JOURNAL OF THE CHEMICAL SOCIETY

PERKIN TRANSACTIONS I Organic and Bio-organic Chemistry

CONTENTS

| Addition reactions of heterocyclic compounds. Part LXIII. New structures for some 2:1 molar adducts from dimethyl acetylenedicarboxylate with thiazoles and benzo-imidazoles, -oxazoles, and -thiazoles formed by novel rearrangement. Crystal and molecular structure determinations for tetramethyl 3,8a-dimethyl-pyrido[2,1-b]thiazole-5,6,7,8-tetracarboxylate and tetramethyl 5-methylpyrido[2,1-b]thiazole-6,7,8,8a-tetracarboxylate By PATRICK J. ABBOTT, R. MORRIN ACHESON, ULLI EISNER, DAVID J. WATKIN, and J. ROBERT CARRUTHERS | 1269 |
|---|------|
| Preparation of some dibenz $[b,f]$ [1,4]oxazepines and dibenz $[b,e]$ azepines By Arthur W. H. WARDROP, GORDON L. SAINSBURY, JOHN M. HARRISON, and THOMAS D. INCH | 1279 |
| Preparation of the eight monohydroxydibenz $[b,f]$ [1,4]oxazepin-11(10H)-ones By Keith Brewster, Raymond J. Clarke, John M. Harrison, Thomas D. Inch, and David Utley . | 1286 |
| Oxidation of some dibenz $[b,f]$ [1,4]oxazepines by peracetic acid By Keith Brewster, Rosemary A. Chittenden, John M. Harrison, Thomas D. Inch, and Charles Brown | 1291 |
| Photoinduced transformations. Part XXX. Photorearrangement of (22S,25S)-N-acetylveratra-5,8,13(17)- trienine-3 β ,11 β ,23 β -triol 3,23-diacetate 11-nitrite, a fused cyclopentenyl nitrite, to two spiroisoxazolines By HIROSHI SUGINOME, TATSUO TSUNENO, NORIO SATO, NORIO MAEDA, TADASHI MASAMUNE, HIROTAKA SHIMANOUCHI, YUKIKO TSUCHIDA, and YOSHIO SASADA | 1297 |
| Photoinduced transformations. Part XXXI. Photoinduced rearrangement of (22S,25S)-N-acetyl-5α- veratra-8,13(17)-dienine-3β,11β,23β-triol 3,23-diacetate 11-nitrite to two spiro-isoxazolines By HIROSHI SUGINOME, NORIO MAEDA, and TADASHI MASAMUNE | 1312 |
| Lichens and fungi. Part XIII. Comparison of the nuclear magnetic resonance and mass spectra of 17,21- secohopane and 17,21-secoflavicane derivatives By R. EDWARD CORBETT and ALISTAIR L. WILKINS | 1316 |
| Syntheses of macrocyclic enzyme models. Part I. Preparation and properties of [20]paracyclophanes By Yukito Murakami, Yasuhiro Aoyama, Kenji Ohno, Kazuyuki Dobashi, Takashi Nakagawa, and Junzo Sunamoto | 1320 |
| Furazans and furazan oxides. Part VI. New furazano[3,4-d]pyrimidine N-oxides: preparation and structure By REMUS NUTIU and A. JOHN BOULTON | 1327 |
| Synthesis of some 1 <i>H</i> -1,3-benzodiazepines By John B. Taylor and W. Roger Tully | 1331 |
| Crystal structures of the dihydro- and 2α-hydroxydihydro-derivatives of phytuberin By DAVID L. HUGHES | 1338 |
| Preparation and properties of cage polycyclic systems. Part IV. Hydrogenolyses of homocubane derivatives By KENNETH J. TOYNE | 1346 |

| Preparation of 3β-hydroxy-5α-androstan-16-one By (Miss) Irene Ghilezan, Sir Ewart R. H. Jones, G. Denis Meakins, and John O. Miners | page 1350 |
|--|--------------|
| Assignment of ¹³ C and ¹ H resonances of methyl groups in the tri-O-methyl derivatives of methyl pentopyrano- sides; some observations on the methoxy ¹³ C chemical shifts By SAEED A. ABBAS, ALAN H. HAINES, and ALAN G. WELLS . | 1351 |
| Marine steroids. Part III. On the structure of marthasterone glucoside, from the starfish Marthasterais glacialis | |
| By Sydney H. Nicholson and Alan B. Turner | 1357 |