Zirconium-Mediated Synthesis of Pyrroles

Significance: Liu and co-workers report the direct insertion of nitriles into zirconocene 1-aza-1,3-diene complexes for the synthesis of variously substituted N–H and N-substituted pyrroles in high yields.

Comment: The outcome of the reaction is determined by different cyclization patterns that depend on the relative stability and reactivity of the enamine–imine tautomers that are formed upon hydrolysis of the diazazirconacycles.

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Synfacts 2015, 11(1), 0078 Published online: 15.12.2014
DOI: 10.1055/s-0034-1379648; Reg-No.: P15314SF