二噻啉基二氧化物与镍的络合物[Ni(BiquO2)3]^2^+的立体构型和Ni^2^+的吸收谱

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摘要 本文通过对[Ni(BiquO2)3]^2^+配位离子中Ni^2^+吸收谱的理论分析, 推导出Ni^2^+的晶场对称性, 以此确定Ni(BiquO2)3X2分子的空间立体结构, 解释这类配合物的电-磁性质和稳定性.

关键词 吸收光谱法 氧化物 耦合常数 空间效应 立体化学 分子轨道理论 镍络合物 喹啉 P 构型 磁矩 配位场理论

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# The absorption spectrum of Ni^2^+ ion in nickel complex with 2,2'-biquinolyl-N,N'-dioxide and its steric configuration

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**Abstract** From a theor. anal. of the absorption spectral data of Ni2+ ion in Ni(BiquO2)3X2, as measured by A. Seminara et al. (1984) it is proposed that in [Ni(BiquO2)3]2+ complex, the 2 2,2'-biquinoline N,N'-dioxide ligands occupy the trigonal distorted D3 symmetry sites with the Ni2+ ion locates in the center. The complete absorption spectrum of Ni2+ ions in [Ni(BiquO2)3]2+ complexes was calculated The effective magnetic moment of Ni2+ ion and crystal field splitting was determine A good agreement between the theor. and observed values was observed

Key wordsABSORPTION SPECTROMETRYOXIDECOUPLING CONSTANTSTERIC EFFECTSTEREOCHEMISTRYMOLECULAR ORBITAL THEORYNICKEL COMPLEXQUINOLINE PCONFIGURATIONMAGNETIC MOMENTSLIGAND FIELD THEORY

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