KSnAs	*hP*6	(186) $P6_3mc$ – b^2a

KSnAs [2]
Structural features: :$SnAs_3$ ψ-tetrahedra share vertices to form infinite layers; K in trigonal prismatic voids. Ordering variant of 2H-$CaGe_2$.

Klein J., Eisenmann B. (1988) [1]
AsKSn
a = 0.4102, c = 1.2816 nm, c/a = 3.124, V = 0.1868 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
K1	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.2823		16-vertex polyhedron $As_4Sn_6K_6$
As2	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.6028		octahedron Sn_3K_3
Sn3	2*a*	3*m*.	0	0	0.0		non-coplanar triangle As_3

Transformation from published data: -*x*,-*y*,-*z*; origin shift 0 0 0.2177
Experimental: single crystal, diffractometer, X-rays, R = 0.042

References: [1] Klein J., Eisenmann B. (1988), Mater. Res. Bull. 23, 587-594. [2] Lii K.H., Haushalter R.C. (1987), J. Solid State Chem. 67, 374-378.