JCPRB4(16) 1525-1632(1975)

JOURNAL OF THE CHEMICAL SOCIETY

PERKIN TRANSACTIONS I Organic and Bio-organic Chemistry

CONTENTS

	PAGE
Stereospecific syntheses of (Z)- and (E)-4-bromomethylene-5,5-dimethyl-3-phenyloxazolidin-2-one By Christopher C. Browne and NAZIM PUNJA	1525
Solvent and ion-pair effects on the self-condensation of linear aliphatic aldehydes: selective synthesis of substituted acrylaldehydes and glycol monoesters By GIUSEPPE CASNATI, ANDREA POCHINI, GIUSEPPE SALERNO, and ROCCO UNGARO	1527
Opium alkaloids. Part XVI. The biosynthesis of 1-benzylisoquinolines in <i>Papaver somniferum</i> . Preferred and secondary pathways; stereochemical aspects By EINAR BROCHMANN-HANSSEN, CHUNG-HSIUNG CHEN, C. ROLLAND CHEN, HSÜCH-CHING CHIANG, ALBERT Y. LEUNG, and KENNETH MCMURTREY.	1531
Lewis acid-catalysed cyclisations of 1-anthryl styryl ketone; benz[de]anthracen-3-one By HUGH J. WILLIAMS and RICHARD L. HARLOW	1537
Chemical investigation of Ceylonese plants. Part XV. Extractives of <i>Kayea stylosa</i> Thw. (Guttiferae) By Sarath P. Gunasekera, Sathiadevan Selliah, and M. Uvais S. Sultanbawa	1539
Overcrowded molecules. Part XI. A doubly 'forbidden' symmetry-allowed pericyclic reaction: the thermal rearrangement of (E)-2-benzylidene-(Z)-1-mesityl(phenyl)methyleneindane into (Z)-2-benzyl-1-mesityl(phenyl)methyleneindene	1545
By JOHN S. HASTINGS, HARRY G. HELLER, HOWARD TUCKER, and (in part) KEITH SMITH	1949
Biosynthesis of phenylpropanoid compounds. Part II. Incorporation of specifically labelled cinnamic acids into eugenol By PAOLO MANITTO, PAOLA GRAMATICA, and DIEGO MONTI	1548
Microbiological hydroxylation. Part XIX. The action of an ant fungus ('Acromyrmex fungus ') on oxy- genated androstanes, pregnanes, and cholestanes By SIR EWART R. H. JONES, G. DENIS MEAKINS, JOHN O. MINERS, JOHN H. PRAGNELL, and ALISTAIR L. WILKINS	1552
Reaction of 3-methylindole with a diazonium salt By MALCOLM F. G. STEVENS	1555
Formation of Meisenheimer–Jackson complexes in a non-polar solvent By Anthony R. Butler	1557
A cis-perhydroindanone synthesis utilising an intramolecular Diels-Alder reaction By JAN J. S. BAJOREK and JAMES K. SUTHERLAND	1559
Structures of three new steroidal sapogenins from <i>Dioscorea prazeri</i> By Krishnamurthy Rajaraman, Ashok Kumar Batta, and Srinivasa Rangaswami	1560
Application of a lanthanide shift reagent, $Eu(fod)_3$ to the elucidation of the structures of flavones and related compounds	
By Masayoshi Okigawa, Nizam U. Khan, Nobusuke Kawano, and Wasiur Rahman	1563

ii Conter	nts
Synthesis and chemistry of S-acylthiol S-oxides and related compounds	page 568
A new method for the deoxygenation of secondary alcohols Ву DEREK H. R. BARTON and STUART W. McCombie	574
Cyclonerotriol [6-(3-hydroxy-2,3-dimethylcyclopentyl)-2-methylhept-2-ene-1,6-diol], a new sesquiterpenoid metabolite of <i>Fusarium culmorum</i>	~00
By JAMES R. HANSON, PETER B. HITCHCOCK, and ROBERT NYFELER	586
Photodecomposition of acetoins By Hong-Son Ryang and Hiroshi Sakurai	590
Electrocyclic reactions. Part VII. Irradiation of $3,5$ -dibromo- $2,6$ -dimethylhepta- $2,5$ -dien- 4 -one ($\alpha\alpha'$ -dibromophorone)	
By CHARLES W. SHOPPEE and YUEH-SHA WANG	595
An improved method for the preparation of monoalkylketens By COLIN C. MCCARNEY and ROBERT S. WARD	600
Preparation and properties of β-oxo-thionesters By ALEXANDER J. BRIDGES and GORDON H. WHITHAM	603
Photochemistry of bromobiphenyls: steric effects and electron transfer By NIGEL J. BUNCE, STEPHEN SAFE, and L. OCTAVIO RUZO	607
Experiments on the synthesis of tetracycline. Part XIII. Oxidation of ring A model phenols to <i>p</i> -hydroxy-cyclohexadienones	<i>a</i> 10
By Derek H. R. Barton, Philip D. Magnus, and John C. Quinney 10	610
Improved methods for the oxidation of primary and secondary alcohols Ву DEREK H. R. BARTON and CRAIG P. FORBES	614
Unconventional nucleotide analogues. Part XIII. (2S,4S)-2-hydroxymethyl- and 2-carboxy-4-(purin-9-yl)- pyrrolidines	
By Frans M. Kaspersen and Upendra K. Pandit	617
Biosynthesis of vitamin B ₆ . Incorporation of glycolaldehyde into pyridoxal By Robert E. HILL, Peter Horsewood, Ian D. Spenser, and (in part) Yoshiki Tani 10	622
Allenes. Part XXXII. A general synthesis of allenediynes from allenic bromides and butadiynyl(tri- methyl)silane and the synthesis of two natural allenes, (\pm)-octa-2,3-diene-5,7-diyn-1-ol and (\pm)-undeca-	
5,6-diene-8,10-diyn-1-ol By Phyllis D. Landor, Stephen R. Landor, and Philip Leighton	628

Contents