K_8HgIn_{10}	*hP*38	(176) $P6_3/m$ – i^2hfda

K_8HgIn_{10} [1]
Structural features: $(In,Hg)_{11}$ clusters (pentacapped trigonal prism) in a Mg-type (h.c.p.) arrangement. See Fig. IV.63.

Sevov S.C. et al. (1993) [1]
$Hg_{1.03}In_{9.97}K_8$
a = 0.99812, c = 1.6851 nm, c/a = 1.688, V = 1.4539 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
M1	12*i*	1	0.31453	0.36822	0.1569		bicapped square prism In_4K_6
K2	12*i*	1	0.3704	0.0695	0.0651		14-vertex Frank-Kasper In_7K_7
In3	6*h*	*m*..	0.1181	0.4638	$^1/_4$		icosahedron In_8K_4
In4	4*f*	3..	$^1/_3$	$^2/_3$	0.10048		icosahedron In_6K_6
K5	2*d*	-6..	$^2/_3$	$^1/_3$	$^1/_4$		15-vertex Frank-Kasper In_9K_6
K6	2*a*	-6..	0	0	$^1/_4$		15-vertex Frank-Kasper In_9K_6

M1 = 0.828In + 0.172Hg
Transformation from published data: origin shift 0 0 $^1/_2$
Experimental: single crystal, diffractometer, X-rays, R = 0.024

Remarks: In table 2 of [1] the y-coordinate of former K(1) is misprinted as 0.0695 instead of -0.0695 (checked on interatomic distances).

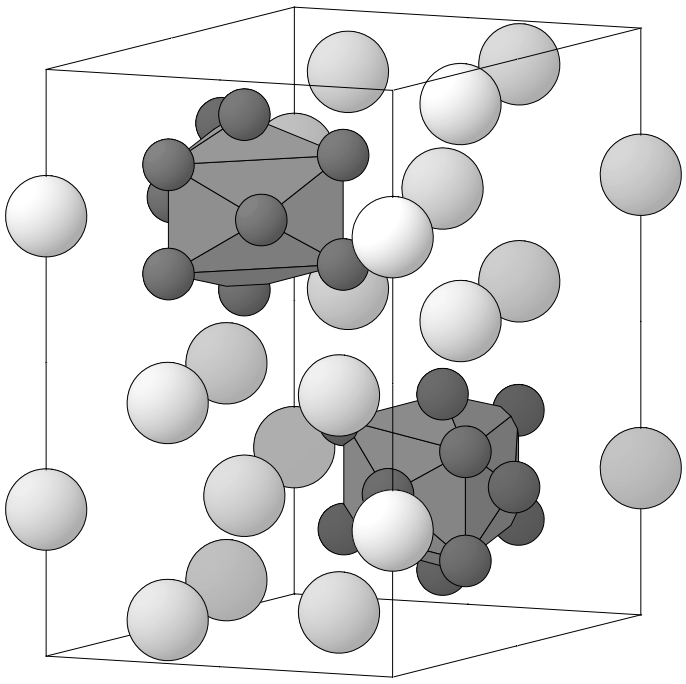

Fig. IV.63. **K_8HgIn_{10}**

Arrangement of $(In,Hg)_{11}$ clusters (pentacapped trigonal prisms; (In,Hg) atoms small) and K atoms (large).

References: [1] Sevov S.C., Ostenson J.E., Corbett J.D. (1993), J. Alloys Compd. 202, 289-294.