$Ag_{22}Tl_4Te_{14.9}$	*hP*46	(174) *P*-6 – $l^3k^3j^3hg^2feba$

$Tl_4Ag_{24-x}Te_{15-y}$ [1]

Le Roy J. et al. (1992) [1]
$Ag_{22}Te_{14.88}Tl_4$
a = 1.1418, c = 0.922 nm, c/a = 0.807, V = 1.0410 nm^3, Z = 1

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Ag1	6*l*	1	0.12557	0.27493	0.2259		
Te2	6*l*	1	0.41947	0.10573	0.2621		tricapped trigonal prism Ag_7Tl_2
Ag3	6*l*	1	0.42257	0.35253	0.229		pentagonal bipyramid Te_4Ag_3
Ag4	3*k*	*m*..	0.05967	0.39133	$^1/_2$	0.667	4-vertex polyhedron $AgTe_3$
Ag5	3*k*	*m*..	0.28567	0.14433	$^1/_2$	0.667	
Te6	3*k*	*m*..	0.30917	0.42203	$^1/_2$		tricapped trigonal prism Ag_7Tl_2
Ag7	3*j*	*m*..	0.06887	0.42053	0		pentagonal bipyramid Te_4Ag_3
Ag8	3*j*	*m*..	0.28567	0.15733	0		
Te9	3*j*	*m*..	0.32117	0.42513	0		tricapped trigonal prism Ag_7Tl_2
Tl10	2*h*	3..	$^1/_3$	$^2/_3$	0.244		23-vertex polyhedron $Te_9Ag_{12}Tl_2$
Te11	2*g*	3..	0	0	0.147	0.38	
Te12	2*g*	3..	0	0	0.305	0.5	
Tl13	1*f*	-6..	$^2/_3$	$^1/_3$	$^1/_2$		23-vertex polyhedron $Te_9Ag_{12}Tl_2$
Tl14	1*e*	-6..	$^2/_3$	$^1/_3$	0		23-vertex polyhedron $Ag_{12}Te_9Tl_2$
Te15	1*b*	-6..	0	0	$^1/_2$	0.5	
Te16	1*a*	-6..	0	0	0	0.62	

Transformation from published data: -x,-y,-z; origin shift $^1/_3$ $^2/_3$ 0
Experimental: single crystal, diffractometer, X-rays, R = 0.100

Remarks: Short interatomic distances for partly occupied site(s). In [1] the z-coordinate of former Te(2) is misprinted as 0.5 instead of 0 (agreement with Wyckoff position 3*j*; checked on interatomic distances).

References: [1] Le Roy J., Moreau J.M., Brun G., Liautard B. (1992), J. Alloys Compd. 186, 249-254.