Structure and magnetic properties of a new binuclear copper(II) complex of a tripodal oxime.

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Rok wydania

2014

Czasopismo

Journal of Molecular Structure

Numer woluminu

1059

Strony

265-270

DOI

10.1016/j.molstruc.2013.12.001

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Perchlorate salt of a new binuclear [Cu_2] cationic complex (**1**) with tris(1-propan-2-onyl oxime)amine acting as a ligand is introduced. In each complex cation two Cu^{2+} cations are linked by oxime groups from two ligands, whereas two remaining oxime groups per ligand remain non-deprotonated and participate in bifurcated O–H···O hydrogen bonds. Cu^{2+} ions are strongly antiferromagnetically coupled with singlet–triplet energy gap of about $2J = -750$ cm^{-1}, giving rise to interesting EPR properties.

Słowa kluczowe

Copper(II), Crystal structure, Magnetic properties, Antiferromagnetic coupling, EPR

Adres publiczny

http://dx.doi.org/10.1016/j.molstruc.2013.12.001

Strona internetowa wydawcy

http://www.elsevier.com