

Journal of The Chemical Society

Chemical Communications

4 MAY 1977

JCCCAT (9) 289–328 (1977)

CONTENTS

Page

- 289 Mechanism of the Formation of Cyclobutadiene-Palladium Chloride Complexes: the X-Ray Structures of $[Pd(bipy)\{CBu^t=CMeCMe=CBu^tCl\}Cl]$ and $[Pd_2Cl_3(\eta^4-C_4Bu^t_2Me_2)_2][Pd_2Cl_6]$
Elizabeth A. Kelly, Pamela M. Bailey, and Peter M. Maitlis
- 291 Novel Preparation of α -Alkynyl Complexes of Transition Metals by Copper(I) Iodide-catalysed Dehydrohalogenation
Kenkichi Sonogashira, Tetsuya Yatake, Yasuo Tohda, Shigetoshi Takahashi, and Nobue Hagihara
- 292 Crystal Structure of a Clathrate Formed by a Mercapto-analogue of Dianin's Compound
Andrew D. U. Hardy, David D. MacNicol, Joseph J. McKendrick, and Derek R. Wilson
- 293 Phenylsulphenyl-lactonization: an Easy and Synthetically Useful Lactonization Procedure
Kyriacos C. Nicolaou and Zenon Lysenko
- 295 Plant Antitumour Agents: Isolation and Structure of Samaderine A (X-Ray Analysis) and a New Anti-leukaemic Quassinoid Samaderine E from *Samadera indica*
Mansukh C. Wani, Harold L. Taylor, Monroe E. Wall, Andrew T. McPhail, and Kay D. Onan
- 296 Synthesis and X-Ray Structure of 6-Acetoxy-7,9-Diphenylcyclohepta[cd] isobenzofuran-2,8-dione
Andrew A. Freer, Christopher J. Gilmore, Derrick M. Mant, and John McCormick
- 297 Intermediates in the 1 : 2-Addition of 1,1-Diethoxyethene to Quinones: Synthesis of Deoxyerythrolaccin
Donald W. Cameron, Maxwell J. Crossley, Geoffrey I. Feutrill, and Peter G. Griffiths
- 298 Ferric Chloride-catalysed Conversion of α -t-Butoxy- or α -Acetoxy-acrylonitriles into Imides
Paul M. Diamond, Stephen E. Dinizo, Robert W. Freerksen, R. Curtis Haltiwanger, and David S. Watt
- 299 Mechanism of Alkylation of Dinitrogen Co-ordinated to Molybdenum(0) and Tungsten(0)
Joseph Chatt, Robert A. Head, G. Jeffery Leigh, and Christopher J. Pickett
- 301 Nitration of *NN*-Dimethyl-*p*-toluidine. Spectroscopic Evidence for the Bulk Formation of a σ -Complex Formed by *ipso*-Attack
Kenji Fujiwara, Janet C. Giffney, and John H. Ridd
- 302 Asymmetric Synthesis of β -Lactams
Czeslaw Belzecki and Zbigniew Krawczyk
- 303 Cycloadditions of Chiral Nitrones
Czeslaw Belzecki and Irma Panfil
- 304 Kinetics of Nucleophilic Addition to Co-ordinated Cyclobutadiene
Dwight A. Sweigart and Charles N. Wilker
- 305 Raman Optical Activity due to Isotopic Substitution: [α -²H]Benzyl Alcohol
Laurence D. Barron
- 307 Metathesis of Heterocycles
Walter Mahler and Tadamichi Fukunaga
- 308 Trimethylsilyl Migration from Nitrogen to Carbon in a Silicon-Nitrogen-Phosphorus Compound
James C. Wilburn and Robert H. Neilson
- 309 Stereochemical Non-rigidity of a Metal Polyhedron; Fourier Transform Platinum-195 Nuclear Magnetic Resonance Spectra of $[Pt_n(CO)_{2n}]^{2-}$ ($n = 3, 6$, or 9)
Charles Brown, Brian T. Heaton, Paulo Chini, Alessandro Fumagalli, and Giuliano Longoni
- 311 Large-ring Complexes Formed from Diacetylene Diphosphines of the Type $Bu^t_2PC \equiv C(CH_2)_nC \equiv CPBu^t_2$ ($n = 4$ or 5); X-Ray Structure of $[IrCl(CO)\{Bu^t_2PC \equiv C(CH_2)_5C \equiv CPBu^t_2\}]$
H. David Empsall, Eric Mentzer, David Pawson, Bernard L. Shaw, Ronald Mason and Geoffrey A. Williams
- 313 Stereochemistry at C-3 of Evernitrose: a Fallacy in the Determination of Stereochemistry at Quaternary Centres using Nuclear Magnetic Resonance Spectroscopy. X-Ray Crystal Structure of Methyl 3-Acetamido-2,3,6-trideoxy-3-*c*,4-*O*-dimethyl-*L*-xylo-hexopyranoside
Ashit K. Ganguly, Olga Z. Sarre, Andrew T. McPhail, and Kay D. Onan

Contents—continued overleaf

Contents—continued

- | Page |
|---|
| 314 Stereo- and Regio-specific Vinyl Ether Synthesis by the Horner-Wittig Reaction
Chris Earnshaw, Christopher J. Wallis, and Stuart Warren |
| 315 Enantioselective Reduction of Racemic Ketones by Yeast
Robyn L. Crumbie, Damon D. Ridley, and Gregory W. Simpson |
| 316 Homolytic Aromatic <i>Ipso</i> Substitutions in Benzothiazoles by the Nucleophilic 1-Adamantyl Radical
Michele Fiorentino, Lorenzo Testaferri, Marcello Tiecco, and Luigino Troisi |
| 317 <i>Ipso</i> Substitution in the Reaction of Acyl Radicals with 2-Substituted Benzothiazoles
Michele Fiorentino, Lorenzo Testaferri, Marcello Tiecco, and Luigino Troisi |
| 318 Novel Synthesis of an ω -alkynyrlorganometallic Reagent <i>via</i> Triple Bond Isomerization with Potassium 3-Aminopropylamide: ω -(9-Borabicyclo[3.3.1]nonan-9-yl)alkl-1-yne
Charles Allan Brown and Ei-ichi Negishi |
| 319 Regiospecific Cyclisation of 1,2,3,4-Tetrahydro-1-methylene-2-nicotinoyl- β -carbolines: a Synthesis of Nauclefine
Malcolm Sainsbury and Nigel L. Uttley |
| 320 Electron Spin Resonance Study of Iminyl and Triazenyl Radicals Derived from Organic Azides
John W. Cooper, Brian P. Roberts, and Jeremy N. Winter |
| 321 Novel Oxidative Elimination in a Norbornyl Iodide
Nigel R. A. Beeley and James K. Sutherland |
| 322 Electronic Structure of Phospha-alkenes
Colin Thomson |
| 323 Adsorption of [^{14}C]Acetylene and [^{14}C]Ethylene on Supported Metal Catalysts: Relevance to the Selective Hydrogenation of Acetylene
Asad S. Al-Ammar, Samuel J. Thomson, and Geoffrey Webb |
| 325 X-Ray Evidence for Partial Bonding between Sulphur or Selenium and Oxygen in Thio- and Seleno-imines
Ana Atkinson, Andrew G. Brewster, Steven V. Ley, Ruth S. Osborn, Donald Rogers, David J. Williams, and Kwamena A. Woode |
| 326 Radical Cations in the Decomposition of Diphenyldiazomethane Induced by Copper Perchlorates
Donald Bethell, Kishan L. Handoo, Shirley A. Fairhurst, and Leslie H. Sutcliffe |
| 328 Corrigendum |