

TlSbO ₃	<i>hP</i> 20	(182) <i>P</i> 6 ₃ 22 – ifcb
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TlSbO₃ 2H_b [1]

Structural features: Infinite slabs consisting of a central layer of edge-linked SbO₆ octahedra sharing vertices with :TlO₃ ψ -tetrahedra on both sides.

Bouchama M., Tournoux M. (1975) [1]

O₃SbTl

$a = 0.531$, $c = 1.425$ nm, $c/a = 2.684$, $V = 0.3480$ nm³, $Z = 4$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	12 <i>i</i>	1	0.037	0.334	0.181		non-colinear Sb ₂
Tl2	4 <i>f</i>	3..	$\frac{1}{3}$	$\frac{2}{3}$	0.568		non-coplanar triangle O ₃
Sb3	2 <i>c</i>	3.2	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{4}$		octahedron O ₆
Sb4	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, Weissenberg photographs, X-rays, R = 0.090

References: [1] Bouchama M., Tournoux M. (1975), Rev. Chim. Miner. 12, 80-92.