

$\text{K}_6\text{InTe}_4\text{Cl}$	$hP24$	$(186) P6_3mc - c^3b^2a$
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$\text{K}_6\text{InTe}_4\text{Cl}$ [1]

Structural features: Single InTe_4 tetrahedra and infinite chains of face-linked ClK_6 octahedra; additional K between the chains. In forms a Mg-type sublattice.

Sportouch S. et al. (1994) [1]

$\text{ClInK}_6\text{Te}_4$

$a = 1.1288$, $c = 0.8013$ nm, $c/a = 0.710$, $V = 0.8842$ nm³, $Z = 2$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
K1	$6c$	$.m.$	0.1245	0.8755	0.2582		non-colinear Cl_2
K2	$6c$	$.m.$	0.5209	0.4791	0.4578		16-vertex Frank-Kasper $\text{Te}_6\text{In}_2\text{K}_8$
Te3	$6c$	$.m.$	0.80047	0.19953	0.1783		single atom In
Te4	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.2263		single atom In
In5	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.5718		tetrahedron Te_4
Cl6	$2a$	$3m.$	0	0	0.0		octahedron K_6

Transformation from published data: $-x, -y, -z$; origin shift 0 0 0.7232

Experimental: single crystal, diffractometer, X-rays, $R = 0.018$, $T = 298$ K

References: [1] Sportouch S., Belin C., Tillard Charbonnel M. (1994), Acta Crystallogr. C 50, 1861-1862.