The mer-bis(2-aminothiazole)diaqua-orotato-nickel(II) complex, $\text{mer}^{-}[\text{Ni(\text{HOr})(\text{H}_2\text{O})_2(\text{ata})_2}]$ (I), was synthesized and characterized by spectral (IR and UV/vis) and thermal studies. In addition, the crystal structure of the complex was determined by single crystal X-ray diffraction. The complex crystallizes in the triclinic system, space group $\text{P}\overline{1}$. The orotate ligand is coordinated to the nickel(II) atom through a nitrogen atom of the pyrimidine ring and an oxygen atom of the carboxylate group as a bidentate dianion. The coordination of the Ni(II) ion is extended to six by the two 2-aminothiazoles (ata) and two water molecules. The thermal decomposition has been studied in a static air atmosphere.

**Key words:** Orotato Complex, Vitamin B13 Complex, 2-Aminothiazole