



Rhodium hydride ($\text{HRh}(\text{CO})\text{PPh}_3)_3$ and rhodium carbonyl ($\text{Rh}_4(\text{CO})_8\text{L}_4$) complexes obtained by reaction of $\text{Rh}(\text{acac})(\text{CO})(\text{L})$ type complexes with methanol and formaldehyde.

Autorzy

Anna M. Trzeciak

Józef J. Ziółkowski

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Rhodium(I) complexes of $\text{Rh}(\text{acac})(\text{CO})(\text{L})$ type (where $\text{L} = \text{P}(\text{OMe})_3$, $\text{P}(\text{OEt})_3$, $\text{P}(\text{OPh})_3$, $\text{P}(\text{O}-o\text{-MeC}_6\text{H}_4)_3$, PPh_3 , $\text{P}(p\text{-MeC}_6\text{H}_4)_3$, PMePh_2 , AsPh_3) react with alcohols and formaldehyde. In absence of free ligand (L) only carbonyl complexes of formula $\text{Rh}_4(\text{CO})_8(\text{L})_4$ (or $\text{Rh}_4(\text{CO})_{12-x}(\text{L})_x$) are formed. Reaction of $\text{Rh}(\text{acac})(\text{CO})(\text{PPh}_3)$ with methanol or formaldehyde in the presence of free PPh_3 leads to the formation of $\text{HRh}(\text{CO})(\text{PPh}_3)_3$ only.

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