

JOURNAL
OF
THE CHEMICAL SOCIETY

PERKIN TRANSACTIONS I
Organic and Bio-organic Chemistry

CONTENTS

	PAGE
Mononuclear heterocyclic rearrangements. Part 10. Rearrangements in the 1,2,5-oxadiazole series By MICHELE RUCCIA, NICOLÒ VIVONA, GIUSEPPE CUSMANO, and GABRIELLA MACALUSO	589
¹³ C Nuclear magnetic resonance spectra and biosynthetic studies of xanthomegnin and related pigments from <i>Aspergillus sulphureus</i> and <i>melleus</i> By THOMAS J. SIMPSON	592
Synthesis of peptides containing 1,2,3,4-tetrahydroquinoline-2-carboxylic acid. Part 1. Absolute configurations of 1,2,3,4-tetrahydroquinoline-2-carboxylic acids and 2-substituted 1,2,3,4-tetrahydroquinolines By MARIO PAGLIALUNGA PARADISI and AURELIO ROMEO	596
Preparation of some isoindolo[2,1- <i>f</i>]phenanthridine derivatives By MUNIR AHMED and JOHN M. VERNON	601
Hydrolysis of (<i>N</i> -aryl)alkylphenylphosphinic amides in acidic solution: influence of different <i>P</i> -alkyl groups, including cyclopropyl, and of substituents in the <i>N</i> -aryl group By MARTIN J. P. HARGER	605
Terpenoids. Part 39. Total synthesis of gibberellins A ₁₅ and A ₃₇ By EIICHI FUJITA, MANABU NODE, and HITOSHI HORI	611
Photolysis of 5-iodopyrimidines in benzene or heteroarenes; a convenient route to 5-phenyl- and 5-heteroarylpyrimidines By DAVID W. ALLEN, DAVID J. BUCKLAND, BARRIE G. HUTLEY, A. CHRISTOPHER OADES, and J. BRYAN TURNER	621
Alkylation of 3,4-methylenedioxyphenol with 1-bromo-3-methylbut-2-ene and catalytic rearrangement of the resulting ethers By PAOLO PICCARDI, SILVANA MARCALETTI, ENNIO BIANCHINI, and LUIGI ABIS	624
Crown ethers as catalysts of fluoride-anion-mediated reactions in peptide synthesis. Part 1. Protection of tryptophan by benzyloxycarbonyl and 2,4-dichlorobenzyloxycarbonyl groups By YAKIR S. KLAUSNER and MICHAEL CHOREV	627
Photochemical transformations. Part 34. Structures of the toxisterols ₂ By ANTHONY G. M. BARRETT, DEREK H. R. BARTON, RICHARD A. RUSSELL, and DAVID A. WIDDOWSON	631
Synthesis of derivatives of methyl 2,6-dideoxy-4- <i>O</i> -methyl- α -D- <i>ribo</i> -hexopyranoside: on the structure of variose By JOHN S. BRIMACOMBE, ANNALEE S. MENGECH, and LESLIE C. N. TUCKER	643
Formation of optically active 1,2,4-triazoles from the reactions of optically active <i>N</i> -arylmandelamidrazones with trialkyl ortho esters or aldehydes By JOHN K. FRASER, DOUGLAS G. NEILSON, KATHLEEN M. WATSON, and (in part) JAMES W. M. HEATLIE	646
Synthesis and electron spin resonance of 3-oxy-1,3-diazacyclohexene 1-oxide (1,3-nitrone-nitroxide) radicals By SIOBHAN NÍ GHRIOFA, RAPHAEL DARCY, and MICHAEL CONLON	651

	PAGE
Caldariellaquinone, a unique benzo[<i>b</i>]thiophen-4,7-quinone from <i>Caldariella acidophila</i> , an extremely thermophilic and acidophilic bacterium By MARIO DE ROSA, SALVATORE DE ROSA, AGATA GAMBACORTA, LUIGI MINALE, RONALD H. THOMSON, and ROGER D. WORTHINGTON	653
Partial protection of carbohydrate derivatives. Part 1. Specific <i>N</i> -debenzoylation of fully benzoylated adenosine and cytidine with phenols and alcohols; active <i>N</i> -benzoyl groups By YOSHIHARU ISHIDO, NOBUO NAKAZAKI, and NOBUO SAKAIRI	657
Base-catalysed Neber-type rearrangement of glucosinolates [1-(β -D-glucosylthio)- <i>N</i> -(sulphonato-oxy)alkylideneamines] By PALLE FRIIS, PEDER OLESEN LARSEN, and CARL ERIK OLSEN	661
Reactions of a mono- and a tri-substituted epoxide with some simple and β -substituted primary amines; novel examples of electrophilic anchimeric assistance By DAVID R. BURFIELD, SENG-NEON GAN, and ROGER H. SMITHERS.	666
Studies in azole chemistry. Part 2. Nitration of 1,4,5-trimethylimidazole 3-oxide and 1-methylpyrazole 2-oxide, and some reactions of the products By IAN J. FERGUSON, KENNETH SCHOFIELD, and (in part) JAMES W. BARNETT and M. ROSS GRIMMETT	672
Chlorination and chloriodination of acetylenes with copper(II) chloride By SAKAE UEMURA, HAJIME OKAZAKI, AKIRA ONOE, and MASAYA OKANO.	676
Stability of the dilithium salts formed by the reaction of organolithium derivatives with lithium salts of aromatic carboxylic acids By PHILIP HODGE, GORDON M. PERRY, and PAUL YATES.	680
Isolation and structure of coprine, the <i>in vivo</i> aldehyde dehydrogenase inhibitor in <i>Coprinus atramentarius</i> ; syntheses of coprine and related cyclopropanone derivatives By PER LINDBERG, ROLF BERGMAN, and BÖRJE WICKBERG	684
Reactions of 6a,11a-dihydro-6 <i>H</i> -benzofuro[3,2- <i>c</i>]benzopyran By PETER J. M. GUNNING, PHILIP J. KAVANAGH, MARY J. MEEGAN, and DERVILLA M. X. DONNELLY	691
Steric limits to ester alkylation; synthesis of highly hindered esters <i>via</i> hexamethylphosphoramide-favoured enolization By JOHN ANTHONY MACPHEE and JACQUES-EMILE DUBOIS	694
Conversion of bicyclic $\alpha\alpha$ -dichlorocyclobutanones into monocyclic β -formyl esters and bicyclic cyclopropanes with silver tetrafluoroborate By AHMED K. YAGOUB, GEORGE M. ISKANDER, and FRANK STANSFIELD	697
Synthesis of cholestanes containing an oxygenated 14 α -methyl group By MARIO ANASTASIA, ALBERTO FIECCHI, GIULIANA CIGHETTI, and GIOVANNI GALLI	700
Synthesis of doryanine and related isoquinolones and isocoumarins By VASANT H. BELGAONKAR and RAMESH N. USGAONKAR	702
Biosynthesis of boldine (1,10-dimethoxy-6 α -aporphine-2,9-diol) By DEWAN S. BHAKUNI, SHOBHA TEWARI, and RANDHIR S. KAPIL	706
Resolution of 2,3-dihydrosqualene-2,3-diol, 10,11-dihydro-10,11-dihydroxyfarnesyl benzoate, and 6,7-dihydro-6,7-dihydroxygeranyl benzoate. Synthesis of (3 <i>R</i>)- and (3 <i>S</i>)-2,3-epoxy-2,3-dihydrosqualene By ROBIN B. BOAR and KATHLEEN DAMPS	709