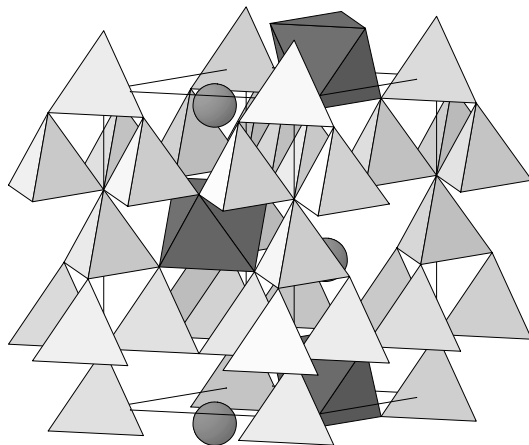


NaBe₄SbO₇*hP*26(186) *P*6₃*mc* – *c*³*b*²*a*²**NaBe₄SbO₇** [2], swedenborgite, Strukturbericht notation E9₂; SrYbSi₄N₇ [3]Structural features: BeO₄ tetrahedra and SbO₆ octahedra share vertices to form a 3D-framework. See Fig. IV.26.Fig. IV.26. **NaBe₄SbO₇**Arrangement of BeO₄ tetrahedra (light), SbO₆ octahedra (dark) and Na atoms.

Huminicki D.M.C., Hawthorne F.C. (2001) [1]

Be₄Ca_{0.07}Na_{0.89}O₇Sb*a* = 0.54317, *c* = 0.88571 nm, *c/a* = 1.631, *V* = 0.2263 nm³, *Z* = 2

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
O1	6 <i>c</i>	. <i>m</i> .	0.5039	0.4961	0.1923		non-coplanar triangle Be ₂ Sb
Be2	6 <i>c</i>	. <i>m</i> .	0.8336	0.1664	0.2503		tetrahedron O ₄
O3	6 <i>c</i>	. <i>m</i> .	0.8384	0.1616	0.436		coplanar triangle Be ₂ Sb
Sb4	2 <i>b</i>	3 <i>m</i> .	$\frac{1}{3}$	$\frac{2}{3}$	0.0629		octahedron O ₆
M5	2 <i>b</i>	3 <i>m</i> .	$\frac{1}{3}$	$\frac{2}{3}$	0.4384	0.96	anticuboctahedron O ₁₂
Be6	2 <i>a</i>	3 <i>m</i> .	0	0	0.0		tetrahedron O ₄
O7	2 <i>a</i>	3 <i>m</i> .	0	0	0.1901		tetrahedron Be ₄

M5 = 0.93Na + 0.07Ca

Transformation from published data: -*x*, -*y*, -*z*; origin shift 0 0 0.4371Experimental: single crystal, diffractometer, X-rays, *R* = 0.012

Remarks: Natural specimen from Långban, Sweden. Confirmation of one of the structures proposed in [4] (Be not located).

References: [1] Huminicki D.M.C., Hawthorne F.C. (2001), Can. Mineral. 39, 153-158. [2] Pauling L., Klug H.P., Winchell A.N. (1935), Am. Mineral. 20, 492-501. [3] Huppertz H., Schnick W. (1997), Z. Anorg. Allg. Chem. 623, 212-217. [4] Aminoff G. (1924), Z. Kristallogr. 60, 262-274.