

Chiral macrocyclic Nd(III) and Tm(III) complexes.

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Streszczenie

The two new chiral macrocyclic complexes obtained in a template condensation of *R,R*-1,2-diaminocyclohexane and 2,6-diformylpyridine, [NdL](NO₃)₃ and [TmL](NO₃)₃, have been synthesized and their X-ray crystal structures have been determined. The lanthanide(III) ions in both complexes are coordinated by a helically twisted hexadentate macrocycle and two bidentate nitrate anions. The [NdL](NO₃)₃ and [TmL](NO₃)₃ complexes have been studied also by ¹H and ¹³C NMR spectroscopy. The signal assignment was based on COSY, NOESY and HMQC measurements. The spectra of the investigated compounds in methanol–chloroform solution confirm the *D*₂-symmetrical helical conformation of the ligand.

Słowa kluczowe

Macrocycles, Lanthanide complexes, Chiral complexes, NMR of paramagnetic compounds

Adres publiczny

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