

Crystal Data: Tetragonal. *Point Group:* 4/m. As platy crystals to 0.3 mm, flattened on {001}.

Physical Properties: *Cleavage:* Good on {001}. *Tenacity:* Brittle. *Fracture:* n.d.
Hardness = ~4 D(meas.) = n.d. D(calc.) = 4.171 Nonfluorescent.

Optical Properties: Transparent. *Color:* Sky-blue. *Streak:* White. *Luster:* Vitreous.
Optical Class: Uniaxial (+). $\omega = 1.725(3)$ $\epsilon = 1.750(3)$ *Dispersion:* Weak, $r > v$.
Pleochroism: $O =$ medium blue, $E =$ pale yellow.

Cell Data: *Space Group:* I4/m. $a = 7.043(1)$ $c = 11.444(2)$ $Z = 2$

X-ray Powder Pattern: Gun Claim, Yukon Territory, Canada.
3.004 (100), 2.486 (67), 3.36 (44), 2.493 (43), 1.785 (39), 3.76 (30), 1.763 (25)

Chemistry:	(1)	(2)
SiO ₂	33.40	33.72
TiO ₂	1.75	
Al ₂ O ₃	0.33	
FeO	0.30	
VO ₂	20.69	23.27
Na ₂ O	0.08	
BaO	42.28	43.02
Total	98.83	100.00

(1) Gun Claim, Yukon Territory, Canada; average electron microprobe analysis supplemented by FTIR spectroscopy; corresponds to Na_{0.02}Ba_{1.98}Ti_{0.16}Fe²⁺_{0.03}V⁴⁺_{1.80}Al_{0.05}Si_{4.00}O₁₄. (2) Ba₂V₂O₂Si₄O₁₂.

Polymorphism & Series: Polymorphic with suzukiite.

Occurrence: In barium-rich low-temperature skarn related to a porphyritic quartz monzonite stock.

Association: Alstonite, baryte, celsian, diopside, fresnoite, mica, suzukiite, walstromite, witherite, minerals of the cerchiaraita group..

Distribution: From the Gun Claim, ~4 km southeast of Wilson Lake and 16 km southeast of Itsy Peak, Yukon Territory, Canada.

Name: For its essential composition, *Ba* for barium, *V* for vanadium, and *Si* for silicon.

Type Material: Universalmuseum Joanneum, Graz, Austria (85.282).

References: (1) Bojar, H.-P., F. Walter, and J. Baumgartner (2019) Bavsiite, Ba₂V₂O₂[Si₄O₁₂], mineral data and crystal structure. *Mineral. Mag.*, 83, 821-827.