Journal of Chemical Research, Issue 4, 1990

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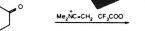
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A, is converted to the Mannich reagent, N,N-acetate, an excellent reagent for the α -dimethyl-ill. Soc. Chim. Fr., 2707 (1970). Compare dimethyl-31, p.423:



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.

7854

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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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JAPAN

Hydrus Chemical Inc.
Tomitaka Bldg. 8-1
Uchikanda 2-chome
Chiyoda-ku,
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Telephone: (03) 258-5031
FAX: (03) 258-6535
Telex: 2324032 (Hydrus J)

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