

Molecular structure of phthalocyaninato lanthanide LnPc(OAc) complexes derived from the FTIR and FT Raman studies.

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Streszczenie

Room temperature Fourier transform IR and Raman spectra in the range 30–4000 cm⁻¹ and 80–4000 cm⁻¹ of Dy, Ho, Er and Lu phthalocyanide PcLn(OAc)-type complexes have been measured, respectively. The assignment of the bands observed has been made on the literature data. The molecular structure of the PcLnX-type derivatives has been discussed on the basis of the group theory taking into account the shape and number of the bands corresponding to the stretching and bending vibrations of the LnN₄O coordination polyhedron as well as whole PcLn(OAc) complex.

Słowa kluczowe

Phthalocyanide, PcLn(OAc)-type, Molecular structure, PcLnX, Derivatives, Group theory

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