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Transition-Metal Complexes with P--H Functionalized Phosphinoalkylcyclopentadienyl Ligands

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TRANSITION-METAL COMPLEXES WITH P–H FUNCTIONALIZED PHOSPHINOALKYLCYCLOPENTA- DIENYL LIGANDS

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The ferrocene derivatives $rac\text{-[Fe}\{(\eta^5\text{-C}_5\text{H}_4)\text{CMe}_2\text{PHR}\}_2]$ [R = Ph (**1**), Mes (**2**)], with PH functionalized phosphinoalkylcyclopentadienyl ligands are obtained from anhydrous FeCl_2 and $\text{Li}[(\text{C}_5\text{H}_4)\text{CMe}_2\text{PHR}]$.¹ With $[\text{Cp}^*\text{TaCl}_4]$ the trinuclear complex $[\text{Fe}\{(\text{C}_5\text{H}_4)\text{CMe}_2\text{PPh}(\text{Cp}^*\text{TaCl}_4)\}_2]$ (**3**) (Figure 1) is formed.¹

When CrCl_3 is treated with $\text{Li}[(\text{C}_5\text{H}_4)\text{CMe}_2\text{PHR}]$, the constrained geometry complex $[\text{CrCl}\{(\text{C}_5\text{H}_4)\text{CMe}_2\text{PPh}\}]_2$ (**4**) is obtained (Figure 2). **1–4** were structurally characterized.

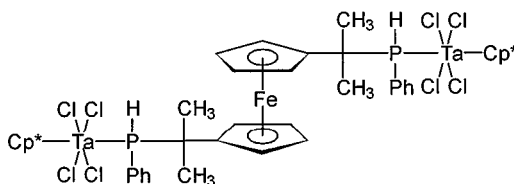


FIGURE 1

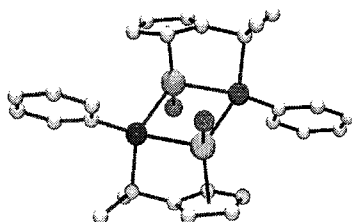


FIGURE 2

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