



## 配位聚合物 $[\text{Mn}(4, 4' \text{-bpy})_{1.5}(\text{H}_2\text{O})_3](\text{ClO}_4) \cdot (4, 4' \text{-bpy})(\text{L}) \cdot \text{H}_2\text{O}$ 的水热合成和晶体结构 (英文)

### Hydrothermal Synthesis and Crystal Structure of Coordination Polymer $[\text{Mn}(4, 4' \text{-bpy})_{1.5}(\text{H}_2\text{O})_3](\text{ClO}_4) \cdot (4, 4' \text{-bpy})(\text{L}) \cdot \text{H}_2\text{O}$

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中文关键词: 锰(II); 4, 4' -联吡啶; 配位聚合物; 晶体结构

英文关键词: Mn(II); 4, 4' -bi pyridine; coordination polymer; crystal structure

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中文摘要:

英文摘要:

The title compound,  $[\text{Mn}(4, 4' \text{-bpy})_{1.5}(\text{H}_2\text{O})_3](\text{ClO}_4) \cdot (4, 4' \text{-bpy})(\text{L}) \cdot \text{H}_2\text{O}(1)$ , where L=2,4,6-trimethylbenzoic acid, was synthesized and its crystal structure was determined by X-ray diffraction analysis. The crystal is of triclinic, space group *P*1 with  $a=2.929\ 9(6)$  nm,  $b=1.036\ 4(2)$  nm,  $c=8.222\ 0(1)$  nm,  $\alpha=105.300(2)^\circ$ ,  $\beta=97.495(2)^\circ$ ,  $\gamma=91.118(2)^\circ$ ,  $V=1.884\ 0(4)$  nm<sup>3</sup>,  $Z=2$ ,  $M_r=780.10$ ,  $D_c=1.375$  g·cm<sup>-3</sup>,  $\mu=0.483$  mm<sup>-1</sup>,  $F(000)=812$ ,  $R=0.055\ 4$ ,  $wR=0.135\ 2$ . The Mn atoms are octahedrally coordinated by three N atoms of three 4,4' -bipyridine ligands and three O atoms of water. The complex shows a one-dimensional chain structure bridged by water and 4,4' -bipyridine molecules. CCDC: 615707.

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