Orthometallation of tris(3-sodium sulfonatophenyl)phosphine with dirhodium(II) acetate.

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Streszczenie

Tetraacetatodirhodium(II) reacts with tris(3-sodium sulfonatophenyl)phosphine (TPPTS)giving [Rh2(Ì-OOCCH3)3{Ì-(3-NaO3SC6H3)P(C6H4SO3Na-3)2}(HOOCCH3)],6H2O(1) and [Rh2(Ì-OOCCH3)2{Ì-(3-NaO3SC6H3)P(C6H4SO3Na-3)2}2(HOOCCH3)],12H2O(2). Their structuresand properties have been studied by electronic, IR, and31P{1H},1H,1H{31P}, and13C{1H}NMR spectroscopies. In compound1, one of the acetate bridges is replaced by a phosphineligand, orthometalated via the C2carbon atom of the phenyl ring. One axial site of theRh24+core is occupied by a sulfonato group of the metalated ring and another one by a labilemolecule of acetic acid.1H NMR spectroscopy shows that chemical shifts of the aromaticprotons depend on the nature of the axial ligands. Compound2contains two orthometalatedmolecules of TPPTS with a head-to-head structure, and one of these ligands is metalatedvia the C2atom and another one via C6.

Adres publiczny

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https://www.acs.org/content/acs/en.html