

Crystal Data: Monoclinic. *Point Group:* $2/m$. Crystals tabular to prismatic, to 2 mm; in fibrous clusters; earthy to chalky massive. *Twining:* About [110], with composition plane {001}.

Physical Properties: *Cleavage:* {001}, perfect; {010}, good; {110}, distinct.
Fracture: Conchoidal. *Tenacity:* Brittle. Hardness = ~ 4.5 D(meas.) = 2.24(1)
 D(calc.) = 2.23

Optical Properties: Transparent to translucent, opaque. *Color:* Colorless to white.
Streak: White. *Luster:* Vitreous to earthy.
Optical Class: Biaxial (+). *Orientation:* $X = b$; $Y \wedge c = 16^\circ$. *Dispersion:* $r > v$, strong, inclined. $\alpha = 1.515(1)$ $\beta = 1.516(1)$ $\gamma = 1.518(1)$ $2V(\text{meas.}) = 64(1)^\circ$ $2V(\text{calc.}) = 71^\circ$

Cell Data: *Space Group:* $A2/n$. $a = 5.061(1)$ $b = 8.334(2)$ $c = 14.383(3)$ $\beta = 96.67(2)^\circ$
 $Z = 4$

X-ray Powder Pattern: Mont Saint-Hilaire, Canada.
 7.14 (100), 4.14 (100), 2.847 (100), 4.24 (80), 4.02 (80), 2.698 (50), 1.610 (40)

Chemistry:	(1)
SiO ₂	58.54
Al ₂ O ₃	0.01
CaO	0.14
Li ₂ O	[7.28]
Na ₂ O	14.96
H ₂ O	[17.56]
Total	[98.49]

(1) Mont Saint-Hilaire, Canada; by electron microprobe, Li₂O and H₂O calculated from stoichiometry of crystal structure; corresponds to $(\text{Na}_{0.99}\text{Ca}_{0.01})_{\Sigma=1.00}\text{LiSi}_{2.00}\text{O}_5 \cdot 2\text{H}_2\text{O}$.

Occurrence: In sodalite syenite xenoliths in nepheline syenite in an intrusive alkalic gabbro-syenite complex.

Association: Ussingite, terskite-(Ce), sérandite, vuonnemite, halite, villiaumite, thermonatrite, aegirine.

Distribution: At Mont Saint-Hilaire, Quebec, Canada.

Name: For Silicon, Lithium, and sodium, NAtrium, in the composition.

Type Material: Canadian Museum of Nature, Ottawa, 56467, 56468; Royal Ontario Museum, Toronto, Canada, M44516, M44517.

References: (1) Chao, G.Y., J.D. Grice, and R.A. Gault (1991) Silinaite, a new sodium lithium silicate hydrate mineral from Mont Saint-Hilaire, Quebec. *Can. Mineral.*, 29, 359–362.
 (2) Grice, J.D. (1991) The crystal structure of silinaite, NaLiSi₂O₅•2H₂O: a monophyllosilicate. *Can. Mineral.*, 29, 363–367. (3) (1991) *Amer. Mineral.*, 76, 2023–2024 (abs. refs. 1 and 2).