

**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(meas.) = 2.62 D(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)

<b>Chemistry:</b>	(1)
	Li 24.72
	Fe 0.03
	Mn 0.01
	Ca 0.03
	Al 0.06
	F 72.20
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	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.

**Name:** Honors Dr. Joel Denison Grice (1946–), Curator of Minerals at the Canadian Museum of Nature [National Museum of Natural Sciences], Ottawa, Canada.

**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.