

**Crystal Data:** Monoclinic. *Point Group:* 2. *Twinning:* On {011} and {10 $\bar{1}$ }. As crude to sharp pseudo-octahedral crystals to 2 mm; as rough botryoidal aggregates to 1.5 mm.

**Physical Properties:** *Cleavage:* Good parting on {011}. *Tenacity:* Brittle. *Fracture:* n.d.  
Hardness = ~ 4 D(meas.) = 2.19(2) D(calc.) = 2.071

**Optical Properties:** Transparent to translucent. *Color:* Pale yellow to white (aggregates).  
*Streak:* White. *Luster:* Vitreous; frosted aggregates.  
*Optical Class:* Biaxial (+).  $\alpha = 1.489(1)$   $\beta = 1.492(1)$   $\gamma = 1.496(1)$   $2V(\text{meas.}) = 75(3)^\circ$   
 $2V(\text{calc.}) = 82(7)^\circ$  *Dispersion:* None. *Pleochroism:* None. Blurred extinction due to twins.

**Cell Data:** *Space Group:* I2.  $a = 9.990(2)$   $b = 10.032(2)$   $c = 10.036(2)$   $\beta = 90.11(3)^\circ$   $Z = 1$

**X-ray Powder Pattern:** Poudrette quarry, Mont Saint-Hilaire, Québec, Canada.  
3.172 (100), 7.098 (79), 4.101(77), 2.685 (64), 5.026 (32), 2.904 (14), 1.9669 (14)

<b>Chemistry:</b>	(1)
Na <sub>2</sub> O	14.28
K <sub>2</sub> O	1.10
CaO	0.04
BaO	0.09
FeO	0.02
MnO	0.02
MgO	0.00
Al <sub>2</sub> O <sub>3</sub>	26.89
SiO <sub>2</sub>	46.71
TiO <sub>2</sub>	0.00
Nb <sub>2</sub> O <sub>5</sub>	0.04
<u>H<sub>2</sub>O</u>	<u>[10.73]</u>
Total	99.92

(1) Poudrette quarry, Mont Saint-Hilaire, Québec, Canada; average of 8 electron microprobe analyses supplemented by IR spectroscopy, H<sub>2</sub>O from structure analysis, 'excess' H for charge balance; corresponds to (Na<sub>5.650</sub>K<sub>0.286</sub>Ca<sub>0.009</sub>Ba<sub>0.007</sub>Mn<sub>0.003</sub>Fe<sub>0.003</sub>Nb<sub>0.004</sub>) $\Sigma=5.960$ H<sub>0.50</sub>[(Al<sub>6.468</sub>Si<sub>9.532</sub>) $\Sigma=16$ O<sub>32</sub>]·7.3H<sub>2</sub>O.

**Mineral Group:** Zeolite group.

**Occurrence:** In vugs in a hydrothermally-altered zone of the Poudrette pegmatite and in sodalite-rich segregations in nepheline syenite both part of an alkaline igneous intrusive complex.

**Association** Natrolite, gmelinite, aegirine, gonnardite.

**Distribution:** From the Poudrette quarry, Mont Saint-Hilaire, La Vallée-du-Richelieu RCM, Montérégie, Québec, Canada.

**Name:** The suffix indicates the Na analog of *garronite*.

**Type Material:** Canadian Museum of Nature, Ottawa, Ontario, Canada (CMNMC 86893).

**References:** (1) Grice, J.D., R. Rowe, and G. Poirier (2017) Garronite-(Na), a new zeolite species from Mont Saint-Hilaire, Québec. *Can. Mineral.*, 54(6), 1549-1562. (2) (2018) *Amer. Mineral.*, 103, 2525-2526 (abs. ref. 1).