SPECTROSCOPI AND STRUCTUAL STUDIES ON SOME DIVALENT METAL SALT OF P-AMINOBENZOIC ACID [ABA(MG)]TETRACYANONICKELATE COMPLEXES

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Infrared spectra of $MLNi(CN)_4$ [M=Mn, Fe, Co, Ni, Zn or Cd and L= Divalent metal salt of p- Aminobenzoic Acid or ABA (Mg)] are reported. Their structure consists of polymeric layers of $[M\text{-}Ni(CN)_4]_\alpha$ with the divalent metal salt of p-aminobenzoic acid [ABA(Mg)] molecules bound directly to the metal (M). These spectra were comparewith powder the X-ray diffractionpattern of complexes. It is show that proposed structures for these complexes derived from Mattson 1000 FTIR spectra are consistent with the X-ray powder diffraction measurements and elemental analysis result.