Synthesis and Reactivity of Cyclopentadienyl and Indenyl Ligands Bearing $\omega$-Fluorinated Pendant Groups.

Crystal Structure of ($ortho$-F-C$_6$H$_4$)-CPh$_2$-C$_5$H$_4$SiMe$_3$

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Half-Sandwich Complex, Intra-molecular Stabilisation, Transmetallation

A series of cyclopentadienes and indenes with $\omega$-fluorinated pendant groups have been synthesised and their reactivity towards metallating agents $n$-BuLi, NaH, TIOEt, Me$_3$SiCl, Me$_3$SnCl, TiHal$_4$, ZrX$_4$ ($X = $ Cl, NMe$_2$) has been investigated. The crystal structure of 1-trimethylsilyl-3-(diphenyl-$ortho$-fluorophenyl-methyl)-cyclopentadiene (3) was determined.