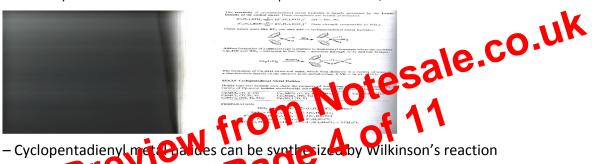
- Cyclopentadienyl metal hydrides can react in 3 different ways
- 1. Protonation, governed by the Lewis basicity of the central metal



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2. Using Lewis acids like BF, which can add to cyclopentadienyl metal halides

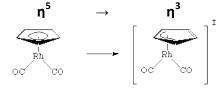
3. Adduct formation, when moieties associate through hydride bridges. The formation of Cp₂MH units which then dimerize in various ways is a characteristic feature of electron-poor metallocenes, where the number of valence electrons is less than 16





Cyclopentadienyl metal halides can react to form Cp-metal alkyls/Cp-metal aryls:





Ring Slippages

Cp rings can move from being pentahapto (bound 5 carbons) to being trihapto (bound through 3 carbons).