

Crystal Data: Cubic. *Point Group:* $4/m\bar{3}2/m$. As tiny cubes and octahedra, tapering prismatic aggregates, to 3 mm; botryoidal, as irregular grains and fine-grained powdery patches.

Physical Properties: *Cleavage:* {100}, good. *Fracture:* Uneven to conchoidal. Hardness = ~ 4.5 $D(\text{meas.}) = 2.62$ $D(\text{calc.}) = 2.67$ May fluoresce pale yellow under SW UV.

Optical Properties: Translucent, quickly becoming opaque on exposure. *Color:* Bright to dull white surfaces, pale yellowish green or light orange cores. *Streak:* White. *Luster:* Vitreous or porcelaneous to waxy or dull.

Optical Class: Isotropic. $n = 1.3986(5)$

Cell Data: *Space Group:* $Fm\bar{3}m$. $a = 4.0293(2)$ $Z = 4$

X-ray Powder Pattern: Mont Saint-Hilaire, Canada.
2.013 (10), 2.324 (9), 1.424 (5), 1.213 (1), 1.163 (1), 0.924 (1), 0.900 (1)

Chemistry:	(1)
Li	24.72
Fe	0.03
Mn	0.01
Ca	0.03
Al	0.06
F	72.20
Total	97.05

(1) Mont Saint-Hilaire, Canada; by AA, F by ion selective electrode; corresponds to $\text{Li}_{0.97}\text{F}_{1.03}$.

Occurrence: In sodalite inclusions in hornfels associated with an intrusive alkalic gabbro-syenite complex.

Association: Sodalite, ussingite, villiaumite, eudialyte, sphalerite, serandite, lovozerite, vuonnemite.

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

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Type Material: Canadian Museum of Nature, Ottawa, 52310–52313; Royal Ontario Museum, Toronto, Canada, M43055.

References: (1) Van Velthuisen, J. and G.Y. Chao (1989) Griceite, LiF, a new mineral species from Mont Saint-Hilaire, Quebec. *Can. Mineral.*, 27, 125–127. (2) Horváth, L. and R.A. Gault (1990) The mineralogy of Mont Saint-Hilaire, Quebec. *Mineral. Record*, 21, 284–359, esp. 313.