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Title:	Ni(II) and Mn(II) complexes of NNS tridentate ligand N'-[(2-methoxyphenyl)carbonothioyl]pyridine 2-carbohydrazide (H 2mcph): Synthesis, spectral and structural characterization
Authors:	Singh, Sanjay (/jspui/browse?type=author&value=Singh%2C+Sanjay)
Keywords:	Crystal structure Ni(II) and Mn(II) complexes Thiocarbohydrazide
Issue Date:	2010
Publisher:	Elsevier B.V.
Citation:	Polyhedron, 29 (8), pp. 1939-1945.
Abstract:	The ligand N'-[(2-methoxyphenyl)carbonothioyl]pyridine-2-carbohydrazide (H2mcph), having NNS donor sequence, has been found to form [Ni(Hmcph)2]·CH2Cl2·0.5C6H6 and [Mn(Hmcph)2]·2H2O which have been characterized by spectroscopic and spectrometric techniques including magnetic susceptibility measurements and single crystal X-ray of both complexes. The compounds crystallize in the triclinic and monoclinic systems with the space group P over(1,) and P2(1)/c, respectively with a distorted octahedral geometry about the M(II) center. The ligand is coordinated through the ring nitrogen, hydrazinic N and thione sulfur. The hydrazinic nitrogen coordinates with a shorter M-N distance than the ring nitrogen and the bond lengths in the chelate ring systems are intermediate between single and double bond distances, suggesting considerable delocalization of charge.
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