

# Journal of The Chemical Society

## Chemical Communications

2 FEBRUARY 1977

JCCCAT (3) 73-104 (1977)

### CONTENTS

#### Page

- 73 Formation of Benzoysilanes from the Reaction of Organosilylcobalt Tetracarbonyl Derivatives with Phenyl-lithium **Ernesto Colomer, Robert J. P. Corriu, and John G. Young**
- 74 Nucleophilic Substitution at Silicon: Evidence for a Parallel with Addition Reactions to  $\alpha,\beta$  Ethylenic Ketones **R. J. P. Corriu and C. Guerin**
- 75 Photorearrangements of 1-Cyanocyclohexenes. A "Type A" Process Involving the Acrylonitrile Chromophore **Carl Manning and John J. McCullough**
- 76 Reductive Silylation Reactions of Ethyl 2-Furoates **Isao Kuwajima, Kunio Atsumi, and Ichiro Azegami**
- 77 Preference for 6-*Exo*-Trigonal Closures of  $\omega$ -Hydroxy- $\alpha\beta$ -unsaturated Esters **Jack E. Baldwin and James A. Reiss**
- 78 *Litchi sinensis* Seed Oil: A Source of Dihydrosterculic Acid and *cis*-9,10-Methylenhexadecanoic Acid **Marcel S. F. Lie Ken Jie and M. F. Chan**
- 78 Stable Hydrocarbon Analogues of 9-Anthrone: Methyl Substituted 9-Alkylidene-9,10-dihydroanthracenes **Bruce F. Bowden and Donald W. Cameron**
- 79 Allyl Silanes in Organic Synthesis: a Synthesis of Prostaglandins **Boon-Wai Au-Yeung and Ian Fleming**
- 81 Allyl Silanes in Organic Synthesis: a New Synthesis of Loganin **Boon-Wai Au-Yeung and Ian Fleming**
- 81 Photo-induced Dimerization of 1-Naphthoxide Anion: a New Type of Photochemical Reaction **Tohru Kitamura, Takeshi Imagawa, and Mituyosi Kawanisi**
- 82 Anodic Decarboxylation of Dihydroaromatic Acids **Jacob Slobbe**
- 83 Crystal Structure of the Nickel Complex of 2,3,7,8,12,13,17,18-Octaethyl-1,19(21H,24H)-bilindione (Octaethylbilatriene-abc) **Joseph V. Bonfiglio, Raymond Bennett, Michael B. Hursthause, and K. M. Abdul Malik**
- 85 Stereochemistry of the Conversion of Serine and Tyrosine into Pyruvate by Tyrosine Phenol-lyase **Hidehiko Kumagai, Hideaki Yamada, Seiji Sawada, Erwin Schleicher, Kathryn Mascaro, and Heinz G. Floss**
- 86 Asymmetric Synthesis of Amines from Chiral Nitriles and Racemic Alcohols **Witold Tomaszik and Czeslaw Belzecki**
- 87 C-Alkylation of 1,5-Naphthyridine Derivatives by Methyl Iodide **S. B. Brown and M. J. S. Dewar**
- 89 High Barrier to Rotation about the Pd-N Bond in *trans*-Dichloro-dihydrazonepalladium(II) Complexes **Giovanni Natile, Lucio Cattalini, and Francesco Gasparrini**
- 90 Reactions of Sugar 1-Carbonates with Sugar Derivatives Bearing a Hydroxy-group; Novel Method for Preparation of Orthoesters Combining Two Monosaccharide Units, and Disaccharides **Yoshiharu Ishido, Shigeru Inaba, Hajime Komura, and Akira Matsuno**
- 91 Alkylation of  $\beta$ -Keto-ester Dianions with  $\alpha$ -Chloroethers **Phaik-Eng Sum and Larry Weiler**
- 92 Epimerisation and Alkylation of a  $\beta$ -Thiolactone **Stephen D. Carter and Richard J. Stoodley**
- 93 Photorearrangement of Dimethyl 9,10-Cyclopropano-9,10-dihydroanthracene-11,12-dicarboxylate **H. Hemetsberger and W. Holstein**
- 95 Gas-phase Reactions on Platinum. Mechanism of the 1,2-Bond Shift Rearrangement of Alkanes **William Burns, M. Anthony McKervey, John J. Rooney, Nicholas G. Samman, John Collins, Paul von R. Schleyer, and Eiji Ōsawa**

Contents—continued overleaf

Contents—continued

- | Page |   |
|------|---|
| 96   | Epimeric 3,3'-Dihydroxy- $\alpha,\alpha$ -carotenes from the Skin of the Yellow Costa Rican Frog, <i>Atelopus chiriquiensis</i><br><b>Alpheus Bingham, Harry S. Mosher, and A. G. Andrewes</b>  |
| 97   | The Thermal Rearrangement of Allyl- and Pentadienyl-ammonio-amidates. Evidence for Competing but Distinct Concerted and Radical Mechanisms<br><b>Kan Chantrapromma, W. David Ollis, and Ian O. Sutherland</b>   |
| 99   | Ring Expansion in a Metal-Dithiocarbamate Complex by Oxygen Insertion; Synthesis and Properties of $[\text{Cr}(\text{S}_2\text{CNR}_2)_2(\text{OS}_2\text{CNR}_2)]$ . The X-Ray Structure of Bis[ <i>NN</i> -diethyl(dithiocarbamato- <i>SS'</i> )][ <i>NN</i> -diethyl-(dithioperoxycarbamato- <i>OS</i> )]chromium(III)<br><b>Janet M. Hope, Raymond L. Martin, Donald Taylor, and Allan H. White</b> |
| 101  | Constant Selectivity in Proton Transfer Reactions to Carbon Bases in Aqueous Sulphuric Acid; the Kinetic Acidity Function $H_0^{\ddagger}$<br><b>Peter G. Taylor, C. David Johnson, and Shaaron Rose</b>  |
| 102  | Activating Effect of Metallic Palladium on the Reduction Rate of $\text{Ni}^{2+}$ Ions in an X Type Zeolite<br><b>Marie-France Guilleux, Maggy Kermarec, and Denise Delafosse</b>   |
| 103  | Corrigenda  |