$Cu_3P_4Se_4I_3$	*hP*96	(185) $P6_3cm$ – d^5c^6

$(CuI)_3P_4Se_4$ [1]
Structural features: P_4Se_4 cage molecules (one P_3Se, one P_3Se_3 and two P_3Se_2 rings) share vertices with chains of vertex-linked $Cu(PI_3)$ tetrahedra (partial disorder) to form a 3D-framework. Variant of $(CuI)_3P_4S_4$ with partly disordered arrangement of Cu.

Pfitzner A., Reiser S. (1999) [1]
$Cu_3I_3P_4Se_4$
a = 1.9601, c = 0.67196 nm, c/a = 0.343, V = 2.2358 nm^3, Z = 6

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
I1	12*d*	1	0.20185	0.53358	0.11357		6-vertex polyhedron Cu_6
Se2	12*d*	1	0.21648	0.32459	0.15037		non-colinear P_2
Cu3	12*d*	1	0.335	0.5413	0.20627	0.445	
Cu4	12*d*	1	0.336	0.5417	0.01847	0.555	
P5	12*d*	1	0.3382	0.4311	0.11317		
Cu6	6*c*	..*m*	0.12356	0	0.38757		tetrahedron PI_3
I7	6*c*	..*m*	0.12944	0	0.0		non-coplanar triangle Cu_3
P8	6*c*	..*m*	0.2327	0	0.48577		tetrahedron Se_3Cu
Se9	6*c*	..*m*	0.29987	0	0.21637		non-colinear P_2
P10	6*c*	..*m*	0.3978	0	0.37927		non-coplanar triangle SeP_2
Se11	6*c*	..*m*	0.57942	0	0.33417		non-colinear P_2

Transformation from published data: *-x*,*-y*,*-z*; origin shift 0 0 0.29893
Experimental: single crystal, diffractometer, X-rays, R = 0.059, T = 298 K

Remarks: Short interatomic distances for partly occupied site(s).

References: [1] Pfitzner A., Reiser S. (1999), Inorg. Chem. 38, 2451-2454.