



邻二氮菲苯妥英合锰(II)三元配合物的合成、结构与抗微生物活性研究(英文)
Synthesis, Crystal Structure and Antimicrobial Activity of a New Ternary Mixed
Ligand Complex $[\text{Mn}(\text{pht})_2(\text{phen})]$

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中文关键词: Mn(II)配合物; 苯妥英; 邻二氮菲; 晶体结构; 抗微生物活性

英文关键词: manganese complex; 5, 5-di phenyl imidazole-2, 4-dione; 1, 10-phenanthroline; crystal structure; antimicrobial activity

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作者	单位
胡喜兰	淮海工学院化学工程系, 连云港 222005
许兴友	淮海工学院化学工程系, 连云港 222005
王大奇	聊城大学化学化工学院, 聊城 252059
许同桃	连云港职业技术学院化工系, 连云港 222006
顾海星	淮海工学院化学工程系, 连云港 222005

中文摘要:

英文摘要:

The title complex $[\text{Mn}(\text{pht})_2(\text{phen})]$ (H_{pht}=5, 5-di phenyl imidazole-2, 4-dione, phen=1, 10-phenanthroline) was synthesized and characterized by elemental analysis, IR and X-ray diffraction single-crystal structure analysis. The compound crystallizes in the monoclinic system, space group $C2/c$ with $a=2.6315(16)$ nm, $b=0.9245(6)$ nm, $c=1.5508(10)$ nm, $\beta=116.231(7)^\circ$; $V=3.384(4)$ nm³, $M_r=737.66$, $Z=4$, $F(000)=1524$, $D_c=1.448$ g·cm⁻³, $\mu=0.446$ mm⁻¹, the final $R=0.0699$ and $wR=0.1953$. The complex was valued for its antimicrobial activity against some bacteria in vitro. It was found to be active against the four test bacterial organisms. CCDC: 616309.

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服务热线: (025)83592307 传真: (025)83592307 邮编: 210093 Email: wjhx@netra.nju.edu.cn

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