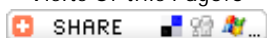




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## Research Details :

Research Title : Synthesis and spectroscopic studies of complexes containing the Schiff base 1-acetylferrocene(thio)s  
Synthesis and spectroscopic studies of complexes containing the Schiff base 1-acetylferrocene(thio)s

Descriptipn : [RuCl<sub>2</sub>(CO)(2)](n) reacts with the Schiff base 1-acetylferrocenethiosemicarbazone, [Fe(eta-Cp)(eta-C(5)H(4)MeC=NNHCSNH<sub>2</sub>)] to give [Fe(eta-Cp)(eta-C(5)H(4)MeC=NNHCSNH<sub>2</sub>)RuCl<sub>2</sub>(CO)(2)] and with 1-acetylferrocenesemicarbazone [Fe(eta-Cp)(eta-C(5)H(4)MeC=NNHCONH<sub>2</sub>)] to give [Fe(eta-Cp)(eta-C(5)H(4)MeC=NNHCONH<sub>2</sub>)RuCl<sub>2</sub>(CO)(2)]. Spectroscopic data indicate that the Schiff bases act as bidentate ligands and coordinate to ruthenium via the hydrazinic N and either the S or O atoms, respectively, giving stable heterobimetallic complexes, which have been characterized by i.r. and H-1-n.m.r. spectroscopies, and elemental analyses.

Research Type : Article  
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