



Optical properties of Eu(III) chelates trapped in silica gel glasses.

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Streszczenie

Preparation and optical properties of silica gel glasses doped with Eu(III) chelates (the complexes of β -diketones) are described. In particular the emission and excitation spectra of the precursor salts and glasses are reported. The assignment of electronic levels was proposed and the intensity analysis of the f-f transitions was performed. The decay times of 5D_0 levels of Eu(III) complexes in gels are analyzed and compared with those reported for precursor salts.

Słowa kluczowe

Europium(III), Chelate complexes, Sol-gel, Spectroscopic properties, Luminescence

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