Addition of Organometallic Nucleophiles (Carbonylmetallates) to the Allyl Ligand of \([\eta^3\text{-C}_3\text{H}_5\text{Pd(}\mu\text{-Cl})]_2\).

Synthesis and Structure of 
\((\eta^3\text{-C}_3\text{H}_5)\text{Mn(CO)}_3\text{PEt}_3\)

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Z. Naturforsch. 2011, 66b, 861–864; received May 16, 2011

Dedicated to Professor Bernhard Lippert on the occasion of his 65th birthday

The reaction of the organometallic nucleophile \([\text{Mn(CO)}_4\text{-PEt}_3]^-\) at the allyl ligand of \([\eta^3\text{-C}_3\text{H}_5\text{Pd(}\mu\text{-Cl})]_2\) proceeds by allyl transfer from Pd(II) to Mn(–I) to give \([\eta^3\text{-C}_3\text{H}_5\text{-Mn(CO)}_3\text{PEt}_3]\), of which the structure has been determined by X-ray diffraction.

Key words: Allyl, Carbonyl, Palladium, Manganese, X-Ray Structure Determination