

Inclusion compounds of half-sandwich complexes of iron with cyclodextrins:

Unprecedented laminar structures

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The treatment of α - and β -cyclodextrins with the half-sandwich complexes of iron, afford the inclusion compounds $\text{CpFe}(\text{L}_2)\text{A}\cdot\text{CD}$ (α and β) ($\text{A} = \text{Cl}, \text{I}$), $\text{L}_2 = \text{dppe}, (\text{CO})_2$, $\text{dppe} = \text{Ph}_2\text{P}(\text{CH}_2)_2\text{PPh}_2$, $[\text{CpFe}(\text{L}_2)\text{L}]\text{PF}_6\cdot\text{CD}$ (α - and β -) $\text{L}' =$ neutral donor ligands and $[(\text{CpFe}(\text{dppe}))_2\cdot\alpha\text{-CN}]\text{PF}_6\cdot 2\text{CD}$ (α and β)- The inclusion compounds $[\text{CpFe}(\text{dppe})\text{NCCH}_3]\text{PF}_6\cdot\alpha\text{-CD}$ and $[\text{CpFe}(\text{dppe})(\eta^1\text{-dppm})]\text{PF}_6\cdot\alpha\text{-CD}$ present a laminar structure.