$RbAg_5S_3$	*hP*54	(174) *P*-6 – $l^3k^5j^5ihg$

$RbAg_5S_3$ [1]
Structural features: AgS_3 trigonal units share vertices to form infinite planar nets (large triangular voids), which are interconnected via additional Ag in (approximtely) linear coordination (infinite zigzag chains with linear S-Ag-S segments) to form a 3D-framework; Rb in channels parallel to [001].

Wood P.T. et al. (1994) [1]
Ag_5RbS_3
a = 1.3389, c = 0.804 nm, c/a = 0.6, V = 1.2482 nm^3, Z = 6

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Ag1	6*l*	1	0.00003	0.46337	0.2477		non-colinear S_2
Ag2	6*l*	1	0.18413	0.33297	0.2469		non-colinear S_2
Ag3	6*l*	1	0.33353	0.18427	0.2489		non-colinear S_2
S4	3*k*	*m*..	0.11073	0.52857	$^1/_2$		non-coplanar square Ag_4
S5	3*k*	*m*..	0.13913	0.22117	$^1/_2$		non-coplanar square Ag_4
Ag6	3*k*	*m*..	0.29503	0.00417	$^1/_2$		tricapped trigonal prism S_3Ag_6
Ag7	3*k*	*m*..	0.37043	0.36677	$^1/_2$		tricapped trigonal prism S_3Ag_6
S8	3*k*	*m*..	0.44303	0.21847	$^1/_2$		non-coplanar square Ag_4
Ag9	3*j*	*m*..	0.00423	0.29457	0		tricapped trigonal prism S_3Ag_6
S10	3*j*	*m*..	0.21973	0.44347	0		non-coplanar square Ag_4
S11	3*j*	*m*..	0.22063	0.13947	0		non-coplanar square Ag_4
Ag12	3*j*	*m*..	0.36693	0.37057	0		tricapped trigonal prism S_3Ag_6
S13	3*j*	*m*..	0.52843	0.11067	0		non-coplanar square Ag_4
Rb14	2*i*	3..	$^2/_3$	$^1/_3$	0.2518		octahedron S_6
Rb15	2*h*	3..	$^1/_3$	$^2/_3$	0.2505		octahedron S_6
Rb16	2*g*	3..	0	0	0.2513		octahedron S_6

Transformation from published data: -*x*,-*y*,-*z*; origin shift $^2/_3$ $^1/_3$ 0
Experimental: single crystal, diffractometer, X-rays, R = 0.031, T = 294 K

Remarks: We recommend space group (190) *P*-62*c*, rejected by the authors (diffraction symbol *P*--- stated), be tested.

References: [1] Wood P.T., Pennington W.T., Kolis J.W. (1994), Inorg. Chem. 33, 1556-1558.