

Crystal Data: Orthorhombic. *Point Group:* 222. As aggregates to 10 mm of aligned, thin crystals, to 5 mm, platy on {001}, modified by {100}, {010}, and {111}.

Physical Properties: *Cleavage:* Good on {110} and {001}. *Tenacity:* Brittle. *Fracture:* Uneven. Hardness = 5-6 D(meas.) = 2.16(2) D(calc.) = 2.21 Nonfluorescent.

Optical Properties: Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Biaxial (-). $\alpha = 1.499(1)$ $\beta = 1.507(1)$ $\gamma = 1.511(1)$ $2V(\text{meas.}) = 65(5)^\circ$ $2V(\text{calc.}) = 70^\circ$ *Orientation:* $X = a, Y = c, Z = b$.

Cell Data: *Space Group:* P2₁2₁2₁. $a = 9.722(1)$ $b = 10.142(1)$ $c = 12.030(1)$ $Z = 4$

X-ray Powder Pattern: Kvanefjeld Plateau, Ilímaussaq complex, South Greenland. 5.97 (100), 6.11 (80b), 3.09 doublet (70), 2.988 doublet (60), 3.06 (50), 3.46 (45), 5.07 (35)

Chemistry:	(1)
Na ₂ O	13.8
K ₂ O	0.34
BeO	[6.26]
CaO	0.13
SiO ₂	62.4
H ₂ O	[18.05]
Total	100.98

(1) Kvanefjeld Plateau, Ilímaussaq complex, South Greenland; average electron microprobe and SEM EDS analyses, H₂O and BeO calculated; corresponds to (Na_{1.74}K_{0.03}Ca_{0.01})_{Σ=1.78}Be_{0.98}Si_{4.06}O₁₀·3.92H₂O.

Mineral Group: Zeolite group.

Occurrence: In albite-lined cavities within tugtupite-bearing albitites.

Association: Gmelinite, neptunite, analcime, gonnardite, lovdarite.

Distribution: On the Kvanefjeld Plateau, northwestern extremity of the Ilímaussaq complex, South Greenland.

Name: Comprised of the chemical symbols of the mineral's three essential cations - Na, Be, Si.

Type Material: Geological Museum, Copenhagen, Denmark, and the Natural History Museum, Vienna, Austria.

References: (1) Petersen, O.V., G. Giester, F. Brandstätter, and G. Niedermayr (2002) Nabesite, Na₂BeSi₄O₁₀·4H₂O, a new mineral species from the Ilímaussaq alkaline complex, South Greenland. *Can. Mineral.*, 40(1), 173-181. (2) (2003) *Amer. Mineral.*, 88, 252 (abs. ref. 1). (3) Armstrong, J.A., H. Friis, A. Lieb, A.A. Finch, and M.T. Weller (2010) Combined single-crystal X-ray and neutron powder diffraction structure analysis exemplified through full structure determinations of framework and layer beryllate minerals. *Amer. Mineral.*, 95, 519-526.