

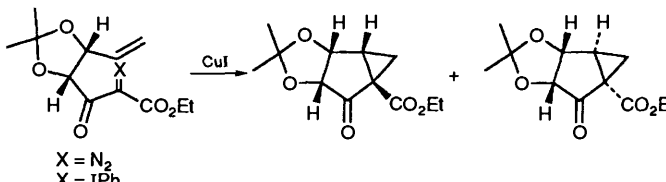
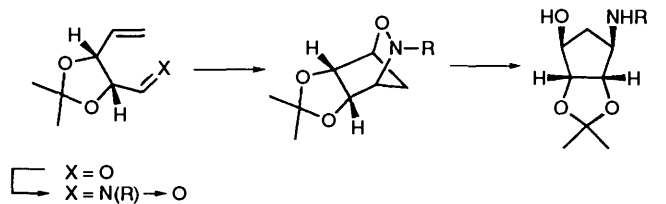
JOURNAL OF THE CHEMICAL SOCIETY

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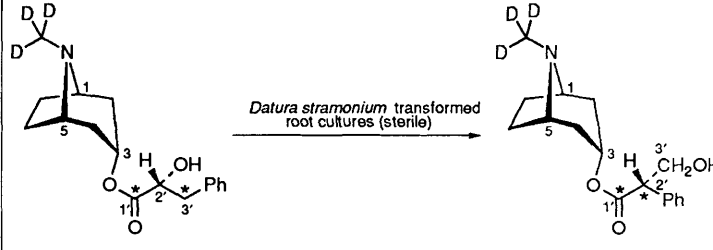
Organic and Bio-organic Chemistry

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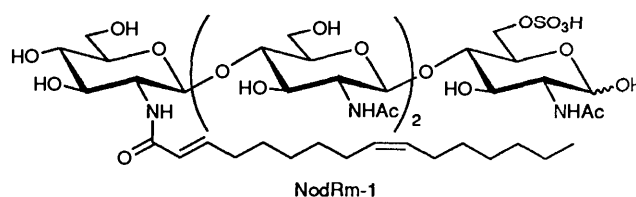
<p>611 Synthesis of enantiomerically pure bicyclo[3.1.0]hexanes from D-ribose by intramolecular cyclopropanation</p> <p>John K. Gallos, Theocharis V. Koftis and Alexandros E. Koumbis</p>	 <p>X = N₂ X = IPh</p>
<p>613 Expeditious synthesis of aminocyclopentitols from D-ribose via intramolecular nitrene cycloaddition</p> <p>John K. Gallos, Efthymia G. Goga and Alexandros E. Koumbis</p>	 <p>X = O X = N(R) → O</p>

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<p>615 Biosynthesis of hyoscyamine involves an intramolecular rearrangement of littorine</p> <p>Richard J. Robins, Peter Bachmann and Jack G. Woolley</p>	 <p>Littorine</p> <p>Hyoscyamine</p>
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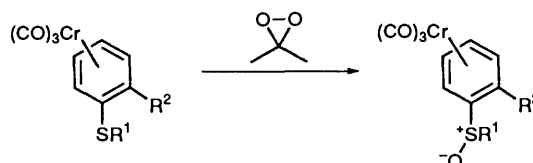
621 **Chemical synthesis of NodRm-1: the nodulation factor involved in *Rhizobium meliloti*-legume symbiosis**

Lai-Xi Wang, Chuan Li, Qin-Wei Wang and Yong-Zheng Hui



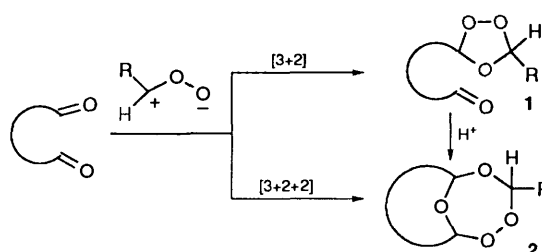
629 **Oxidation of alkylthio substituted tricarbonyl(η^6 -arene)chromium(0) complexes to alkylsulfinyl substituted tricarbonyl-(η^6 -arene)chromium(0) complexes**

Alfonso Pérez-Encabo, Stéphane Perrio, Alexandra M. Z. Slawin, Susan E. Thomas, Adam T. Wierzhleyski and David J. Williams



643 **Cycloadditions between carbonyl oxides and dicarbonyl compounds: isolation and characterisation of novel polycyclic 1,2,4,6-tetroxepane derivatives**

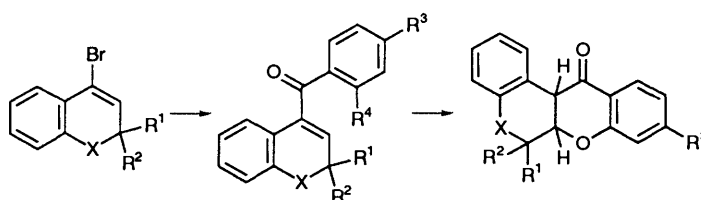
Kevin J. McCullough, Toshiya Sugimoto, Shogo Tanaka, Shigekazu Kusabayashi and Masatomo Nojima



Carbonyl oxides react with dicarbonyl compounds to give either the mono-ozonide **1** or the novel 1,2,4,6-tetroxepane derivatives **2**. In favourable cases, ozonides **1** undergo acid-catalysed rearrangement to **2**

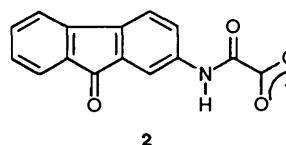
653 **Expedient syntheses of the rotenoid and thiorotenoid systems**

Christopher D. Gabbutt, John D. Hepworth and B. Mark Heron



659 **Recognition of the cell-wall binding site of the vancomycin-group antibiotics by unnatural structural motifs: ^1H NMR studies of the effects of ligand binding on antibiotic dimerisation**

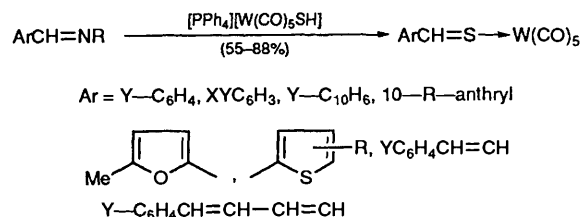
Patrick Groves, Mark S. Searle, Ines Chicarelli-Robinson and Dudley H. Williams



The binding of unnatural ligands (such as **2**) to the peptide cell-wall recognition site of ristocetin A is shown to have a highly anti-cooperative effect on antibiotic dimerisation, thought to be involved in the mechanism of action

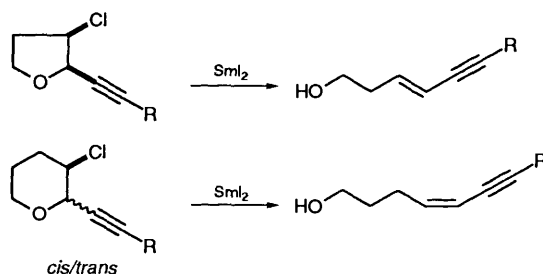
- 667 **Synthesis of aromatic and heteroaromatic thioaldehydes, aryl-thioenals, and -thiodienals as their η^1 complexes with pentacarbonyl-tungsten(0) by the reaction of aldimines and a new reagent, $[\text{PPh}_4][\text{W}(\text{CO})_5\text{SH}]$**

Motomu Muraoka, Tatsuo Yamamoto, Satoru Ajimi, Hitoshi Yamaguchi and Takako Koinuma



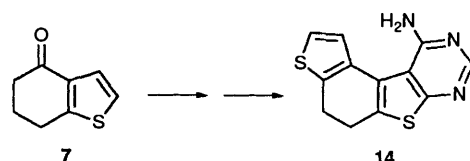
- 673 **Stereoselective synthesis of alcohols containing (*Z*)- and (*E*)-olefins, dienes, enynes and styrenes: cyclic β -halogeno ether scissions using samarium diiodide as the electron-transfer agent**

Leslie Crombie and Linda J. Rainbow



- 689 **Thieno[3',2':4,5][1]benzothieno[2,3-*d*]-pyrimidine derivatives: synthesis and conformation**

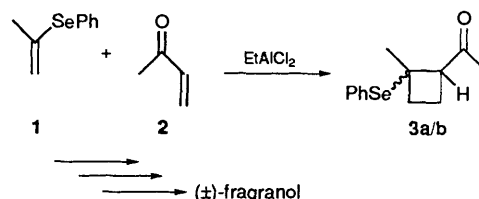
Subhra Bhattacharya, Asish De and David F. Ewing



Molecular mechanics calculations indicate that compound **14** and related compounds adopt a helical conformation

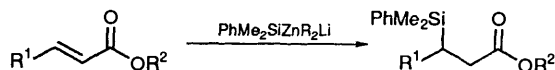
- 695 **Utilization of selenium-directed [2 + 2] cycloadditions: concise synthesis of (\pm)-fragranol**

Shoko Yamazaki, Hiroyuki Fujitsuka, Fukumi Takara and Takashi Inoue



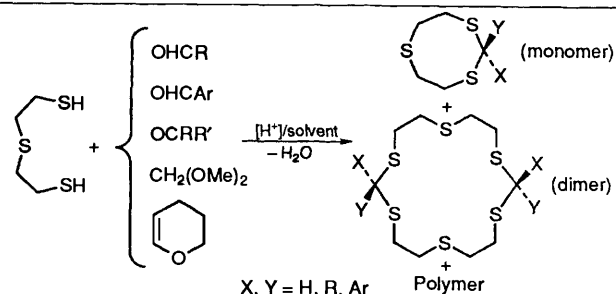
- 701 **Conjugate addition of the phenyldimethylsilyl group to $\alpha\beta$ -unsaturated carbonyl compounds using a silylzincate in place of the silylcuprate**

Roger A. N. C. Crump, Ian Fleming and Christopher J. Urch



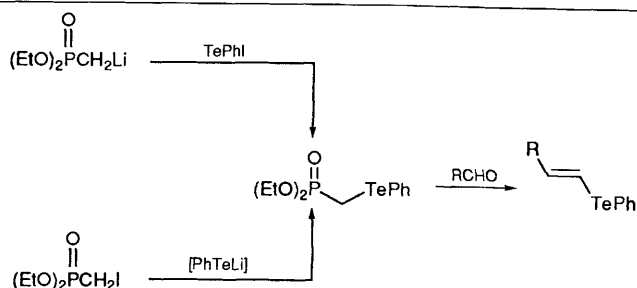
- 707 **Condensation of 2,2'-thiodiethanethiol with benzaldehyde and other carbonyl compounds (or equivalents thereof)**

Hu Xianming, Richard M. Kellogg and Fre van Bolhuis



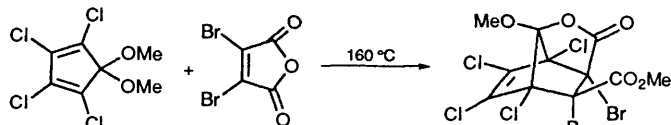
717 Preparation of 1-telluroalkylphosphonates: new synthetic route to vinyl tellurides

Chi-Wan Lee, Young Joo Koh and Dong Young Oh



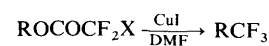
721 The alleged isolable 1,4,5,6-tetrachloro-7,7-dimethoxynorbornadiene-2,3-dicarboxylic anhydride

David W. Jones, Dionis E. Sunko and Mark Thornton-Pett

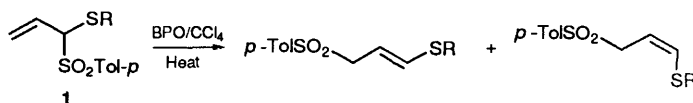
Previously the reaction was thought to give a mixture of *endo* and *exo* adducts

725 Novel synthesis of 2,2,2-trifluoroethyl compounds from homoallylic alcohols: a copper(I) iodide-initiated trifluoromethyl-dehydroxylation process

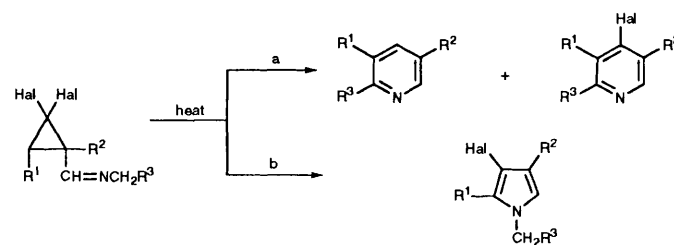
Jian-Xing Duan and Qing-Yun Chen

R = benzyl, allyl, prop-2-ynyl
X = Cl, Br, FSO₂731 Radical-induced 1,3-rearrangements of allylic sulfones bearing an alkylthio or arylthio substituent at the α -position

Judith M. Fox, Clare M. Morris, G. Darren Smyth and Gordon H. Whitham

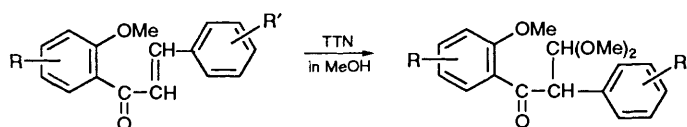
Compound **1** (R = Me) underwent 1,3-migration of *p*-TolSO₂ as shown, under similar conditions **1** (R = *p*-Tol) gave scrambled products derived by addition-elimination of both *p*-TolS \cdot and *p*-TolSO₂ \cdot radicals739 Thermal rearrangement of *N*-arylmethyl- and *N*-alkyl-2,2-dihalogenocyclopropyl imines

Shinzo Kagabu, Chihaya Ando and Junko Ando

The path a/b depends on the substituents, Hal, R¹, R² and R³

753 Oxidative rearrangement of chalcones without a hydroxy group by thallium(III) nitrate in methanol

Tokunaru Horie, Yasuhiko Kawamura, Chikako Sakai, Ayako Akita and Masafumi Kuramoto

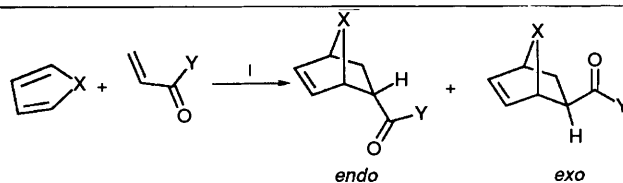


The substituent effect in chalcones is elucidated in order to survey their scope and limitation and a mechanism is proposed

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761 **Diels–Alder reactions catalysed by cation-exchanged clay minerals**

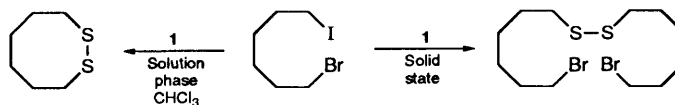
John M. Adams, Stuart Dyer, Keith Martin, W. Alan Matear and Richard W. McCabe



Y = Me or OMe
X = CH₂CH₂, NH or O, but not S
i, Transition metal exchanged clay

767 **Highly selective sulfur transfer reaction in the solid state**

A. R. Ramesha and Srinivasan Chandrasekaran



Benzyltriethylammonium tetrathiomolybdate **1** reacts with benzylic halides, alkyl iodides and acyl halides in the solid state to give the corresponding disulfides in good yields with remarkable selectivity

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J.K.M. Sanders and C.M. Pearce

Additions of Lithiated β -Hydroxy Alkyldiphenylphosphine Oxides to Aldehydes and Palladium(II)-catalysed Allylic Transpositions of Bis-acetoxy Alkyldiphenylphosphine Oxides: Synthesis of *O*-Protected (*E,E*)- and (*E,Z*)-Hepta-2,4-dien-1-ol and of Alkyldiphenylphosphine Oxides Bearing Remote Chiral Centres

S. Warren and J. Clayden

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