

NaPt_2Se_3	$hP24$	$(186) P6_3mc - c^3b^2a$
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$\text{Na}_2\text{Pt}_4\text{Se}_6$ [1]

Structural features: PtSe_4 squares and PtSe_6 octahedra share edges to form infinite slabs.

Bronger W. et al. (1990) [1]

NaPt_2Se_3

$a = 0.7346$, $c = 1.1618$ nm, $c/a = 1.582$, $V = 0.5430$ nm³, $Z = 4$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Se1	$6c$	$.m.$	0.17	0.83	0.18		non-coplanar triangle Pt_3
Se2	$6c$	$.m.$	0.5	0.5	0.4		non-coplanar triangle Pt_3
Pt3	$6c$	$.m.$	0.83	0.17	0.29		square pyramid Se_4Na
Pt4	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.25		octahedron Se_6
Na5	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.62		octahedron Pt_3Se_3
Na6	$2a$	$3m.$	0	0	0.0		trigonal prism Se_3Pt_3

Transformation from published data: origin shift 0 0 0.75

Experimental: single crystal, X-rays

Remarks: In [1] the z -coordinate of former Pt(1) is omitted, we assume it was set to 0.

References: [1] Bronger W., Jäger S., Rennau R., Schmitz D. (1990), J. Less-Common Met. 161, 25-30.