Synthesis and Structure of $YbPdSn_2$

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New ternary stannide $YbPdSn_2$ was synthesized from the elements in a sealed tantalum tube in a high-frequency furnace. $YbPdSn_2$ was characterized through X-ray powder and single crystal data: *Cmcm*, a = 442.4(2), b = 1108.6(3), c = 738.4(2) pm, $wR2$ = 0.0450, 317 F^2 values, and 16 variable parameters. $YbPdSn_2$ crystallizes with the $MgCuAl_2$ type structure, a ternary ordered variant of the Re_3B type. The tin sublattice of $YbPdSn_2$ corresponds to a distorted lonsdaleite-like arrangement with Sn-Sn distances varying from 303 to 336 pm.