FT-IR Spectroscopic Study on Some 4-(3-Cyclohexen-1-yl)pyridine Metal(II) Tetracyanonickelate Complexes

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New Hofmann-type complexes in the form of M(4-Chpy)₂Ni(CN)₄ [where 4-Chpy = 4-(3-cyclohexen-1-yl)pyridine and M = Ni, Co] were prepared in powder form, and their infrared spectra are reported in the range of 4000 – 400 cm⁻¹. The spectral findings suggest that these compounds are similar in structure to the Hofmann-type complexes, and their structure consists of polymeric layers [M-Ni(CN)₄]∞ with the 4-(3-cyclohexen-1-yl)pyridine molecule bound to the metal atom (M).

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