

$\text{Ag}_{0.43}\text{Nb}_2\text{S}_4$	$hP14$	$(186) P6_3mc - b^5a^2$
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$\text{Ag}_{0.22}\text{NbS}_2$ 4H [1]

Structural features: Close-packed S layers in AABBAACC stacking; Nb in trigonal prismatic, Ag in octahedral voids. Infinite slabs of edge-linked NbS_6 trigonal prisms in hc stacking; Ag in octahedral voids in every second interlayer (stage 2).

Wiegers G.A. et al. (1988) [1]

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$a = 0.3334$, $c = 2.609$ nm, $c/a = 7.825$, $V = 0.2512$ nm³, $Z = 2$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Nb1	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.0623		trigonal prism S_6
Ag2	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.1987	0.43	octahedron S_6
Nb3	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.3341		trigonal prism S_6
S4	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.7723		trigonal prism Nb_3Ag_3
S5	$2b$	$3m.$	$\frac{1}{3}$	$\frac{2}{3}$	0.8907		non-coplanar triangle Nb_3
S6	$2a$	$3m.$	0	0	0.0		non-coplanar triangle Nb_3
S7	$2a$	$3m.$	0	0	0.1186		non-coplanar triangle Nb_3

Transformation from published data: origin shift 0 0 0.9377

Experimental: single crystal, diffractometer, X-rays, $R = 0.120$, $T = 300$ K

References: [1] Wiegers G.A., Haange R.J., Van Bolhuis F. (1988), Phys. Status Solidi A 107, 817-824.