Hydrothermal synthesis and characterization of an Mn(II) coordination polymer with 3,3'-*bpdc*·H_2O as ligand.

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Rok wydania

2015

Czasopismo

Inorganica Chimica Acta

Numer woluminu

436

Strony

214-219

DOI

10.1016/j.ica.2015.08.001

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The new 2D coordination polymer with a new 3,3′-bipyridine-2,2′dicarboxylate monohydrate (3,3′-*bpdc*·H_2O) ligand is described: $[Mn(3,3'\text{-bpdc})]_n$. In the distorted octahedral coordination environment of the Mn^{2+} cations the 3,3′-*bptc* ligand is bonded through nitrogen/carboxylate oxygen atoms. The $[Mn(3,3'\text{-bpdc})]_n$ polymer is characterized by X-ray diffraction studies, IR spectra, elemental analysis, TGA, magnetic properties measurements and the Atoms-in-Molecules analysis of the electron density.

Słowa kluczowe

coordination polymers, Manganese(II), Magnetic properties, Topological analysis

Adres publiczny

http://dx.doi.org/10.1016/j.ica.2015.08.001

Strona internetowa wydawcy

http://www.elsevier.com