

FULL PAPERS

两个含有平行交替链的新型二氰胺配位高聚物: $\{\text{Mn}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$ 和 $\{\text{Cu}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$

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收稿日期 2004-6-11 修回日期 2004-9-14 网络版发布日期 接受日期

摘要 两个新型二氰胺配位高聚物, $\{\text{Mn}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$

1 和 $\{\text{Cu}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$

2 (dmpz=3,5-二甲基吡唑), 被合成出来并得到了单晶结构和红外光谱的表征。在**1**和**2**中金属离子都有两种不同的配位方式,

其中一个与四个二氰胺阴离子和两个单齿的dmpz分子配位形成一个轻微畸变的八面体对称性, 而另一个采用八面体对称性,

被二氰胺阴离子的四个腈基氮原子和二个酰胺基氮原子所包围。两个配合物都含有两种互相平行的交替链。

关键词 [二氰胺,配位高聚物,3,5-二甲基吡唑,铜,锰,单晶结构](#)

分类号

Two New Dicyanamide Coordination Polymers with Alternating Parallel Chains: $\{\text{Mn}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$ and $\{\text{Cu}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$

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Abstract Two new dicyanamide coordination polymers, $\{\text{Mn}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$ (**1**) and $\{\text{Cu}(\text{dmpz})[\text{N}(\text{CN})_2]_2\}_2$ (**2**) (dmpz=3,5-dimethylpyrazole), were synthesized and characterized by single crystal X-ray diffraction analysis and IR spectroscopy. In **1** and **2** the metal ions have two different coordination modes, where one is coordinated to four dicyanamide anions and two monodentate dmpz molecules to form a slightly distorted octahedral geometry, while the other adopts octahedral geometry, surrounded by four nitrile N atoms and two amide N atoms of the dicyanamide anions. Both complexes contain two alternating chains that are parallel to each other.

Key words [dicyanamide](#) [coordination polymer](#) [3,5-dimethylpyrazole](#) [copper](#) [manganese](#) [crystal structure](#)

DOI:

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