

Journal of The Chemical Society

Chemical Communications

7 AUGUST 1974

JCCCAT (15) 573-628 (1974)

CONTENTS

Page		
573	Addition of Free Radicals to Olefins and Homolytic Aromatic Substitution: a Comparison	Richard A. Jackson
574	Photochemical Addition of Methyl-lithium to Anthracene	Stephen S. Hixson
575	Synthesis and Specific Intramolecular C-C Coupling Reactions of Novel Hexanuclear Copper Cluster Complexes $Ar_4R_2Cu_6$	Gerard van Koten and Jan G. Noltes
576	Phenyl Ring Rotation in Metal Complexes of Tetraphenylporphyrin Derivatives	Sandra S. Eaton and Gareth R. Eaton
577	Radiation Effects in Polyethylene Films Studied by Pulse Radiolysis	G. R. Alastair Johnson and Andrew Willson
578	Platinum Dithiocarbonyl Complexes <i>via</i> Abstraction of Sulphur from Organic Isothiocyanates	Frank L. Bowden , Robert Giles , and Robert N. Haszeldine
579	Photolysis of Azacyclohexadienyl Radical and Pyridinyl Radical in an Acidic Glassy Matrix	C. Chachaty , J. C. Ronfard-Haret , A. Lablache-Combier , J. P. Quagebeur , and H. Ofenberg
580	Chromium(II) Molybdenum(II) Tetra-acetate, $[CrMo(OAc)_4]$; A Metal(II) Carboxylate with a Heteronuclear Metal-Metal Bond	C. David Garner and Roger G. Senior
581	Syntheses and Reactions of 1,1,2,2-Tetra-acylcyclopropanes	Katsuo Ohkata , Takashi Sakai , Yasuo Kubo , and Terukiyo Hanafusa
582	Reflectance Spectra of CO Chemisorbed on MgO, and Evidence for the Formation of Cyclic Adsorbed Species	Adriano Zecchina and Frank S. Stone
584	Acid-induced Conversion of Cyclohexane-1,4-diones into Monohydric Phenols	C. Gundu Rao , S. Rengaraju , and M. Vivekananda Bhatt
584	Copper(II)-Ethylene Complexes in Y Zeolite	Yun-Yang Huang and David E. Mainwaring
585	Synthesis of 3,4-Bis(chloromethyl)-1,2,5-thiadiazole: an Unexpected Chloromethylation; Contrasting Selectivity in Dihalogenations by <i>N</i> -Chlorosuccinimide and <i>N</i> -Bromosuccinimide	Ronald F. Cookson and Alan C. Richards
586	X-Ray Structural Evidence of Conjugation involving the Sulphonyl Group in Cyclic Sulphonyl Enamines	Giovanni D. Andreotti , Gabriele Bocelli , and Paolo Sgarabotto
587	Electronegatively Substituted Bicyclobutanes <i>via</i> the Cycloaddition of Trisubstituted Electron-poor Olefins to Enamines	Henry K. Hall Jun. and Pierre Ykman
588	Enantioselective Synthesis of 2-Phenylcyclopropanecarboxylates through Chiral Cobalt Chelate Complex-catalysed Carbenoid Reactions	Yoshitaka Tatsuno , Akira Konishi , Akira Nakamura , and Sei Otsuka
589	Stereospecific Contact Interactions in the Nuclear Magnetic Resonance Spectra of Polyol-Lanthanide Complexes	Stephen J. Angyal , Diane Greeves , and Victor A. Pickles
591	Selective Functionalization of Unactivated Methine Positions. 4-Acetyldiamantane	Iwao Tabushi , Shosuke Kojo , Paul v. R. Schleyer , and Tamara M. Gund
592	Dithiocarbamate Derivatives of Allyl Molybdenum Nitrosyls	Neil A. Bailey , W. George Kita , Jon A. McCleverty , Alan J. Murray , Brian E. Mann , and N. W. Joe Walker
593	Secondary Deuterium Isotope Effect in the Cycloaddition of Dimethylketene to Styrene	Neil S. Isaacs and Brian G. Hatcher
594	Biogenetically Patterned Synthesis of Procyanidins	Edwin Haslam
595	Mercury-199 Chemical Shift Anisotropy in Methyl Mercuric Bromide	John D. Kennedy and William McFarlane
596	Transannular Cyclisation of 1-Bromo-2,6-dimethylcyclohept-1(<i>E</i>),5(<i>Z</i>)-dien-9-ol	William Heggie and James K. Sutherland
597	Synthesis of α -Hydroxy- β -acetylenic Acids and their Oxidation by and Inactivation of Flavoprotein Oxidases	Thomas Cromartie , Jed Fisher , Gregory Kaczorowski , Richard Laura , Patrick Marcotte , and Christopher Walsh
598	The Uranium Tetrabromide Structure: A New MX_4 Structure Type	John C. Taylor and Paul W. Wilson

Contents—continued overleaf

Contents—continued

Page	
599	Preparation and X-Ray Molecular Structure of an Unusual Copper(I) Polynuclear Species: Tetrakis-(copper trifluoroacetate)dibenzene Paul F. Rodesiler and Elmer L. Amma
600	The Chromium Analogue of Werner's Brown Salt: Isolation of Tris[<i>cis</i> -di- μ -hydroxo-bis(ethylenediamine)-chromium(III)]chromium(III) Nitrate, $[\text{Cr}(\text{OH})_2\text{Cr}(\text{en})_2]_3(\text{NO}_3)_6, \text{aq}$ Peter Andersen and Torsten Berg
601	Reactions of Bridged Rhodium and Iridium Hydrides with Dienes and the Reductive Elimination of the Resultant η -Allylic Complexes Hing-Biu Lee and Peter M. Maitlis
602	A Novel and Convenient Conversion of 17-Keto-steroids into their 18-Nor Derivatives Maurice M. Coombs and Colin W. Vose
603	Total Synthesis of 3,14-Dihydroxyisomorphinans and 9 α -hydroxy-3-methoxyhasubanans Bernard Belleau, Henry Wong, Ivo Monkovič, and Yvon G. Perron
604	Preparation, Isolation, and Structure of $[\text{NBu}_4]^+[\mu\text{-Fe}(\text{CO})_4\text{-B}_7\text{H}_{12}]^-$; Preparation and Isolation of $\text{Fe}(\text{CO})_4\text{B}_7\text{H}_{11}$: Electrophilic Stabilization of a Heptaborane Species Orin Hollander, William R. Clayton, and Sheldon G. Shore
605	Microwave Spectrum of 1-Deuterio-1,2,3-triazole G. Ole Sørensen, Lise Nygaard, and Mikael Begtrup
606	Factors Controlling the Site of Electron-capture and the Mode of Dissociation following Molecular Electron-capture: an Electron Spin Resonance Study Shuddhodan P. Mishra, and Martyn C. R. Symons
607	Some Ring Expansion-Ring Contraction Reactions of Ethyl 4-Chloromethyl-1,2,3,4-tetrahydro-6-methyl-2-oxopyrimidine-5-carboxylate John Ashby and D. Griffiths
608	1,3-Cycloaddition of Heterocyclic Zwitterions to Dienes King-Leung Mok and Martin J. Nye
610	The Effect of Stereoelectronic Control in Proton Removal from 4- <i>t</i> -Butylcyclohexanone George B. Trimitsis and Edwin M. Van Dam
611	MINDO/3 Calculations of Molecular Electric Polarizabilities Michael J. S. Dewar, Robert C. Haddon, and Sung Ho Suck
612	Synthesis and Structural Characteristics of Planar Iridium(II) Complexes Ronald Mason, K. Mark Thomas, H. David Empsall, Steven R. Fletcher, Peter N. Heys, Eileen M. Hyde, Christopher E. Jones, and Bernard L. Shaw
614	Dimerization and Condensation of Pentane-2,4-dione by MOCl_4 [M = Mo or W] Michael G. B. Drew, Gerald W. A. Fowles, David A. Rice, and Kenneth J. Shanton
615	Sodium $[\text{NN}'\text{-Ethylenebis(salicylideneiminato)cobaltate(II)}]$, a Reversible Carbon Dioxide Carrier Carlo Floriani and Giuseppe Fachinetti
616	Reaction of Platinum Dichloride with Bromine: Two Crystal Modifications of a New Mixed Halide Viktor Bonora, Fr. Maria Jawork, and Malcolm F. Pilbrow
617	Photodecomposition of Benzoisothiazoles Mamoru Ohashi, Atsushi Ezaki, and Teijiro Yonezawa
618	Preparation of Nucleoside 3',5'-Cyclic Phosphates <i>via</i> Phosphotriester Intermediates Jacques H. van Boom, Peter M. J. Burgers, Peter van Deursen, and Colin B. Reese
619	Insoluble Resins with Mixed Carbonic-carboxylic Anhydride Functions. Preparation and Applications as Mild Selective Acylating Reagents Manvendra B. Shambhu and George A. Digenis
620	Effect of Ligands on Copper-promoted Hydride Transfer to Carbonyl Group Tetsuo Tsuda, Haruo Habu, and Takeo Saegusa
621	Selectivity in the Thermal and Photochemical Fragmentation of the Cycloadduct from Benzyne and a Mesoionic Thiazol-4-one Sho Nakazawa, Takako Kiyosawa, Kiyochi Hirakawa, and Hiroshi Kato
621	Acid-catalysed Isomerisation of a Bicyclic Diazetidine to an <i>N</i> -Amino-2-pyridone Donald Mackay and Lichin L. Wong
622	Nucleophilic Attack on Cyanofornate Induced by Co-ordination to Ruthenium Amines Steven E. Diamond and Henry Taube
623	A Stable Adduct of Sodium Ethanethiolate Attack at the C-7 Ring Carbon of 2-Ethylthiotropone: Stabilisation of a Base Adduct to an Unsubstituted Cycloheptatrienone Ring Carbon by Bivalent Sulphur Carlo A. Veracini and Francesco Pietra
624	Hydrolysis of Tellurium Hexafluoride George W. Fraser and Gordon D. Meikle
625	Models for the Methylmercury-Protein Interaction: a Comparison of the Molecular Structures of Methyl-L-cysteinatomercury(II) and Methyl-DL-methioninemercury(II) Yau S. Wong, Nicholas J. Taylor, Peter C. Chieh, and Arthur J. Carty
626	Ring Contraction of a Benzo[<i>b</i>]thiepin Derivative to a Benzo[<i>b</i>]thiophen Amareshwar Chatterjee and Bhaskar K. Sen
627	Planar Ti_2N_2 Rings with Five-co-ordinate Titanium(IV): X-Ray Structure of <i>catena</i> -Di- μ -chloro-bis- μ -(trimethylsilylamino)-di-[chlorotitanium(IV)] Nathaniel W. Alcock, Melanie Pierce-Butler, and Gerald R. Willey
627	Biomimetic Stereospecific Reduction of $\alpha\beta$ -Unsaturated Iminium Salts Upendra K. Pandit, Francisco R. Mas Cabré, Ronald A. Gase, and Margreet J. de Nie-Sarink