

Enantiopure chiral macrocyclic lanthanide complexes derived from (*R*)-2,2'-diamino-1,1'-binaphthyl and 2,6-diformylpyridine.

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Streszczenie

The template condensation of (*R*)-2,2'-diamino-1,1'-binaphthyl and 2,6-diformylpyridine leads to lanthanide(III) complexes of the new chiral hexaaza macrocycle L that adopts highly twisted conformation in [LnL](NO₃)₃ complexes. The complexes have been characterised by ESI MS spectrometry and NMR spectroscopy. The analogous N₂O₄ chiral crown ether L2 that has the same carbon skeleton as L does not exhibit tendency to bind lanthanide(III) ions. The X-ray crystal structure of L2 exhibit squeezed conformation of the macrocycle and spatial disposition of donor atoms that does not predispose it for coordination of lanthanide(III) ions.

Słowa kluczowe

chiral macrocycles, crown ethers, lanthanide complexes, NMR, Schiff bases

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