Journal of Chemical Research, Issue 11, 1990

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- 343 Rhodium-catalysed Reaction of Methyl Diazoacetoacetate with 5-(p-Methoxyphenyl)-1,3,4-oxathiazol-2-one; Isolation and Crystal Structure of Methyl 2-(p-Methoxyphenyl)-6-methyl-1,4,3-oxathiazine-5-carboxylate Alexander J. Blake, Peter A. Brownsort, Ian Gosney and R. Michael Paton

 344 Reactions of Carbonyl Compounds in Basic Solutions. Part 16.1 The Alkaline Hydrolysis of 3-Phenylacetamido-1,4-diphenyl-
- (M 2682) azetidin-2-one and an H₋ Acidity Function for Amides; the Ionisation of Benzanilides Keith Bowden and Keith Bromley
- 345 Synthesis of Benzoate Salts of Alkyl 4-Amino-2,6-diaryl-1,2,5,6-tetrahydropyridine-3-carboxylates *via* 5-Alkoxycarbonyl-2,4-(*M* 2712) diaryl-6-methyl-1,2,3,4-tetrahydropyrimidinium Benzoates Conor N. O'Callaghan and T. Brian H. McMurry
- 346 Photolysis of Diethyl(triphenylmethyl)amine and Diethyl(triphenylsilyl)amine Min Shi, Yoshiki Okamoto and Setsuo (M 2616) Takamuku
- 348 Solvent Extraction of Lanthanoid Picrates with Benzocrown Ethers: Enhanced Cation Selectivities Kazuharu Nakagawa, (M 2625) Yoshihisa Inoue and Tadao Hakushi
- 350 Synthesis of Pyrazolo[a]acridin-9(10H)-ones **Gérard Boyer, Jean-Pierre Galy, Robert Faure, José Elguero** and **Jacques** (M 2601) **Barbe**
- 352 Preparation of Some Steroidal Thiazolethiones and Thiazolidinethiones S. Mahmoud Ali, David Clarke, Geoffrey R. Cliff and (M 2638) George A. Morrison
- New Ylidene-substituted Oxazolo[3,2-d][1,2,4]triazines and X-Ray Crystal Structure of the Ring System: the Reaction of Substituted 2,3-Dihydro-1,2,4-triazines with Dimethyl Acetylenedicarboxylate Richard N. Butler, J. Paul Duffy, Patrick McArdle and Desmond Cunningham
- 356 Acid-catalysed Ring Opening of α-Bis(methylthio)-methylenealkyl Cyclopropyl Ketones: a Novel Approach to Substituted (M2728) Cyclopentanones Biswajit Deb, Hiriyakkanavar IIa and Hiriyakkanavar Junjappa
- 358 Simple (R) Chirally Induced Syntheses of (+)-(2E,4E,8Z)-Ethyl 6-Tetrahydropyranyloxytetradeca-2,4,8-trienoate, a Prosynthon (M2759) C-14 for LTB₄ Paolo Leggeri, Marcello Di Giacomo, Ornella Azzolina, Dina Vercesi and Demetrio Pirillo
- 360 Addition Reactions of Acetylenic Esters upon 6-Substituted-α-tetralone Ketoximes and Conversion of the Adducts into 4,5-(M 2777) Dihydro-1H-benz[g]indoles **Gérard Aimè Pinna, Maria Antonietta Pirisi** and **Giuseppe Paglietti**
 - 362 2-Acetyl-3-methylbenzothiazolium Trifluoromethanesulphonate and its Rearrangement into 2-Hydroxy-2,4-dimethyl-2*H*-1,4-(—) benzothiazin-3(4*H*)-one **Terence C. Owen** and **Gurinder J. S. Doad**
 - 364 The First Example of a Propeller Thio Crown
 - (-) Kenneth I. Kinnear, Joyce C. Lockhart and Susan Dodsworth
 - Stereoselective Epoxidation of Stigmasterol and Pregnenolone to give 5β , 6β -Epoxides Lydia R. Galagovsky and Eduardo G. (—) Gros
 - 368 Reaction of Steroidal α-Bromoketones with 2-Aminopyridine **Mohammad Mushfiq, Nadeem Iqbal, Geetesh Mudgal** and (—) **Dilshad Ahmad**
 - 370 Potentiometric and Spectroscopic Studies on the Co-ordination Ability of Copper(II) to 2-Amino-2-(2,3-Dideoxy-β-D-erythro-hex-2-enopyranosyl)propionic Acid Malgorzata Jezowska-Bojczuk, Patrick Decock, Lino Colombo and Giovanni Micera
 - Reactions of 1,2- and 1,4-Dimethylquinolinium lodides with Methyl lodide under Phase-Transfer Conditions

 Goldberg, Edvards Liepins and Edmunds Lukevics

 Izolda Segal, Yuri
 - Purines, Pyrimidines and Imidazoles. Part 65.¹ Novel Synthesis of Some Dihydrouracil-5-carboxamidines **Demetrios C.**(—) **Agathocleous, Hussieny H. Moharram** and **Gordon Shaw**
- 376 A New Synthesis of (R)-GABOB and (R)-Oxiracetam
- (M 2701) Mario Orena, Gianni Porzi and Sergio Sandri

N.B. The numbers in parentheses, prefaced by M, indicate the first frame occupied by the *full-text version* of the paper in J. Chem. Research (M). Where no such number is given, the paper as published in J. Chem. Research (S) is complete in itself, and there is no extra material in Part M.

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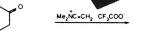
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Deprotonation by lithium diisopropylamide at low temperature gives the unstable azomethine ylide, which undergoes 1,3-dipolar addition even with unactivated alkenes, to give pyrrolidines: *J.Chem.Soc.,Chem.Commun.*, 31 (1983):



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Compare also N-methylmorpholine-N-oxide, 5957, p.710.

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Conjugate addition of cis-alkenylzirconium reagents, from the hydrozirconation of alkynes, to Michael acceptors, with retention of configuration: *J.Am.Chem.Soc.*, **102**, 1333 (1980).

Coupling of Grignard reagents to give biaryls: *J.Org.Chem.*, **41**, 2252 (1976). Coupling of Grignard reagents with silyl enol ethers of both aldehydes and ketones, to give alkenes. In contrast to dichlorobis(triphenylphosphine)nickel, 0369, p.335, this reagent gives the thermodynamically more stable alkene: *Tetrahedron Lett.*, 3915 (1980):

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