

Stronalsite**Na₂SrAl₄Si₄O₁₆**

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Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m or mm2. In short prisms, to 1 mm, forming blocky aggregates.

Physical Properties: *Cleavage:* Rectangular parting suspected. Hardness = 6.5
D(meas.) = 2.95 D(calc.) = 2.95

Optical Properties: Semitransparent. *Color:* White; in thin section, colorless. *Streak:* White. *Luster:* Vitreous.

Optical Class: Biaxial (+). *Orientation:* X = c; Y = a; Z = b. $\alpha = 1.563(2)$ $\beta = [1.564]$
 $\gamma = 1.574(2)$ 2V(meas.) = 32°

Cell Data: *Space Group:* Ibam or Iba2. a = 8.415(4) b = 9.901(4) c = 16.729(9)
Z = 4

X-ray Powder Pattern: Rendai, Japan; very similar to banalsite.
3.204 (100), 3.502 (80), 2.881 (70), 3.183 (50), 2.067 (50), 3.765 (40), 3.069 (40)

Chemistry:

	(1)	(2)
SiO ₂	39.09	38.87
Al ₂ O ₃	32.70	32.30
CaO	0.17	0.41
SrO	15.71	17.11
BaO	2.29	0.80
Na ₂ O	9.98	10.12
Total	[99.94]	99.61

(1) Rendai, Japan; by electron microprobe, average of five analyses, original total given as 99.91%; corresponds to Na_{1.99}(Sr_{0.94}Ba_{0.09}Ca_{0.02})_{Σ=1.05}Al_{3.95}Si_{4.01}O₁₆. (2) Mt. Ohsa, Japan; by electron microprobe; corresponds to Na_{2.02}(Sr_{1.03}Ca_{0.05}Ba_{0.03})_{Σ=1.11}Al_{3.92}Si_{4.00}O₁₆.

Mineral Group: Feldspar group.

Occurrence: A secondary alteration mineral in veins cutting mafic metatuff xenoliths (Rendai, Japan); in veinlets and grains in jadeitic aggregates within serpentinite (Mt. Ohsa, Japan).

Association: Pectolite, slawsonite, albite, calcite, aragonite, natrolite, thomsonite, prehnite, datolite, rosenhahnite, vuagnatite.

Distribution: From a quarry near Rendai, Kochi City, Kochi Prefecture, and on Mt. Ohsa, Okayama Prefecture, Japan.

Name: For STRONTium and ALuminum in its composition.

Type Material: National Science Museum, Tokyo, Japan; National Museum of Natural History, Washington, D.C., USA, 160484.

References: (1) Hori, H., I. Nakai, K. Nagashima, S. Matsubara, and A. Kato (1987) Stronalsite, SrNa₂Al₄Si₄O₁₆, a new mineral from Rendai, Kochi City, Japan. Mineral. J. (Japan), 13, 368–375. (2) (1988) Amer. Mineral., 73, 195 (abs. ref. 1).