

Synthesis, IR and X-Ray studies of Tetra(N,N'-Tetraethyl-N''-benzoylphosphorictriamide)-tetra(μ -3-methoxy)-tetra(methanol)tetra-Nickel(II).

Autorzy

Vladimir A. Ovchynnikov

Vladimir M. Amirkhanov

Anatoly A. Kapshuk

Tatiana Yu. Sliva

Tadeusz Głowiak

Henryk Kozłowski

Rok wydania

1998

Czasopismo

Zeitschrift für Naturforschung
Section B: A Journal of
Chemical Sciences

Numer woluminu

53b

Strony

836-840

DOI

10.1515/znb-1998-0810

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

A new nickel(II) complex with N,N'-tetraethyl-N''-benzoylphosphortriamide (HL = C₆H₅C(O)N(H)P(O)(NEt₂)(₂)) of composition Ni₄L₄(OCH₃)(₄).(HOCH₃)(₄) (1) has been synthesized. The crystal and molecular structure of 1 has been determined from the X-Ray diffraction data (tetragonal, space group $\overline{P}(4)2(1)c$ with $a = 17.000(2)$ Angstrom, $c = 15.338(3)$ Angstrom, $Z = 2$; $R = 0.0399$ for 1412 unique reflections). The structure is made up of cubane-like tetramers. In the corners of a cube there are 4 atoms of nickel and 4 atoms of oxygen of methoxy groups. The nickel atoms are characterized by a slightly distorted octahedral environment, which consists of three oxygen atoms of methoxy groups, carbonylic and phosphorylic oxygen atoms of the ligand L-, and an oxygen atom of a methanol molecule. The ligands L- coordinate to the metal ion forming a chelate via the oxygen atoms of carbonylic and phosphorylic groups.

Adres publiczny

<https://doi.org/10.1515/znb-1998-0810>

Strona internetowa wydawcy

<https://www.degruyter.com>

Plik został wygenerowany dnia 2026-10-06 02:18:12

Adres w repozytorium https://old.chem.uni.wroc.pl/pl/repozytorium/_eNMP-k.