

Heterodinuclear macrocyclic complexes containing both nickel(II) and lanthanide(III) ions.

Autorzy

Jerzy Lisowski

Przemysław Starynowicz

Rok wydania

1999

Czasopismo

Inorganic Chemistry

Numer woluminu

38

Strony

1351-1355

DOI

10.1021/ic971416p

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The macrocyclic $[\text{LnNiL}]\text{Cl}_3$ complexes (Ln = La^{III}, Ce^{III}, Pr^{III}, Nd^{III}, Sm^{III}, Eu^{III}) contain both lanthanide and transition metal ions. The crystal structure of $[\text{LaNiL}]\text{Cl}_3$ reveals a square planar environment of Ni(II) ion and an 8-coordinate, irregular coordination sphere of La(III) ion. The ¹H and ¹³C NMR spectra of these compounds have been assigned on the basis of 2D techniques. The analysis of isotropic shifts of paramagnetic $[\text{LnNiL}]\text{Cl}_3$ complexes shows the importance of both contact and dipolar contributions.

Słowa kluczowe

Lanthanides, Metals, Ligands, Macrocycles

Adres publiczny

<https://doi.org/10.1021/ic971416p>

Strona internetowa wydawcy

<https://www.acs.org/content/acs/en.html>