

Vibrational Spectra of Hydrates of Some Metal(II) Malonates

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Interest in the synthesis and studies of metal(II) malonates crystalhydrates M(Co, Ni, Cu and Cd)^{1,2} steams from the extensive use of malonato ion in controlled assembly of molecules and ions into strategies for supramolecular synthesis and crystal engineering purposes.

In the course of vibrational spectroscopic investigations of crystalline hydrates of salts of malonic acid, the FTIR spectra were recorded at room temperature and the boiling temperature of liquid nitrogen (RT and LNT, respectively) and studied together with its RT Raman spectrum. The regions of the COO stretchings are discussed in more detail, and the appearance of the characteristic bands is correlated with the available structural data.

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