CRYSTAL STRUCTURE OF NICKEL(II) Bis-(1,1,1,-TRIFLUORO-5,5-DIMETHYL-2,4-HEXANEDIONATE)-1,3-DIAMINOPROPANE

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The structure of the complex of nickel(II) bis-(1,1,1-trifluoro-5,5-dimethyl-2,4-hexanedionate) with 1,3-diaminopropane is determined by single crystal X-ray diffraction at a temperature of 150 K. Crystallographic data for $C_{20}H_{34}F_6N_2NiO_5$: a = 17.5446(8) Å, b = 18.1171(10) Å, c = 18.6654(7) Å, β = 115.4150(10)°, space group $C2/c$, V = 5358.8(4) Å^3, Z = 8, d_{calc} = 1.376 g/cm^3, R = 0.0435. The structure is molecular; the metal atom coordinates four oxygen atoms of two β-diketonate ligands and two nitrogen atoms of propylenediamine. In the crystal, the molecules are bonded only by van der Vaals interactions.

Keywords: octahedral complex of nickel(II), β-diketonate derivatives, single crystal X-ray diffraction study.