



Synthesis, spectroscopic investigations, X-ray studies and magnetic properties of novel three-dimensional thiocyanato-bridged manganese(II)-mercury(II) coordination polymers.

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Three novel heterobimetallic coordination polymers $[\text{Mn}(\text{Me-Im})_2\text{Hg}(\text{SCN})_4]_n$ (**1**, Me-Im = *N*-methyl-imidazole), $[\text{Mn}(\text{tp})(\text{MeOH})\text{Hg}(\text{SCN})_4]_n$ (**2**, tp = 1,2,4-triazolo-[1,5-*a*]pyrimidine) and $[\text{Mn}(\text{bopy})_2\text{Hg}(\text{SCN})_4]_n$ (**3**, bopy = 2-benzoylpyridine) have been synthesized and characterized by spectroscopic methods, single crystal X-ray diffraction analysis and magnetic measurements. X-ray analysis reveals that the compounds create three-dimensional coordination polymers. Variable-temperature magnetic susceptibility measurements show very weak antiferromagnetic interactions between the paramagnetic Mn(II) centers of structures **1**, **2** and **3**.

Słowa kluczowe

Coordination polymer, manganese, mercury, Thiocyanate bridge, X-ray, Magnetic measurements

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