

Journal of Chemical Research, Issue 3, 1991

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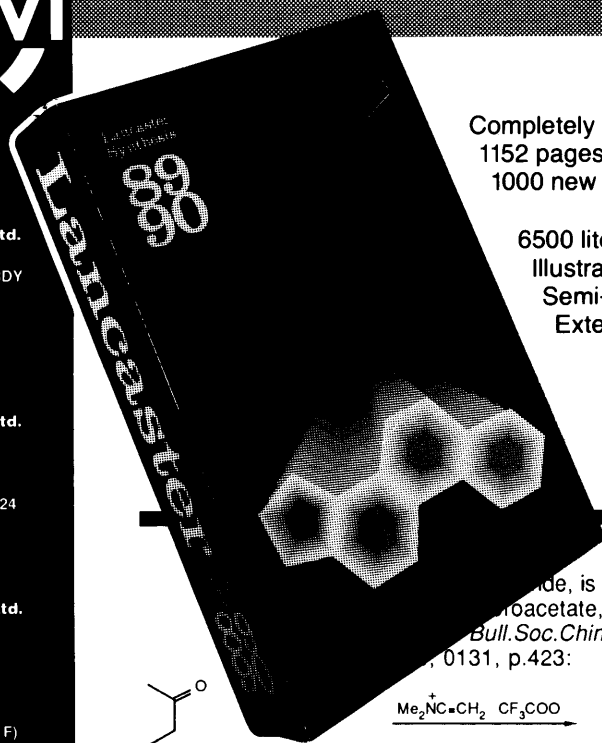
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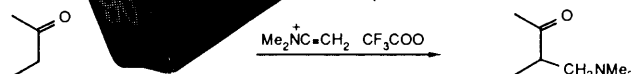
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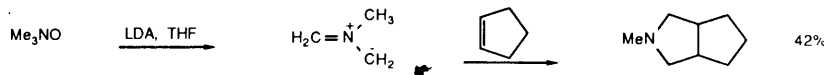


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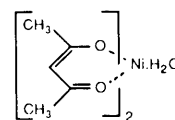
Deprotonation by lithium diisopropylamide at low temperature gives the unstable azomethine ylide, which undergoes 1,3-dipolar addition even with unactivated alkenes, to give pyrrolidines: *J.Chem.Soc., Chem. Commun.*, 31 (1983):



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

Nickel acetylacetonate hydrate

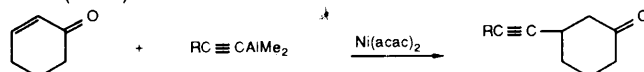
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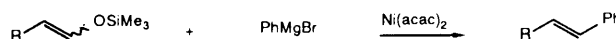
Conjugate addition of alkynylaluminium reagents to enones: *J.Am.Chem.Soc.*, 100, 2244 (1978):



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, this reagent gives the thermodynamically more stable alkene: *Tetrahedron*, 36, 1025 (1980):



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