

Synthesis, Crystal Structure and Spectroscopic Properties of a Dinuclear Nickel(II) Complex Bridged by an Alkoxide and a μ -Pyrazolate Ligand

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A nickel(II) complex, $[\text{Ni}_2(\text{L})(3,5\text{-prz})]$, ($\text{L} = 1,3\text{-bis}(2\text{-hydroxy-5-bromosalicylidene amino})\text{propan-2-ol}$; $3,5\text{-prz} = 3,5\text{-dimethylpyrazolate}$), was synthesized and characterized by means of elemental analysis, infrared and electronic spectra. The crystal structure of the complex has been determined by X-ray diffraction. The nickel(II) ions are bridged by the alkoxo group of the ligand and the N atoms of the μ -pyrazolate group. Each nickel ion is coordinated by two O atoms and two N atoms, forming a square with *trans*- N_2O_2 geometry.

Key words: Dinuclear Nickel(II) Complex, Crystal Structure, Schiff Base Complex,
Infrared and Electronic Spectra