

# Journal of The Chemical Society

## Chemical Communications

5 JUNE 1974

JCCCAT (11) 417–456 (1974)

### CONTENTS

Page

- 417 Hydrogenation over Alumina **Paul A. Sermon, Geoffrey C. Bond, and Geoffrey Webb**  
418 Monoalkali Phenolic Salts of 3,5-Dinitrosalicylic Acid **Barry Cleverley**  
419 A Key Intermediate for the Synthesis of Some Nuclear Analogues of the Penicillins and Cephalosporins **Joseph R. Hlubucek and Gordon Lowe**  
420 Total Synthesis of the Antibiotic, Actinonin **Nicholas H. Anderson, W. David Ollis, John E. Thorpe, and A. David Ward**  
421 Regiospecific and Stereoselective Synthesis of Analogues of the Antibiotic, Acinonin **John P. Devlin, W. David Ollis, John E. Thorpe, (the late) Ronald J. Wood, Barbara J. Broughton, Peter J. Warren, Kenneth R. H. Wooldridge, and Derek E. Wright**  
423 Association Constants of 1:1 Electrolytes in Water from Conductivity Measurements **Alan D. Pethybridge and David J. Spiers**  
425 One-step Synthesis of Oxazolidine-2-thiones in Dimethyl Sulphoxide **Michel Chanon, Françoise Chanon, and Jacques Metzger**  
425 Acid-catalysed Rearrangements of Trevoagenin A and B **Antonio G. González, Manuel Cortés, and Ernesto Suárez**  
426 Intramolecular Motion in Tetra-t-butylidiphosphine **Silvio Aime, Robin K. Harris, Elizabeth M. McVicker, and Manfred Fild**  
427 Salts of Hexafluorobenzene Cation,  $C_6F_5^+$  **Thomas J. Richardson and Neil Bartlett**  
428 A Stable Nitroxide Radical Derived from  $\alpha$ -Pinene **Henry H. Quon, Takahiro Tezuka, and Yuan L. Chow**  
429 Fluorination of Alkenes with Lead(IV) Fluorides: Isolation of a Lead-containing Intermediate **Michel Ephritikhine and Jacques Levisalles**  
430 Synthesis of a Steganone Analogue **Dan Becker, Leslie R. Hughes, and Ralph A. Raphael**  
431 Wide Range Nematic Mixtures Incorporating 4'-n-Alkyl-4-cyano- $\beta$ -terphenyls **George W. Gray, Kenneth J. Harrison, and John A. Nash**  
432 *Ab Initio* Molecular Orbital Calculations on Aminophosphine,  $H_2NPH_2$ . The Stereochemistry at Phosphorus **Imre G. Csizmadia, Alan H. Cowley, Milburn W. Taylor, and Saul Wolfe**  
433 Photochemical Synthesis of 2,3-Homoindoles **Masazumi Ikeda, Saeko Matsugashita, Fujio Tabusa, Hiroyuki Ishibashi, and Yasumitsu Tamura**  
434 Biosynthesis of Phytoecdysone: Incorporation of  $2\beta,3\beta,14\alpha$ -Trihydroxy-5 $\beta$ -cholest-7-en-6-one into  $\beta$ -Ecdysone and Inokosterone in *Achyranthes fauriei* **Yutaki Tomita and Eiichi Sakurai**  
435 Stereochemistry at Co-ordinated Nitrogen in Chiral Platinum(II) Complexes **Piero Salvadori, Raffaello Lazzaroni, and Stefano Merlini**  
437 Reactions of Ozone with Saturated Hydrocarbons. Ozone-Hydrocarbon Complexes **Haim Varkony, Shimeon Pass, and Yehuda Mazur**  
438 A New Route to 4-Alkylthio-3-phenylacetamidoazetidin-2-ones **David F. Corbett and Richard J. Stoodley**  
439 Stoichiometric Hydrogenation of Olefins using  $HRuCl(PPh_3)_3$  and Formation of an *ortho*-Metallated Ruthenium(II) Complex **Brian R. James, Larry D. Markham, and Daniel K. W. Wang**

Contents—continued overleaf

## Contents—continued

Page
440 Derivatives of Pyrano[3,2- <i>c</i> ][1]benzopyran; Synthesis of Di- <i>O</i> -methylcitromycin <b>Francis M. Dean, Stephen Murray, and William Taylor</b>
441 Carbonyl Site Exchange in the Mixed Metal Carbonyl RhCo <sub>3</sub> (CO) <sub>12</sub> <b>Brian F. G. Johnson, Jack Lewis, and Trevor W. Matheson</b>
442 Nickel(II) Complexes of Two New Phosphorus–Nitrogen Macroyclic Ligands <b>Jeanette Riker-Nappier and Devon W. Meek</b>
443 A Biomimetic Synthesis of ( $\pm$ )-Scytalone (3,6,8-Trihydroxytetralone) <b>Barrie W. Bycroft, Mohan M. Cashyap, and Tak K. Leung</b>
444 Preparation of a Symmetrical Tetra-alkyl Monoselenopyrophosphate: Bis-(5,5-dimethyl-2-oxo-1,3,2-dioxaphosphorinan-2-yl) Selenide <b>David S. Rycroft and Raymond F. M. White</b>
445 Detection of C–C Bond Fission during the Biosynthesis of the Fungal Triprenylphenol Ascochlorin using [1,2- <sup>13</sup> C]-Acetate <b>Masato Tanabe and Kazuo T. Suzuki</b>
446 Extension of the “Handle” Method of Peptide Synthesis: the Use of 4-Picolyloxycarbonylhydrazides <b>Robert Macrae and Geoffrey T. Young</b>
447 <sup>1</sup> H Nuclear Magnetic Resonance Study and Structure of (Monohydrogen <i>meso</i> -Tetraphenylporphyrinato)-tricarbonylrhenium(I) <b>Tapeswari S. Srivastava, Chang-Po Hrung, and Minoru Tsutsui</b>
448 Fluorescence Spectra and Singlet Energy of Conjugated Dienes <b>Jacques Pusset and René Beugelmans</b>
449 Electrochemical Production of Alkyl Methyl Carbonates. A Source of Hydroxy-compounds <b>Roger Brettle and John R. Sutton</b>
450 Photolysis Products from 4 $\alpha$ - and 4 $\beta$ -Hydroxysantonenes <b>D. Stuart, R. East, T. Brian H. McMurry, and Ratnakar R. Talekar</b>
451 $^1J(^{13}\text{C}^{31}\text{P})$ Sign Variation in Phosphorus(III) Heterocycles: Existence of Both Positive and Negative $^1J(^{13}\text{C}^{31}\text{P})$ to the Same phosphorus <b>George A. Gray and Sheldon E. Cremer</b>
452 Pentalene Complexes from Cyclo-octatetraenes: Crystal Structure of Ru <sub>3</sub> (CO) <sub>8</sub> (C <sub>8</sub> H <sub>6</sub> ) <b>Judith A. K. Howard, Selby A. R. Knox, Victor Riera, F. Gordon A. Stone, and Peter Woodward</b>
453 Diterpenoids of <i>Solidago Arguta</i> Ait. The Stereochemistry of <i>cis</i> -Clerodanes <b>Allan B. Anderson, Robert McCrindle, and Etsu Nakamura</b>
455 X-Ray and Molecular Structure of 2,2 -(Ethylenedithio)bis-1,3,2-dithiaphospholan <b>M. Gary Newton, Henry C. Brown, C. J. Finder, J. B. Robert, J. Martin, and D. Tranqui</b>