Two new coordination polymers employing 2,2'-bipyridine-3,3', 6,6'-tetracarboxylate as a ligand.

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Streszczenie

Two new coordination polymers employing 2,2′-bipyridine-3,3′,6,6′-tetracarboxylate (*bptc*) as a ligand are presented: $[Mn_2(H_2O)_5(bptc)]_n$ (**1**) and $[Cu_2(H_2O)_2(bptc)]_n \cdot 2nH_2O$ (**2**). **1** is a 2D coordination polymer stabilized by Mn–O coordination bonds, where magnetic interactions are transmitted within carboxylate-bridged chains. **2** forms polymeric double chains. **1** and **2** are characterized by X-ray diffraction studies, IR spectra, elemental analysis and TGA. Magnetic properties measurements show weak antiferromagnetic coupling of the metal ions in both compounds.

Słowa kluczowe

coordination polymers, Manganese(II), copper(II), crystal structures, TGA, magnetic properties

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