

Synthesis, crystal structure and characterization of 3-thiophene aldehyde thiosemicarbazone and its complexes with cobalt(II), nickel(II) and copper(II)

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Auteur	Alomar, Kusai [1], Khan, Mustayeen Ahmed [2], Allain, Magali [3], Bouet, Gilles [4]
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R�sum� en anglais	The reaction of cobalt(II), nickel(II), copper(II) chlorides and bromides with 3-thiophene aldehyde thiosemicarbazone (3TTSCH) leads to the formation of a series of new complexes: [Co(3TTSC)2], [Ni(3TTSC)2], [CuCl(3TTSC)]2, [CuBr(3TTSC)]2 and [CuBr2(3TTSCH)]. The crystal structures of the free ligand and of the compound [Ni(3TTSC)2] have been determined by X-ray diffraction methods. For all these complexes, the central ion is coordinated through the sulfur and the azomethine nitrogen atom of the thiosemicarbazone. [Co(3TTSC)2], [Ni(3TTSC)2] and [CuBr2(3TTSCH)] are mononuclear species, while [CuCl(3TTSC)]2 and [CuBr(3TTSC)]2 are binuclear complexes.
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