Journal of Chemical Research, Issue 5, 1989

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- 115 Addition of 2-Methylbenzothiazole to Methyl Propiolate: Mechanism of Azepine Formation Roy M. Letcher, Kung-Kai (M 1175) Cheung, and Della W. M. Sin
- 116 The Regioselectivity of Lithiations in the Synthesis of Methoxymethylthiobenzaldehydes Fiona M. Bevan, Melvin R. Euerby, (M 0901) and Shaun J. Qureshi
- 118 An X-Ray Crystallographic Study of Electron Delocalisation in 5-Methoxymethylene-, 5-Methylthiomethylene-, and 5-Methyl(M 0921) aminomethylene-Meldrum's Acid Derivatives Alexander J. Blake, Gordon A. Hunter, and Hamish McNab
- 120 Cyclic Organophosphorus Compounds. Part 22. The Stereochemistry of Displacement of Chlorine in Diastereoisomeric 2-Chloro(M 0944) 4-isopropyl-5,5-dimethyl-1,3,2λ⁵-dioxaphosphorinanes by Aryloxide Anions. X-Ray Molecular Structure of cis-4-Isopropyl5,5-dimethyl-2-phenoxy-1,3,2-dioxaphosphorinane 2-Oxide Ronald S. Edmundson and (the late) Trevor J. King
- 122 Cyclic Organophosphorus Compounds. Part 23. Configurational Assignments in the 4-Phenyl-1,3,2λ⁵-dioxaphosphorinane (*M* 0976) Series. *X*-Ray Molecular Structure of *cis*-2-Benzylamino-4-phenyl-1,3,2-dioxaphosphorinane 2-Oxide **Ronald S**. **Edmundson, lan Forth,** and (the late) **Trevor J. King**
- 124 A Thiophene Analogue of Praziquantel, and Related Systems, by Intramolecular Cyclisation of Acylinium Salts Otto Meth(M 1001) Cohn, Rup Rani Vij, Robert K. Smalley, and Robert Bass
- 126 Reactivity of 2*H*-Pyrroles towards Acetylene Carboxylic Esters and Phenyl Isocyanate: Selective Nucleophilic Addition Reactions (*M* 1019) **Pierre Mison, Abdelhamid Eddaif,** and **Abbes Boukhari**
- 128 Concentration Effects of Hydrogen Fluoride in Pyridine on the Regioselectivity of Fluorination of Benzylic Alcohols (M 1056) Abderrahman Dahbi, Sylvain Hamman, and Claude G. Béguin
- 130 Preparation of N-Silyl-enamines from α -Silyl Carbanions and Aromatic Nitriles **Takeo Konakahara** and **Yoshihiro** (M 1068) **Kurosaki**
- New Secoditerpenes from *Salvia texana*. Transformations of 6,7-Secoabietanes in Basic Medium and their Possible Formation (*M* 1101) via Oxygen Singlet Participation Antonio G. González, Zahira E. A. Castro, Javier G. Luis, and Angel G. Ravelo
- 134 Homochiral Fluoro-organic Compounds. Part 10. A New Protocol for the Synthesis of Variously Functionalized α -Fluoro-ketones (M 1115) and α -Fluoro-alcohols **Pierfrancesco Bravo, Elena Piovosi,** and **Giuseppe Resnati**
- 136 Electrochemical Reduction of Organic Compounds. Part 11. Synthesis of Dispirobicyclobutanes **Thomas Strelow, Jürgen** (*M* 1148) **Voss,** and **Gunadi Adiwidjaja**
- 138 Syntheses, Spectroscopic Characterization, and Acid-Base Equilibrium Studies of a Dihydroxynaphthalene Derivative Rosa (M 1162) Alonso, Esther Domínguez, Rosa Jiménez, Concepción Laborra, Javier Martínez, and Francisca Vicente
 - Ring-opening Reaction of the 1,3-Diazetidine Ring by the Action of Thiobenzamide: Synthesis of [1,3,4]Thiadiazolo[2,3-c][1,2,4]triazine Derivatives Pedro Molina, Mateo Alajarin, and Carmen Lopez-Leonardo
 - 142 New Iodanes derived from Diaryliodonium Salts and Some Sulphur Nucleophiles
 - (-) Elvira Kotali and Anastasios Varvoglis
 - 144 Exciton Split Cotton Effect of Dimeric Procyanidins
 - (-) William Gaffield, L. Yeap Foo, and Lawrence J. Porter
 - Dissymmetrical Photodimerization of Anthracenes: a New Example related to the Conformation Properties of the Silicon Hinge (—) linking the Two Chromophores Jean-Pierre Desvergne, Najib Bitit, Jean-Paul Pillot, and Henri Bouas-Laurent
 - 148 Hydrogen-bonding Basicity of Acetamidines and Benzamidines
 - (-) Ewa D. Raczyńska and Christian Laurence
 - 150 Acidity of Indolecarboxylic Acids in Methanol-Water Mixtures
 - (—) M. A. Muñoz, M. Balon, J. Hidalgo, and M. C. Carmona
 - 152 Chemoselective Deprotection of 1-O-Acyl Sugar Derivatives Grzegorz Grynkiewicz, Izabela Fokt, Wiesław Szeja, and (—) Hanna Fitak

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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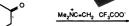
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o, is converted to the Mannich reagent, N,N-acetate, an excellent reagent for the α-dimethylail.Soc.Chim.Fr., 2707 (1970). Compare dimethyl-31, p.423:



CH₂NMe₂

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):

42%

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250a

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30.40

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):

PhMgBr

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