

KV₃Te₃O_{0.42}***hP16*****(176) *P6₃/m – h²cb*****KV₃Te₃O_{0.42} [1]**Structural features: Filled-up derivative of TlFe₃Te₃ with O in octahedral (V₆) voids.

Wu E.J. et al. (1998) [1]

KO_{0.42}Te₃V₃ $a = 0.962$, $c = 0.448$ nm, $c/a = 0.466$, $V = 0.3591$ nm³, $Z = 2$

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
V1	6 <i>h</i>	<i>m</i> ..	0.1485	0.1813	¹ / ₄		non-colinear O ₂
Te2	6 <i>h</i>	<i>m</i> ..	0.36231	0.06364	¹ / ₄		4-vertex polyhedron V ₄
K3	2 <i>c</i>	-6..	¹ / ₃	² / ₃	¹ / ₄		tricapped trigonal prism Te ₉
O4	2 <i>b</i>	-3..	0	0	0	0.42	octahedron V ₆

Transformation from published data: *y,x,-z*; origin shift 0 0 ¹/₂

Experimental: single crystal, diffractometer, X-rays, R = 0.034, T = 113 K

Remarks: In table 2 of [1] the Wyckoff position of former site O is misprinted as 2*a* instead of 2*b*.

References: [1] Wu E.J., Pell M.A., Genin H.S., Ibers J.A. (1998), J. Alloys Compd. 278, 123-129.