CRYSTAL STRUCTURES OF [Hg(*N*-ETHYLTHIOUREA)$_2$(CN)$_2$] AND [Hg(*N*-PROPYLTHIOUREA)$_2$(CN)$_2$]

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Two mercury(II) cyanide complexes of *N*-ethylthiourea (Ettu) and *N*-propylthiourea (Prtu) ligands, [Hg(Ettu)$_2$(CN)$_2$] (**1**) and [Hg(Prtu)$_2$(CN)$_2$] (**2**), were prepared and their crystal structures were determined by X-ray crystallography. In both structures, the mercury atom is coordinated to two sulfur atoms of thioureas and two cyanide carbon atoms in a pseudo-tetrahedral mode with the bond angles in the range of 90.52(11)-162.2(3)°. The structures are stabilized by N–H---S, N–H---N, and C–H---N intramolecular and intermolecular hydrogen bonds.

Keywords: mercury(II) cyanide, *N*-ethylthiourea, *N*-propylthiourea, X-ray structures.