Journal of The Chemical Society Chemical Communications

2 NOVEMBER 1977

JCCCAT (21) 741-796 (1977)

CONTENTS

Page	
741	A New Type of Clathrate Host: Tris-(5-acetyl-3-thienyl)methane Laily bin Din and Otto Meth-Coh
742	Novel Access to 2-Substituted Indoles and a Convenient Synthesis of Secodine-type Alkaloids Christian Marazano, Jean-Louis Fourrey, and Bhupesh C. Da
743	Description of a Characteristic Infrared Frequency for Acidic Hydroxy-groups in Zeolites
	Denise Barthomet
744	Crystal Structure of Silyl Isocyanate at 140 K Michael J. Barrow, Stephen Cradoel E. A.V. Ebsworth, and Marjorie M. Hardin
745	Quinizarin Boroacetate and 1,4-Diaminoanthraquinone Diboroacetate as Dienophiles Anthony J. H. Mercer, A. Margaret Chippendale, and Colin W. Greenhalg
747	Syntheses of Medium-ring 1,k + 2-Diazabicyclo[k.l.m.]alkanes by Reductive Cleavage of Hydrazinium Dication Roger W. Alder, Richard B. Sessions, and (in part) John M. Mellor and Michael F. Rawlin
748	Total Synthesis of (±)-Clavulanic Acid Peter H. Bentley, Peter D. Berry, Gerald Brook Martin L. Gilpin, Eric Hunt, and Iskander I. Zomay
749	Photochemically Induced Oxidation of Some Steroidal Isoxazolidines by Molecular Oxygen Ljubinka Lorenc, Ivan Juranić, and Mihailo Lj. Mihailovi
751	Removal of 1,3-Dithiolan Protecting Groups by Benzeneseleninic Anhydride Derek H. R. Barton, Nigel J. Cussans, and Steven V. Le
753	Synthesis of some p-Mannofuranosyl and p-Lyxofuranosyl Imidazole and Adenine Nucleosides and Anomalou ¹ H Nuclear Magnetic Resonance Spectra of Related Anomers Grahame Mackenzie and Gordon Shaw
754	Rearrangement of Peroxynitrite Esters Derek H. R. Barton, Robert H. Hesse, Maurice M. Pechet, and Leslie C. Smit
755	Spectroscopic Evidence for Non-planarity in Nickel(III) Complexes of Macrocyclic Ligands. Pulse Radiolys and Electron Spin Resonance Studies in Aqueous Solution. Guillermo Ferraudi and Larry Patterso
757	Dimeric Ruthenium(II) Complexes with Bridging NN-Dimethylhydrazine Ligands: X-Ray Analysis of the Structure of [{RuHCl(cyclo-octa-1,5-diene)} ₂ NH ₂ NMe ₂] Terence V. Ashworth, Magriet J. Nolte, Rolf H. Reimann, and Eric Singleto
758	t-Butyl Methyl Iminodicarboxylate Potassium Salt: a Modified Gabriel Reagent for the Introduction of t-Butoxycarbonylamino Groups John D. Elliott and John H. Jone
759	Identification of a 3-(2-Piperidyl) pyridinium Derivative ('Anabilysine') as a Cross-linking Entity in a Glutar aldehyde-treated Protein Paul M. Hardy, Graham J. Hughes, and H. N. Rydo
760	Multiple Rhodium(II)-Rhodium(III) Bond in the Dimer [Rh ₂ (O ₂ CMe) ₄ (H ₂ O) ₅][ClO ₄]·H ₂ O; X-Ray Crysta Structure Jozef J. Ziółkowski, Monika Moszner, and Tadeusz Glowia
761	Synthetic Use of an Unusual Organocuprate Intermediate Jean-Marie Dollat, Jean-Louis Luche, and Pierre Crabb
763	Dihalide Complexes of Titanium(IV) Tetraphenylporphyrin. Precursors to Low-valent Titanium Porphyrin Masayuki Nakajima, Jean-Marc Latour, and Jean-Claude Marchot
764	Stopped-flow Kinetic Studies on Electron-transfer Reactions of Blue Copper Proteins. Evidence for an Initia Association in Reactions of Plastocyanin with Inorganic Complexes Michael G. Segal and A. Geoffrey Syke
766	Orientation of Dinitrogen Trioxide Addition to 2-Methylpropene and Structure of the Addition Product Josef Pfal
767	Leaving Ability and Basicity of Leaving Groups Attached by First-row Elements Caroline C. Jones and Michael L. Sinnot
	Contents—continued overlas

Contents-continued

Page	
768	3-Cyano-3-methoxycarbonyl-2,4,4,5-tetraphenylpyrrolidine as a Precursor of Benzylidenammonium Benzylid Sourisak Sinbandhit and Jack Hameli
769	Aryl Radical Formation during the Thermal Decomposition of Aryldiazo Alkyl Ethers R. Michael Paton and Rudolf U. Webe
771	Synthesis of meso-Substituted Porphyrins David Harris and Alan W. Johnson
771	Novel Method for the Investigation of the Electrochemistry of Metalloproteins: Cytochrome c Mark J. Eddowes and H. Allen O. His
772	New β-Acylcarbanion Equivalent Based on Allyltrimethylsilane Chemistry Dorit Ayalon-Chass, Ed Ehlinger, and Philip Magnu
774	Graminin A, a New Toxic Metabolite from Cephalosporium gramineum Nisikado & Ikata Kiroku Kobayashi and Tadao U
774	Photosensitization of Superoxo-bridged Dicobalt(III) Cations by Tris-(2,2'-bipyridyl)ruthenium(II) in the Excite State K. Chandrasekaran and P. Nataraja
776	Novel Species in Ruthenium-Bipyridyl Systems R. D. Gillard and Cledwyn T. Hughe
777	Photochemistry of a Surfactant Derivative of Tris(2,2'-bipyridyl)ruthenium(II) Anthony Harriman
778	Interaction of Lanthanide Shift Reagents with Co-ordination Complexes; Direct Observation of Nuclear Magnetic Resonance Signals for Free and Complexed Tris(pentane-2,4-dionato)cobalt(III) at Ambient Temperature, an X-Ray Crystal and Molecular Structure of the 1:1 Adduct Formed Leonard F. Lindoy Hyacinth C. Lip, Hon Way Louie, Michael G. B. Drew, and Michael J. Hudson
780	Photochemical 1,3-Addition of Methanol to t-Butylbenzene Yasuji Izawa, Hideo Tomioka, Tomio Kagami, and Takashi Sat
781	Hydrogen Reduction of Co-ordinated Carbon Monosulphide in [IrH(CS)(PPh ₃) ₃] to the Methanethiolate ligand and an Iridium Thioformyl Compound [Ir(CHS)Cl ₂ (CO)(PPh ₃) ₂] Warren R. Roper and Keith G. Tow
782	Preparation and Crystal Structure of [Mn ₄ S ₄ (CO) ₁₅]; Oxidation at Sulphur of [{(CO) ₄ Mn-S-SnMe ₃ } ₂] Volker Küllmer, Erika Röttinger, and Heinrich Vahrenkam
783	Generalisation of a Theory of Compartmentalised Free-radical Polymerisation Reactions David T. Birtwistle and David C. Blackle
784	Alkali-metal Ion Acceleration of the Electron-transfer Reaction between N-Propyl-1,4-dihydronicotinamide and Ferricyanide Ion Tadashi Okamoto, Atsuyoshi Ohno, and Shinzaburo Ok
786	Circular Dichroism of the Nitrogen Chromophore in the Open-chain Secondary Amine (R)-3,3-Dimethyl-2 methylaminobutane Piero Salvadori, Carlo Bertucci, Carlo Rosini, and Raffaello Lazzaron
787	Transformations of Some Nickel Tetrahydrocorrin Tertiary Esters Dennis P. Arnold and Alan W. Johnson
789	Tris- and Tetra-perhalogenoaryl Metallates of Cobalt(II), Nickel(II), Palladium(II), and Platinum(II) Rafael Uson, Juan Forniés, Pablo Espinet, Rafael Navarro, Francisco Martinez, and Milagros Toma
790	Reaction of Tetracycline Hydrochloride with N-Chlorosuccinimide: X-Ray Crystal Structure of the Majo Product Derek H. R. Barton, Steven V. Ley, Kanji Meguro, and David J. William
791	Acylation of 2',3',5'-Tri-O-acetylguanosine Peter K. Bridson, Wojciech T. Markiewicz, and Colin B. Rees
792	Concentration Profiles in the Surface Layer on Glass Electrodes by Argon-ion Beam Sputtering Arthur K. Covington and Adrian Flyn
793	Transition Metal-catalysed Rearrangement of Allyl But-3-enoate to Hepta-2,6-dienoic or Hepta-3,6-dienoic Acid Gian Paolo Chiusoli, Giuseppe Salerno, and Franco Dallatomasin
794	Novel Germination Inhibitors from Aegilops ovata L. Raymond Cooper, Elie C. Levy, and David Lavi
795	Donor and Ligand Effects on Acetylene Reduction with Cobalt(11)-Thiol Complex Catalysts Yukio Sugiura, Takanobu Kikuchi, and Hisashi Tanak
796	Corrigenda