

New complexes [CpFe(dppe)thiophenes]PF₆

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The reactions of CpFe(dppe)I with thiophenes in the presence of T1PF₆ afforded the new complexes [CpFe(dppe)thiophenes]PF₆ (thiophenes = thiophene, 2-methyl-thiophene, 3-methyl-thiophene, 2,5-dimethyl-thiophene, benzothiophene and dibenzothiophene). They were characterized by elemental analysis, IR, ¹H, ³¹P and ¹³C NMR as well as by UV-visible spectroscopic methods. Substitution of coordinated thiophenes in [CpFe(dppe)thiophene]PF₆ complexes by neutral ligands occurs in mild conditions. Copyright © 1996 Elsevier Science Ltd.