

Deca(4-methylbenzyl)ferrocen und -stannocen

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Cyclopentadiene reacts with five equivalents of 4-methylbenzylalcohol (1:5,6 mole ratio) and sodium yielding penta(4-methylbenzyl)cyclopenta-2,4-diene (**1**), which upon treatment with butyl lithium affords the lithium salt $[(4\text{-MeC}_6\text{H}_4\text{CH}_2)_5\text{C}_5]\text{Li}$ (**2**). The reactions of **2** with FeCl_2 and SnCl_2 result in the formation of deca(4-methylbenzyl)ferrocene (**3**) and deca(4-methylbenzyl)stannocene (**4**), respectively. The ^1H and ^{13}C NMR, IR and mass spectra of the new compounds as well as the single crystal X-ray structure analysis of **1** are reported and discussed.

Key words: Cyclopentadiene, Ferrocene, Stannocene