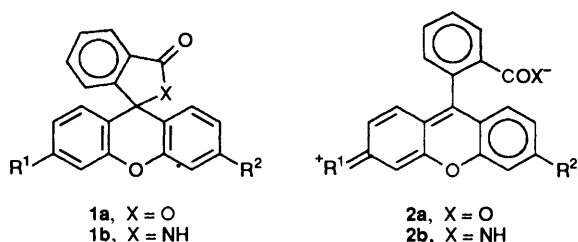


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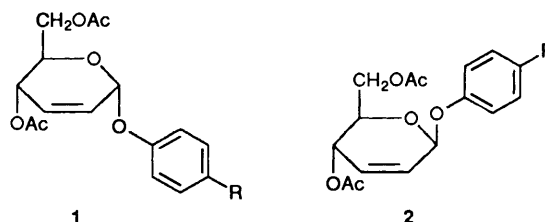
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- 1399 **Aromatic Claisen rearrangements in carbohydrates: stereocontrol of rearrangement rates in unsaturated sugar substrates**

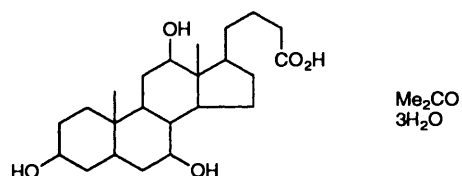
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- 1403 **Crystal structure and multiphase decomposition of a novel cholic acid inclusion compound with mixed guests**

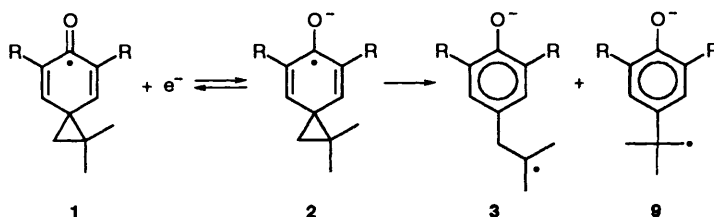
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- 1407 **Characterization of a 'hypersensitive' probe for single electron transfer to carbonyl compounds**

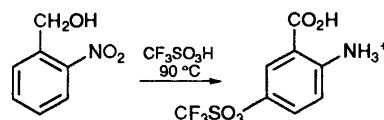
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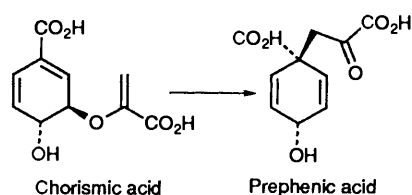
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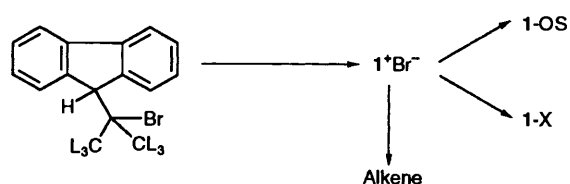
- 1419 **Ring opening of α -pinene epoxide**



The acid-catalysed ring opening of α -pinene epoxide is believed to proceed by initial carbon-to-carbon bond fission, followed by cleavage of the heterocyclic ring produced, and expansion of the cyclobutane ring to give the observed products

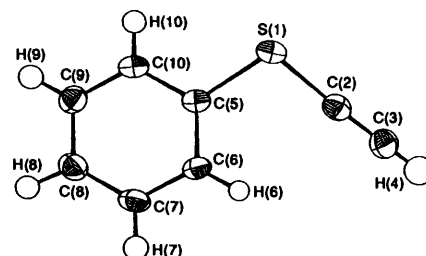
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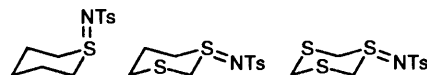
- 1435 **Kinetic solvent isotope effects and activation parameters for the intramolecular addition–elimination between amino and amide groups in 1-amino-8-trifluoroacetylnaphthalene under acidic conditions**

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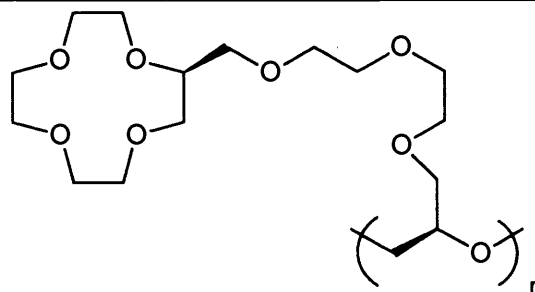
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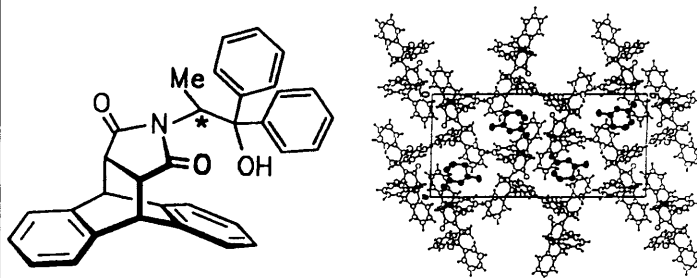
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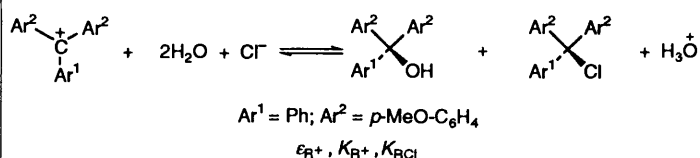
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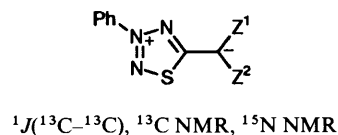
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1471 **Kinetics of aminolysis of some benzoyl fluorides and benzoic anhydrides in non-hydroxylic solvents**

Maria Jedrzejczak, Richard E. Motie, Derek P. N. Satchell, Rosemary S. Satchell and Wasfy N. Wassef

$$-d[\text{ArCOF}]/dt = \{k_1[\text{A}] + k_2[\text{A}]^2\}[\text{ArCOF}]$$

$$\text{or} = \{k_2[\text{I}]^2 + k_3[\text{I}]^3\}[\text{ArCOF}]$$

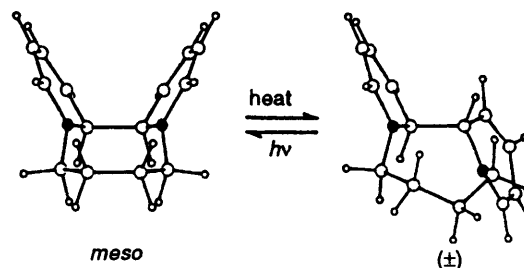
$$-d[(\text{ArCO})_2\text{O}]/dt = k_1[\text{A}][(\text{ArCO})_2\text{O}]$$

$$\text{or} = \{k_1[\text{I}] + k_2[\text{I}]^2\}[(\text{ArCO})_2\text{O}]$$

A = RNH₂ or R₂NH; I = imidazole or substituted imidazole

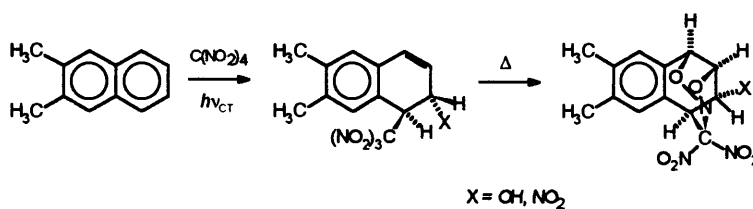
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1491 **Solvent effects on chemical processes. Part 6. The phenomenological model applied to the solubility of naphthalene and 4-nitroaniline in binary aqueous-organic solvent mixtures**

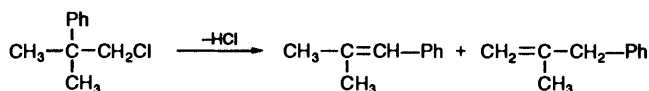
Jason M. LePree, Michael J. Mulski and Kenneth A. Connors

$$\delta_M \Delta G_{\text{soln}}^* = \Delta G_{\text{soln}}^*(x_2) - \Delta G_{\text{soln}}^*(x_2 = 0)$$

$$\delta_M \Delta G_{\text{soln}}^* = \frac{(gA\gamma' - kT \ln K_1)K_1 x_1 x_2 + (2gA\gamma' - kT \ln K_1 K_2)K_1 K_2 x_2^2}{x_1^2 + K_1 x_1 x_2 + K_1 K_2 x_2^2}$$

1499 **Phenyl migration in the molecular pyrolytic elimination of 1-chloro-2-methyl-2-phenylpropane in the gas phase**

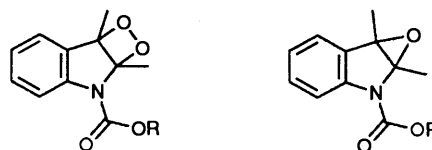
Gabriel Chuchani and Rosa M. Domínguez



Phenyl migration was the prevailing pathway for the rearrangement process

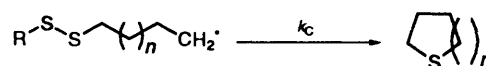
1503 **Indole dioxetanes and epoxides by oxidation of *N*-acylated indoles with singlet oxygen and dimethyldioxirane: kinetics and chemiluminescence yields of the thermal dioxetane decomposition and fluoride ion-induced CIEEL emission**

Waldemar Adam and Dirk Reinhardt



Synthesis of persistent *N*-acylated indole dioxetanes and epoxides; kinetics and chemiluminescence yields of the thermal dioxetane decomposition and fluoride ion-triggered CIEEL emission

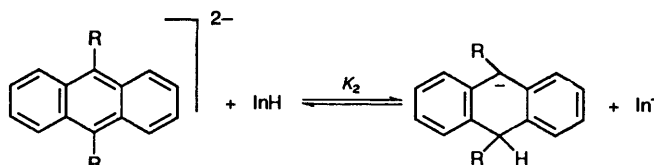
1509 Kinetics of intramolecular alkyl radical attack on sulfur in disulfides and thioesters



Athelstan L. J. Beckwith and Sandhya A. M. Duggan

The rate constants for ring closure by S_H on sulfur when n is 1 or 2 and R is alkyl or acyl have been determined and compared with those for intermolecular reactions

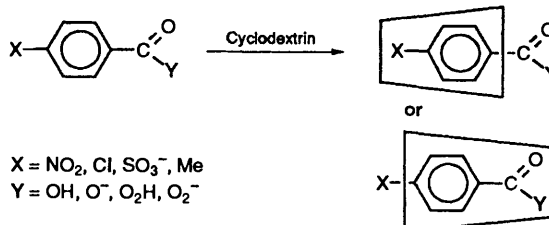
1519 Acidity of dibasic acids I: the second acidity constant of 9,10-dihydroanthracene and its 9,10-substituted derivatives: effect of substituent and counter ion



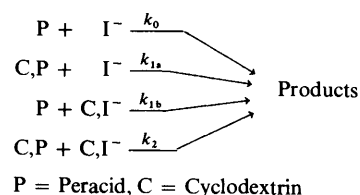
Israel O. Shapiro, Malka Nir, Roy E. Hoffman and Mordecai Rabinovitz

$$pK_2 = pK_{InH} + \log K_2$$

1525 Cyclodextrin complexes of substituted perbenzoic and benzoic acids and their conjugate bases: free energy relationships show the interaction of polar and steric factors

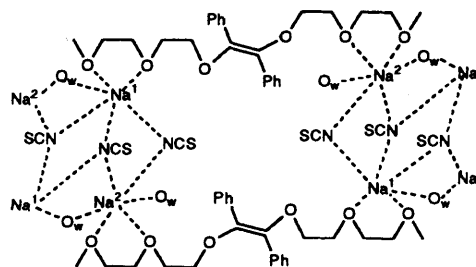


D. Martin Davies and James R. Savage

1531 Multiple pathways in the α -cyclodextrin catalysed reaction of iodide and substituted perbenzoic acids

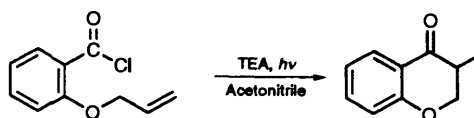
D. Martin Davies, G. Alun Garner and James R. Savage

P = Peracid, C = Cyclodextrin

1539 Formation and X-ray analysis of the supramolecular system obtained by the complexation of (*E*)-9,10-diphenyl-2,5,8,11,14,17-hexaoxaoctadec-9-ene with sodium thiocyanate. A new coordination type for SCN^- 

Bernard Tinant, Jean-Paul Declercq and Josy Weiler

1545 Photochemistry of triethylamine-acid chloride charge-transfer complexes

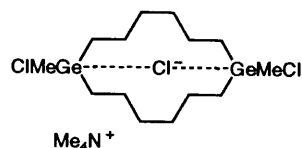


Suresh Das, C. S. Rajesh, T. L. Thanulingam, D. Ramaiah and M. V. George

Charge-transfer photochemistry of triethylamine-acid chloride complexes have been examined and this provides a cyclization route as illustrated in the synthesis of 3-methylchroman-4-one from *O*-allylsalicylyl chloride

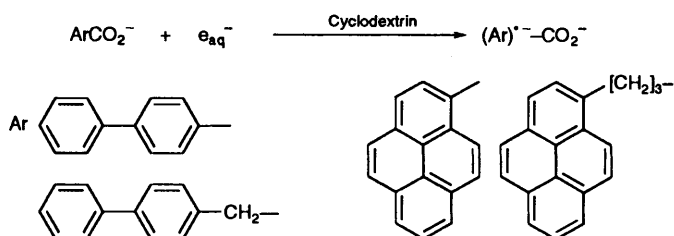
- 1549 **1,8-Dimethyl-1,8-dihalo-1,8-digermacyclotetradecanes. The first digermacycles with anion transport capability**

Shigenobu Aoyagi, Katsumi Tanaka and Yoshito Takeuchi



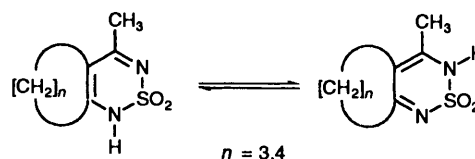
- 1555 **Pulse radiolysis of aromatic carboxylates in aqueous solution and effect of cyclodextrin complexation on the one-electron reduction by the hydrated electron**

Yukio Yamamoto



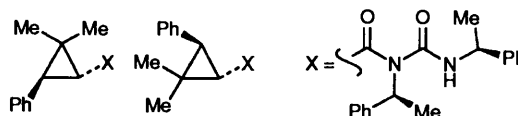
- 1561 **Tautomerism of benzo- and cyclopenta-[1,2,6]thiadiazine *S,S*-dioxides**

Ana Castro and Ana Martínez



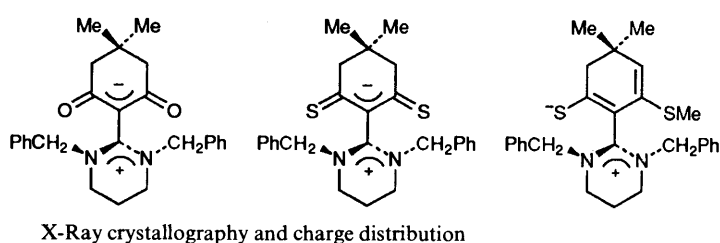
- 1565 **Conformation of *N*-cyclopropylcarbonylureas. Solvent polarity dependent chemical shifts**

Shigeo Kohmoto, Hideaki Kasimura, Takehiko Nishio, Ikuo Iida, Keiki Kishikawa, Makoto Yamamoto and Kazutoshi Yamada



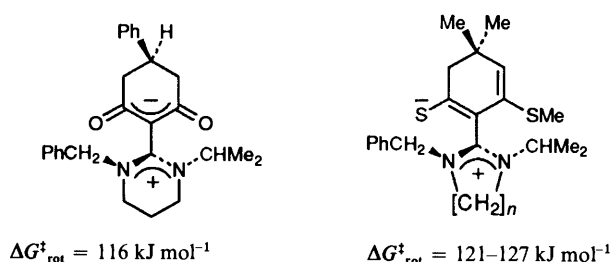
- 1569 **Twist angles and bond lengths in three twisted push-pull ethylenes. Interplay between steric and electronic effects**

Agha Zul-Qarnain Khan, Fen-Ling Liao, Jan Sandström and Sue-Lein Wang



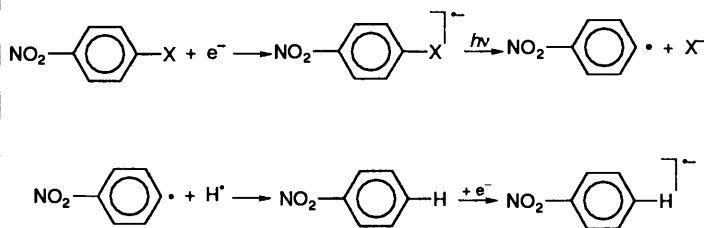
- 1575 **Enantiomer and diastereoisomer resolution, rotational barriers, and CD and UV spectra of some twisted push-pull ethylenes**

Agha Zul-Qarnain Khan and Jan Sandström

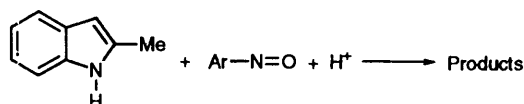


1581 Photoelectrochemical reduction of *p*-halo-nitrobenzenes

Richard G. Compton, Robert A. W. Dryfe and Adrian C. Fisher

1589 Nitrenium ions. Part 1. Acid-catalysed reactions of 2-methylindole with nitrosobenzenes. Crystal structures of 2-phenylamino-3-phenylimino-3*H*-indole, 2-(*o*-tolylamino)-3-(*o*-tolylimino)-3*H*-indole, *N*-phenyl-*N*-(2-phenylamino-3*H*-indol-3-ylidene)amine *N*-oxide and bis(2-methyl-1*H*-indol-3-yl)methane

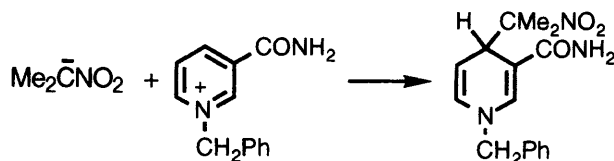
Liberato Cardellini, Patricia Carloni, Elisabetta Damiani, Lucedio Greci, Pierluigi Stipa, Corrado Rizzoli and Paolo Sgarabotto



2-Methylindole reacts with nitrosobenzenes activated with acid to give compounds which indicate the presence of a nitrenium ion through the formation of carbon–nitrogen bonds; the reaction has been interpreted as a competition between electrophilic attack and electron transfer process

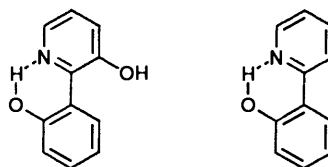
1597 Regioselective addition of 2-nitropropane anion to NAD^+ analogues

Shunichi Fukuzumi, Morifumi Fujita, Junichi Maruta and Michel Chanon

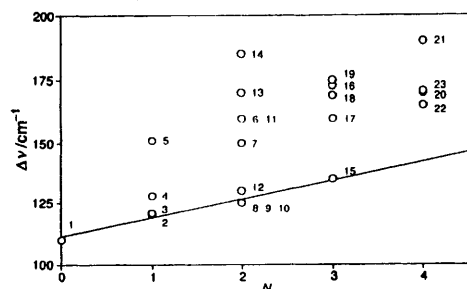
Regioselective addition of the tetramethylammonium salt of 2-nitropropane to NAD^+ analogues has been investigated

1603 Structure and photophysics of deazabipyridyls. Excited internally hydrogen-bonded systems with one proton transfer reaction site

Łukasz Kaczmarek, Roman Balicki, Janusz Lipkowski, Paweł Borowicz and Anna Grabowska

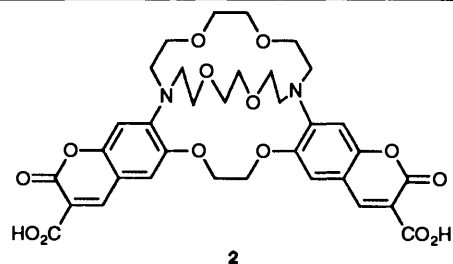
Proton transfer reaction in S_1 state is discussed1611 Complexes of ketones with SbF_5 in the condensed phase. Structural effects on the carbonyl stretching frequencies

Hrvoj Vančik, Vesna Gabelica, Zlatko Mihalić and Dionis E. Sunko

The relationship of experimental $\Delta\nu$ [$\nu_{\text{C=O}}(\text{ketone}) - \nu_{\text{C=O}}(\text{complex})$] vs. N (number of $\text{C}\alpha\text{-C}\beta$ bonds)

1615 **Synthesis and properties of a potential extracellular fluorescent probe for potassium**

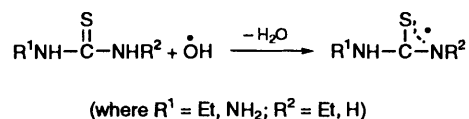
Roger Crossley, Zia Goolamali and Peter G. Sammes



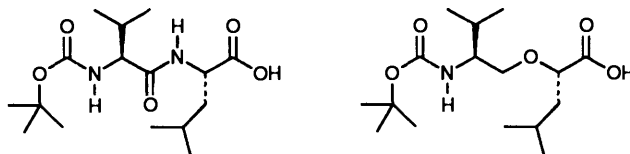
Compound **2** shows high, selective affinity for potassium ions, with K_D values in the range 1–10 mmol dm⁻³ of potential value as an extracellular potassium probe

1625 **Nature of the transient species formed in the pulse radiolysis of some thiourea derivatives**

Ghasi Ram Dey, Devidas B. Naik, Kamal Kishore and Pervaje N. Moorthy

1631 **Insertion of the methylene-oxy surrogate of the amide bond into Boc-Val-Leu-OH: X-ray crystal structure, solution conformation and molecular modelling study**

Gérald Villeneuve, John DiMaio, Marc Drouin and André G. Michel

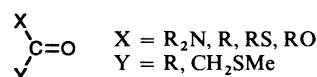
1641 **Using theoretical descriptors in quantitative structure–property relationships: 3-carboxybenzisoxazole decarboxylation kinetics**

George R. Famini and Leland Y. Wilson

Decarboxylation rate data of substituted 3-carboxybenzisoxazoles in various solvents is correlated with computationally derived molecular parameters involving size, polarizability, acidity and basicity

1651 **Ab initio and electron spectroscopy study of carbonyl derivatives**

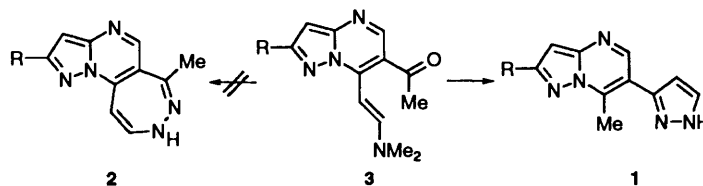
Derek Jones, Alberto Modelli, Paulo R. Olivato, Maurizio Dal Colle, Marcello de Palo and Giuseppe Distefano



Filled and empty MO energies and electron charge distribution give information on the interactions between the carbonyl and X and Y groups

- 1657 **Chemistry of substituted pyrazolo[1,5-*a*]-pyrimidines. Part 4. A structural correction of a series of pyrazolo[5',1':2,3]pyrimido[5,4-*d*]-[1,2]diazepines on the basis of NMR spectroscopy and X-ray diffraction analysis**

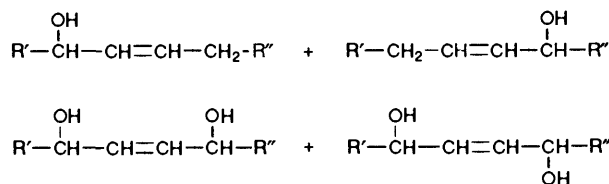
Stefano Chimichi, Barbara Cosimelli, Fabrizio Bruni, Silvia Selleri, Annarella Costanzo, Gabriella Guerrini and Giovanni Valle



7-Methyl-6-(pyrazol-3'-yl)pyrazolo[1,5-*a*]pyrimidines **1** and not, as formerly claimed, 6-methylpyrazolo[5',1':2,3]pyrimido[5,4-*d*][1,2]-diazepines **2** are shown to be the final products in the reaction of 6-acetyl-7-(2-dimethylaminovinyl)pyrazolo[1,5-*a*]pyrimidines **3** with hydrazine hydrate in acetic acid

- 1661 **Allylic mono- and di-hydroxylation of isolated double bonds with selenium dioxide-*tert*-butyl hydroperoxide. NMR characterization of long-chain enols, allylic and saturated 1,4-diols, and enones**

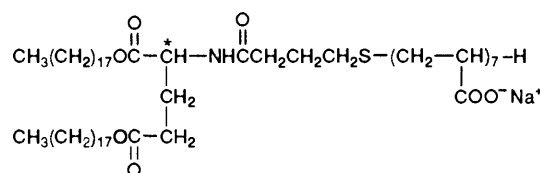
Gerhard Knothe, Marvin O. Bagby, David Weisleder and Robert E. Peterson



¹³C NMR identifies diastereoisomers and positional isomers

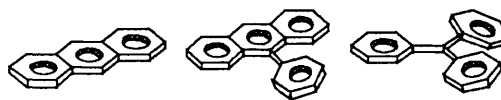
- 1671 **Formation of specific hydrophobic sites for incorporation of methylene blue by laterally arranged L-glutamate residues in anionic, crystalline bilayer aggregates**

Hiroshi Hachisako, Tetsuya Yamazaki, Hirotaka Ihara, Chuichi Hirayama and Kimiho Yamada



- 1681 **Recognition of molecular planarity of cationic dyes by anionic, crystalline bilayer aggregates. Evidence using metachromatic and solvatochromic properties**

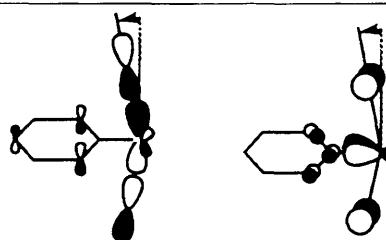
Hiroshi Hachisako, Tetsuya Yamazaki, Hirotaka Ihara, Chuichi Hirayama and Kimiho Yamada



Schematic representation of molecular planarity of cationic dyes

- 1691 **Electronic structure and bonding in polycordinated iodine compounds**

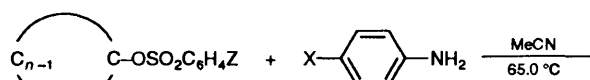
Vassilios E. Mylonas, Michael P. Sigalas, George A. Katsoulos, Constantinos A. Tsipis and Anastasios G. Varvoglis



Stabilizing orbital interactions in the PhICl₂ molecule

- 1697 **Kinetics and mechanism of the aminolysis of cycloalkyl arenesulfonates**

Hyuck Keun Oh, Young Bong Kwon, In Ho Cho and Ikchoon Lee

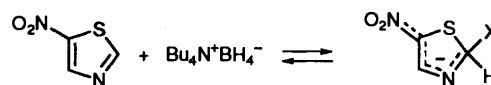


$n = 4-7$

Constant ρ_{XZ} ($= 0.11$) for all n

1703 **Formation of σ -anionic complexes in reactions between 5-nitrothiazole, 6-nitrobenzothiazole and tetrabutylammonium borohydride**

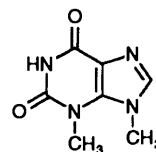
Luciano Forlani, Antonio Ferrara, Andrea Lugli and Paolo E. Todesco



Stability and rate of formation of σ -anionic complexes are investigated in toluene, tetrahydrofuran and in dimethylsulfoxide

1709 **Oxidation of 3,9-dimethylxanthine at stationary pyrolytic graphite electrode**

Rajendra N. Goyal, Amit K. Srivastava and Vandana Bansal



The electroactive species in oxidation is an anion with two-positive charge which leads to the formation of 1-methylalloxane and 5-hydroxy-3-methylhydantoin-5-carboxamide as the products in an EC mechanism

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