



Cu(II)与*N*-(2-羟苄基)-*DL*-丙氨酸、4,4'-联吡啶三元配合物的合成与晶体结构 Synthesis and Crystal Structure of Ternary Copper(II) Complex Containing *N*-(2-hydroxybenzyl)-*DL*-alanine and 4,4'-bipyridine

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中文关键词: *N*-(2-羟苄基)-*DL*-丙氨酸; 4,4'-联吡啶; 晶体结构; 包合现象

英文关键词: *N*-(2-hydroxybenzyl)-*DL*-alanine; 4,4'-bipyridine; crystal structure; inclusion phenomenon

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中文摘要:

英文摘要:

A supramolecular compound $[\text{Cu}(\text{sal}a)(4,4'\text{-bipy})_2] \cdot 0.5(4,4'\text{-bipy}) \cdot 2\text{H}_2\text{O}$ (sal *a* = *N*-(2-hydroxybenzyl)-*DL*-alaninate, 4,4'-bipy = 4,4'-bipyridine) was synthesized and characterized by elemental analysis, IR, and the crystal structure was determined by X-ray diffraction technique. It crystallizes in orthorhombic system with space group *Pbca*. The crystal data are: $a=1.8777(3)$ nm, $b=1.6367(2)$ nm, $c=2.1498(2)$ nm, and $V=6.6069(10)$ nm³, $Z=8$, $D_c=1.374$ g·cm⁻³, $\mu=0.713$ mm⁻¹, $F(000)=2848$, $R_1=0.0446$, $wR_2=0.1057$. In the title complex, Cu(II) ion is five coordinated with distorted square pyramidal configuration. The complex formed three-dimensional porous supermolecular structure through π - π stacking and hydrogen bonds. There exist uncoordinated 4,4'-bipy molecules in the compound, exhibiting a certain inclusion phenomenon. CCDC: 648620.

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