



Electronic spectra and crystal structure of dinuclear Cu(II) 'paddle wheel' acetate complex containing axially coordinated 3-methyl-4-nitropyridine-*N*-oxide.

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Streszczenie

This article presents the electronic spectral characteristics enhanced with the structural, IR and magnetic data of the copper(II) acetate complex with 3-methyl-4-nitropyridine-*N*-oxide. The complex of the formula, $[\text{Cu}_2(\text{OAc})_4(3\text{-mnpn})_2]$, belongs to the group of the 'paddlewheel' type species with a very short ($2.58 \text{ \AA}$) metal-metal distance. In the electronic spectra, new bands were found at $16,000$ and $24,000 \text{ cm}^{-1}$, which have been tentatively assigned to the metal-metal interactions and solidstate effects, respectively. The complex shows fast kinetic exchange of the apical ligand, i.e. 3-methyl-4-nitropyridine-*N*-oxide.

Słowa kluczowe

electronic spectra, Digital filtration, Dinuclear copper(II) complexes, Methyl derivatives of 4-nitropyridine-*N*-oxides

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