

Spectroscopy of europium and terbium pyridine-carboxylates.

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Streszczenie

Luminescence, luminescence excitation, IR, and Raman spectra of europium and terbium isomeric pyridine-carboxylates: isonicotinates, nicotinates and picolinates were studied. The ways of the excitation energy transfer from the ligand to Ln^{3+} were analysed in dependence on the structure and the type of co-ordination of ligand. Intraligand charge transfer bands and Tb^{3+} f-d transition bands were identified in the luminescence excitation spectra of terbium and europium compounds. Co-ordination of nitrogen atom by terbium ion in picolinates (and dipicolinates) causes low-frequency shift of the f-d bands and promotes the excitation of luminescence through d-states of Tb^{3+} .

Słowa kluczowe

Lanthanide pyridine-carboxylates, Luminescence spectra, Luminescence excitation spectra, Vibration spectra, Charge transfer

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