$TaInS_2$	*hP*4	(187) *P*-6*m*2 – gda

$InTaS_2$ 1s [1]
Structural features: Directly superposed close-packed S layers; Ta in trigonal prismatic, In in linear voids (stacking sequence AbAα). TaS_6 trigonal prisms share edges to form infinite slabs; In in linear coordination between the slabs.

Eppinga R., Wiegers G.A. (1980) [1]
InS_2Ta
a = 0.331, c = 0.873 nm, c/a = 2.637, V = 0.0828 nm^3, Z = 1

site	Wyck.	sym.	x	y	z	occ.	atomic environment
S1	2*g*	3*m*.	0	0	0.31		tetrahedron Ta_3In
Ta2	1*d*	-6*m*2	$^1/_3$	$^2/_3$	$^1/_2$		anticuboctahedron S_6Ta_6
In3	1*a*	-6*m*2	0	0	0		hexagonal bipyramid S_2In_6

Experimental: powder, diffractometer, X-rays

References: [1] Eppinga R., Wiegers G.A. (1980), Physica B+C (Amsterdam) 99, 121-127.