

Spectroscopic studies of europium compound with β -alaninehydroxamic acid : relation to the structure.

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Streszczenie

Single crystals of a europium complex with β -alaninehydroxamic acid were obtained and analysed by X-ray diffraction. Well resolved absorption, optical emission and excitation spectra down to 4 K are reported. The temperature dependence of individual terms was determined, and the nature of the changes observed is briefly discussed. The head of the paper is devoted to the electron-phonon coupling and co-operative interaction of pair of ions in a dimer. Assignments of vibronic transitions are proposed on the basis IR data. Spectroscopic characteristics of the title compound are related to the crystal structure and compared to corresponding data for europium α -derivatives (I and dI) 1, 2

Słowa kluczowe

Europium, β -Alaninehydroxamic acid, Spectroscopy,
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