

Ag₂SnO₃*hP*28(182) *P*6₃22 – igfdcb**Ag₂SnO₃** [1]

Structural features: Close-packed O layers in BBCC stacking; Sn in octahedral voids, Ag in octahedral (in part displaced from the octahedron centers) and linear voids. Infinite slabs of edge-linked SnO₆ octahedra are interconnected via O-Ag-O linear units to form a 3D-framework; additional Ag inside vacant octahedra in the SnO₃ slabs.

Linke C., Jansen M. (1997) [1]

Ag₂O₃Sn $a = 0.5623$, $c = 1.26694$ nm, $c/a = 2.253$, $V = 0.3469$ nm³, $Z = 4$

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
O1	12 <i>i</i>	1	0.3343	0.0511	0.1621		tetrahedron Sn ₂ Ag ₂
Ag2	6 <i>g</i>	.2.	0.3259	0	0		non-colinear O ₂
Ag3	4 <i>f</i>	3..	$\frac{1}{3}$	$\frac{2}{3}$	0.1845	0.333	
Sn4	2 <i>d</i>	3.2	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{3}{4}$		octahedron O ₆
Ag5	2 <i>c</i>	3.2	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{4}$	0.333	
Sn6	2 <i>b</i>	3.2	0	0	$\frac{1}{4}$		octahedron O ₆

Transformation from published data: -*x*, -*y*, -*z*; origin shift 0 0 $\frac{1}{2}$

Experimental: single crystal, diffractometer, X-rays, R = 0.056

Remarks: Short interatomic distances for partly occupied site(s).

References: [1] Linke C., Jansen M. (1997), Z. Anorg. Allg. Chem. 623, 1441-1446.