

Structure

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Partial Cu Occupancy in Uranium Copper Diantimonide, $\text{UCu}_{0.60(4)}\text{Sb}_2$. — The title compound crystallizes in the tetragonal space group $P4/nmm$ with $Z = 2$ (single crystal XRD). The structure consists of USb sheets which are separated by square-planar nets of Sb and Cu atoms. There is a linear relationship between the Cu occupancy and the length of the c axis (following Vegard's Law) that holds for x between 0 and 1. — (RINGE, E.; IBERS*, J. A.; Acta Crystallogr., Sect. C: Cryst. Struct. Commun. 64 (2008) 8, i76-i78; Dep. Chem., Northwest. Univ., Evanston, IL 60208, USA; Eng.) — Schramke