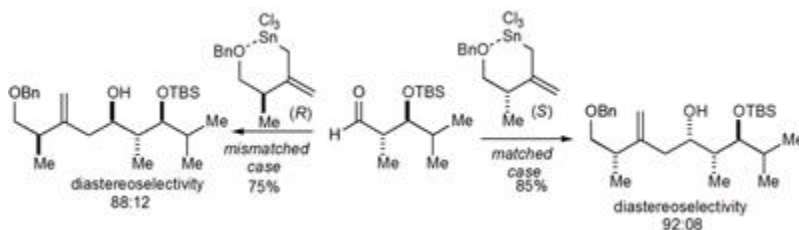
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24. High 1,4-*syn*-induction in the addition of chiral allyltrichlorostannanes to chiral aldehydes (RR-863CP)

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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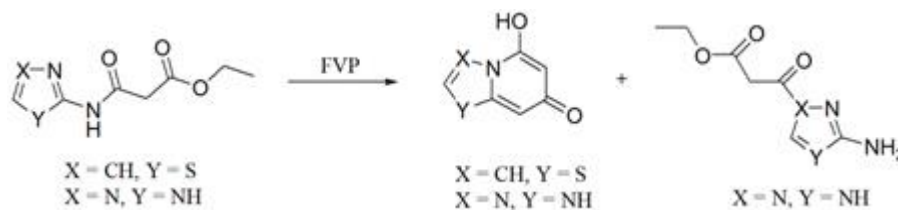
received Aug 9 2003; accepted Sep 18 2003; published Sep 24 2003;

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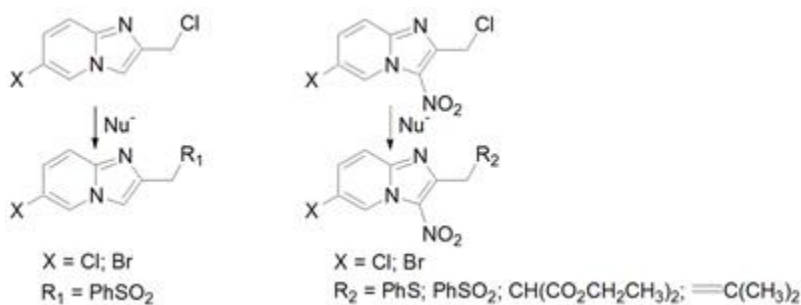
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26. Synthesis of new 6-halogeno-imidazo[1,2-*a*]pyridines by $S_{RN}1$ reactions (RR-833CP)

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

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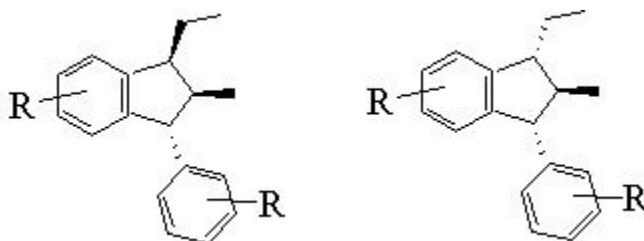
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27. Synthesis of 1-ethyl-2-methyl-3-arylidanes. Stereochemistry of five-membered ring formation (RR-829CP)

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

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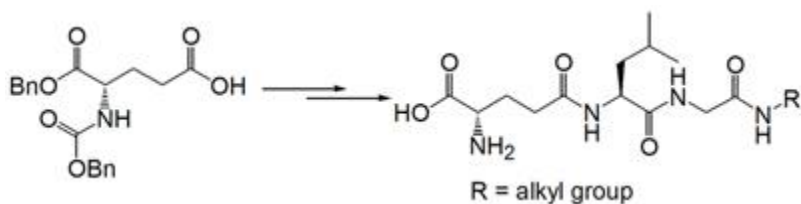
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28. Synthesis and biological evaluation of glutathione-like tripeptides against *Trypanosoma cruzi* (RR-866CP)

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

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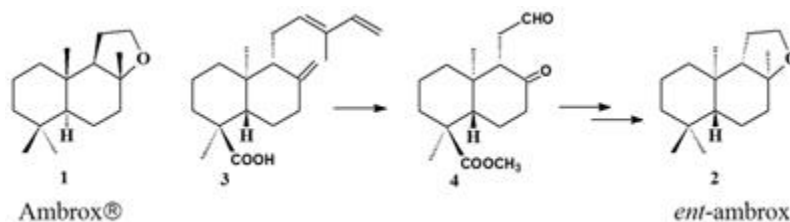
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29. Synthesis of ambergris odorant *ent*-ambrox (RR-838CP)

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

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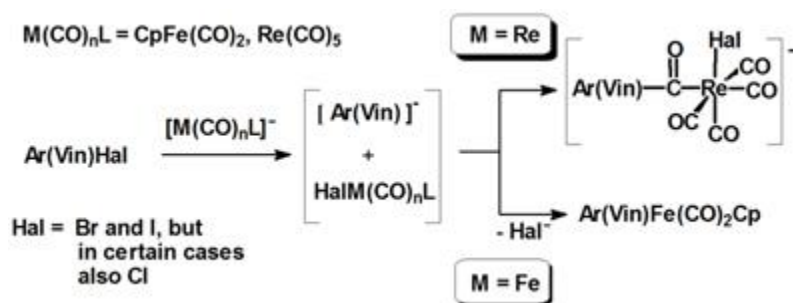
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30. Metal carbonyl anions as model metal-centered nucleophiles in aromatic and vinylic substitution reactions (RR-839CP)

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

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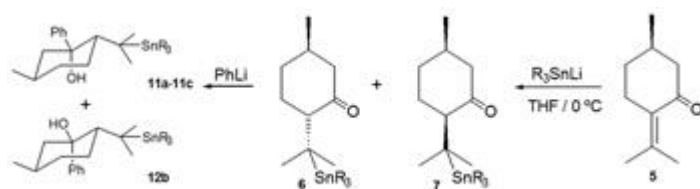
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31. Stereoselective addition of organotin anions to R-(+)-pulegone: a route to 8-triorganostannylmenthols (RR-885CP)

Ver  nica I. Doderio, Nelda N. Giagante, Sandra D. Mandolesi, Adriana E. Z  l  iga and Julio C. Podest  i

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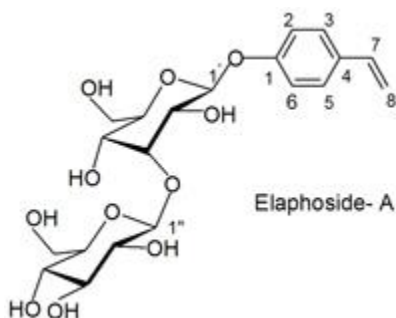
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32. Bioactive new bitter-tasting *p*-hydroxystyrene glycoside and other constituents from the fern *Elaphoglossum spathulatum* (RR-888CP)

Cecilia Socolsky, AnalÁa Salvatore, Yoshinori Asakawa and Alicia BardÃ³n

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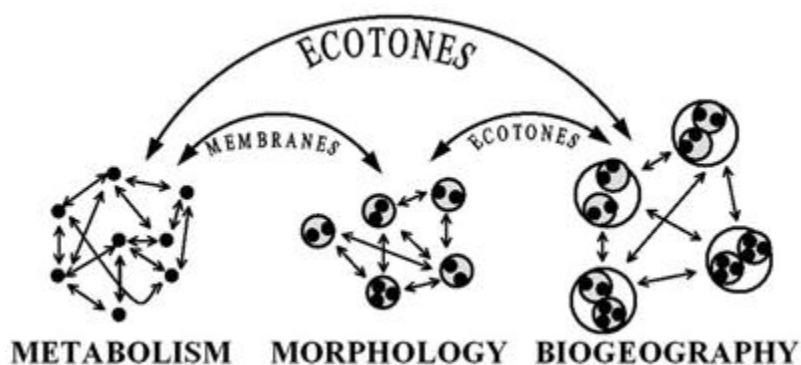
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33. Quantitative chemo-biology: A chemical paradigm to understand biological phenomena (RR-864CP)

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

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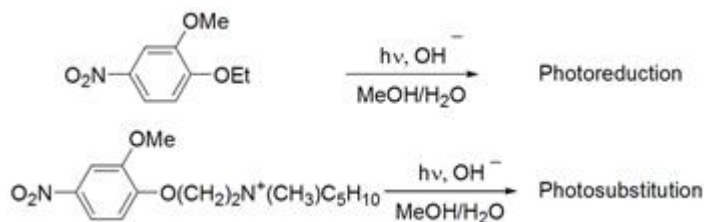
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34. Electrostatic effects on the photoreactions of nitrophenyl ethers with nucleophiles (RR-874CP)

Jordi Marquet and Chiara Tomasi

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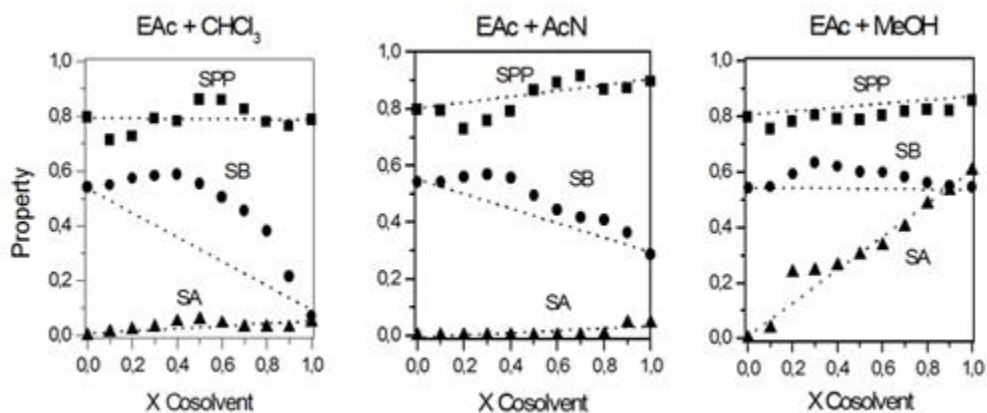
received Aug 21 2003; accepted Sep 30 2003; published Oct 4 2003;

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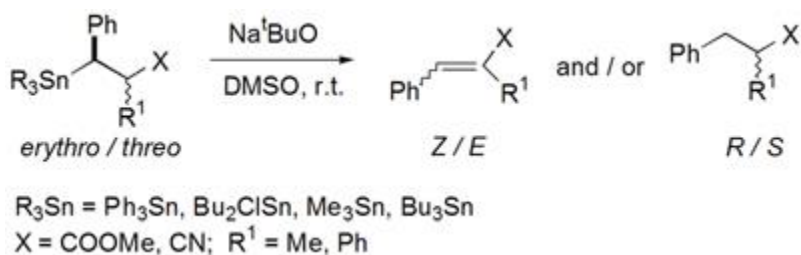
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36. Elimination vs. substitution in the reaction of 3-stannyl esters and 3-stannyl nitriles with sodium *tert*-butoxide in DMSO (RR-887CP)

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

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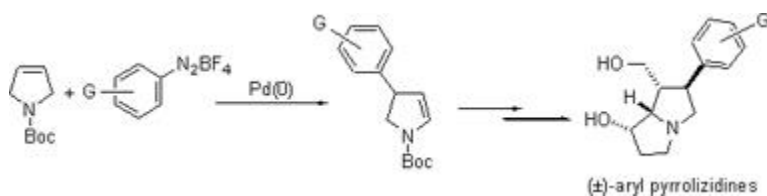
received Aug 29 2003; accepted Oct 8 2003; published Oct 10 2003;

37. Synthesis of aryl pyrrolidines 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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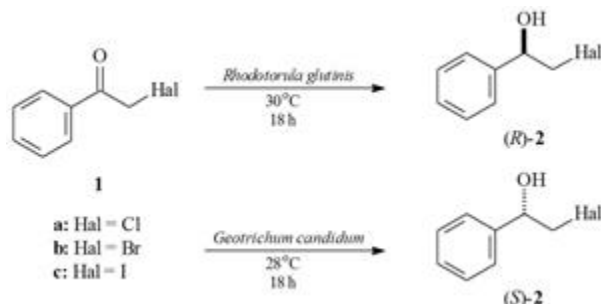
received Aug 30 2003; accepted Oct 8 2003; published Oct 12 2003;

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

Luc dio C. Fardelone, J. Augusto R. Rodrigues and Paulo J. S. Moran

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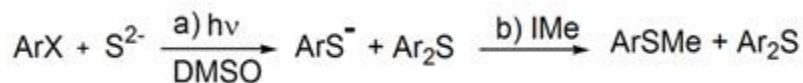
received Aug 28 2003; accepted Oct 6 2003; published Oct 12 2003;

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

Juan E. Arg ello, Luciana C. Schmidt and Alicia B. Pe  tory

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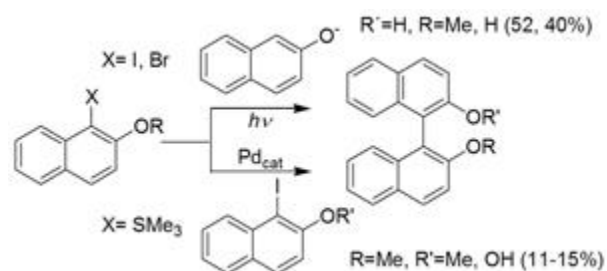
received Sep 6 2003; accepted Oct 10 2003; published Oct 12 2003;

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

Mar a T. Baumgartner, Tom s C. Tempesti and Adriana B. Pierini

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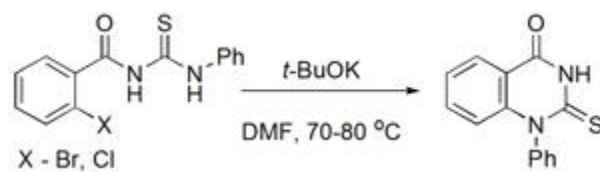
received Sep 17 2003; accepted Oct 12 2003; published Oct 16 2003;

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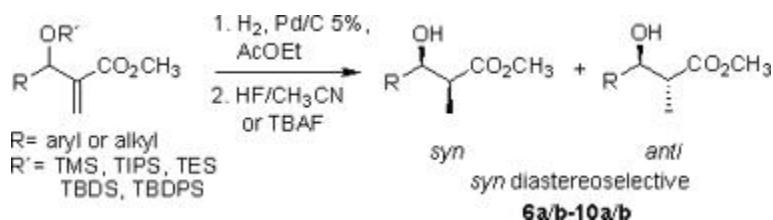
received Aug 29 2003; accepted Oct 14 2003; published Oct 16 2003;

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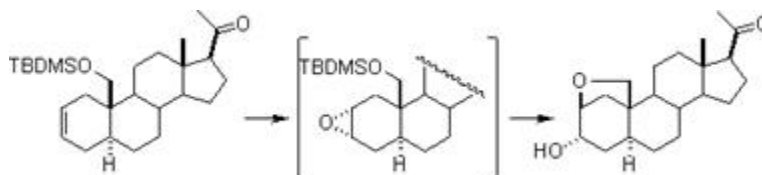
received Aug 30 2003; accepted Oct 15 2003; published Oct 22 2003;

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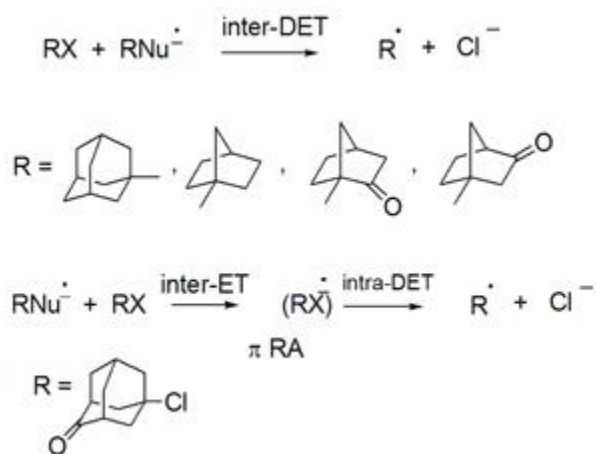
received Aug 28 2003; accepted Oct 15 2003; published Oct 22 2003;

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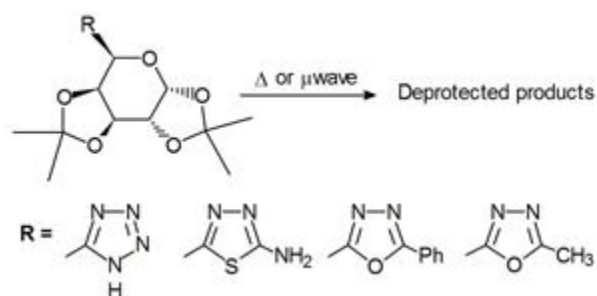
received Sep 10 2003; accepted Oct 21 2003; published Oct 30 2003;

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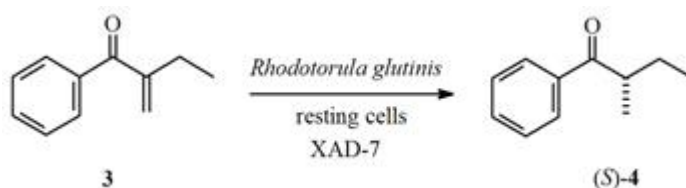
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46. Regio- and enantioselective reduction of a α -methylene ketone by *Rhodotorula glutinis* (RR-946CP)

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

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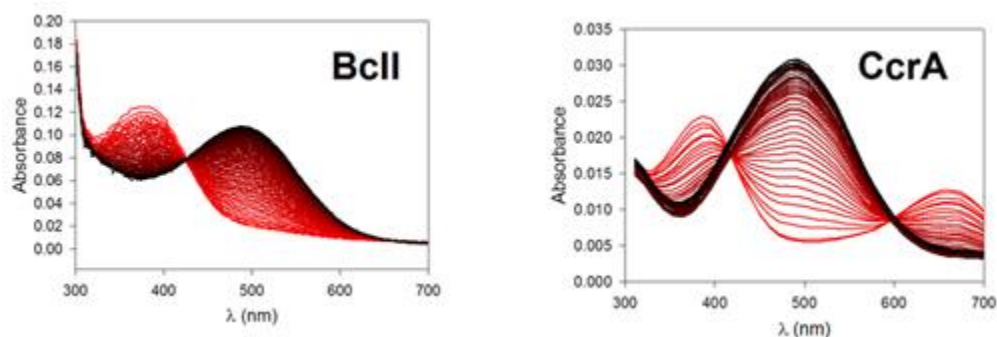
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47. Mechanistic study of the hydrolysis of nitrocefin mediated by *B.cereus* metallo- β -lactamase (RR-848CP)

Rodolfo M. Rasia and Alejandro J. Vila

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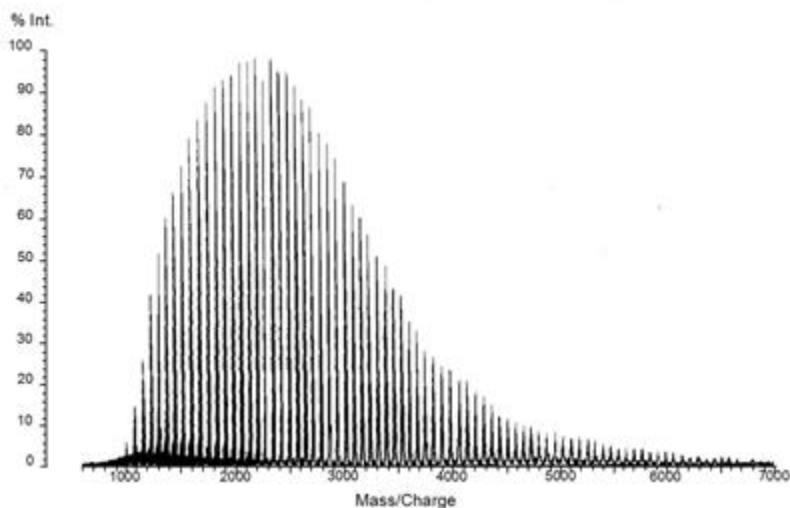
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48. UV-Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis of synthetic polymers by using nor-harmane as matrix (RR-869CP)

Rosa Erra-Balsells and Hiroshi Nonami

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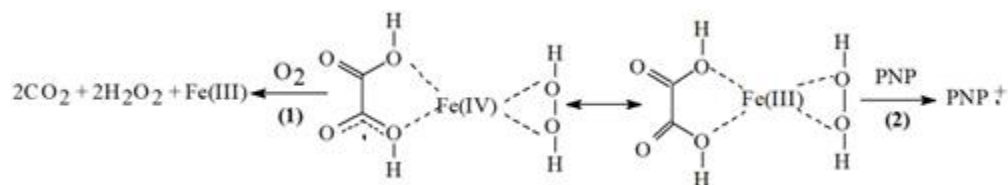
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49. On the Fenton degradation mechanism. The role of oxalic acid (RR-871CP)

Yamila Alegría, Fernando Liendo and Oswaldo Nájera

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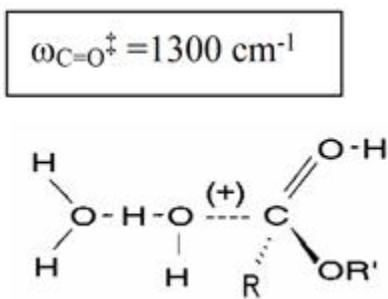
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50. The transition-state acidity and carbonyl stretching frequency in ester hydrolysis. A substituent-effect approach (RR-879CP)

Julio F. Mata-Segreda

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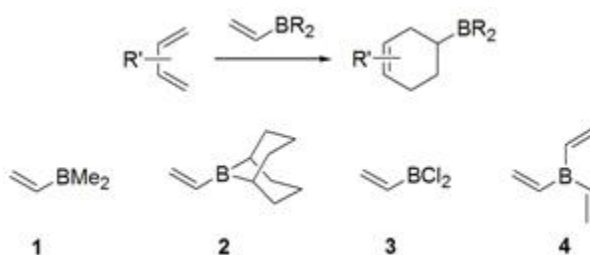
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51. Diels-Alder reactions of vinylboranes: A computational study on the boron substituent effects (RR-903CP)

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

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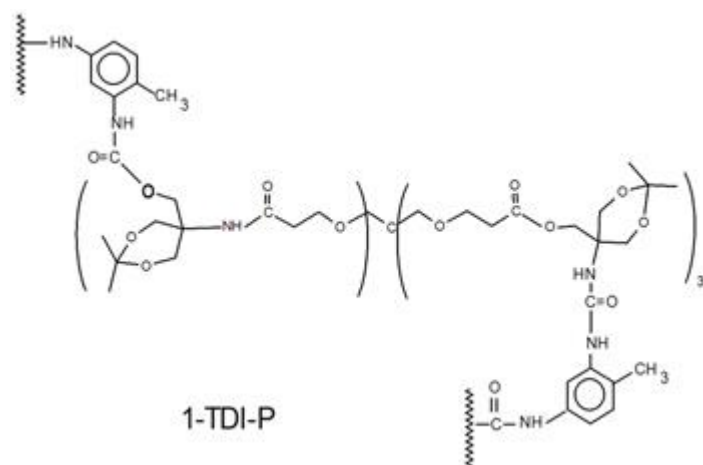
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52. Condensation reactions of a first generation of dendritic monomer (RR-909CP)

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

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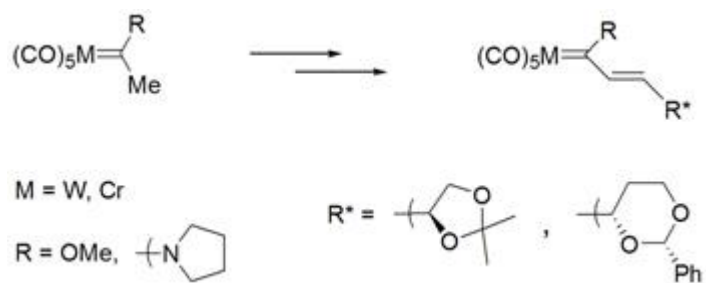
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53. Synthesis of new chiral alkenyl Fischer carbene complexes (RR-944CP)

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

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