



Orthometallation reactions of tris(*p*-methoxyphenyl)phosphine with dirhodium(II) tetraacetate.

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Streszczenie

Reactions of dirhodium(II)tetraacetate $[\text{Rh}_2(\text{OAc})_4]$ with tris(*p*-methoxyphenyl)phosphine (PMP) at 1:1 and 1:2 molar ratios yield, first appropriate adducts: $[\text{Rh}_2(\text{OAc})_4\text{P}(\text{p-CH}_3\text{OC}_6\text{H}_4)_3]$ (**1a**) and $[\text{Rh}_2(\text{OAc})_4\{\text{P}(\text{p-CH}_3\text{OC}_6\text{H}_4)_3\}_2]$ (**2a**), and then orthometallated $[\text{Rh}_2(\text{OAc})_3\{\mu\text{-(p-CH}_3\text{OC}_6\text{H}_3)\text{P}(\text{p-CH}_3\text{OC}_6\text{H}_4)_2\}(\text{HOAc})_2]$ (**1**) and $[\text{Rh}_2(\text{OAc})_2\{\mu\text{-(p-CH}_3\text{OC}_6\text{H}_3)\text{P}(\text{p-CH}_3\text{OC}_6\text{H}_4)_2\}_2(\text{HOAc})_2]$ (**2**) complexes, respectively. They have been characterized by spectroscopic methods. The molecular structure of **1** has been determined by the X-ray methods. Crystal data: space group $P1^-$, $a=11.085(5)$, $b=11.387(5)$, $c=13.900(6)$ Å, $\alpha=97.29(3)$, $\beta=105.23(3)$, $\gamma=91.93(3)^\circ$. In this compound The Rh–Rh distance is 2.421(1), Rh–P bond length 2.196(2) and Rh–C 1.965(5) Å. Lengths of bonds between rhodium atoms and oxygen atoms of acetato bridges are between 2.021(3) and 2.203(3) Å.

Słowa kluczowe

Dirhodium(II) tetraacetate, Tris(paramethoxyphenyl)phosphine,
Orthometallation

Adres publiczny

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