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Crystal Data: Hexagonal. *Point Group:* 6/m 2/m, 6mm, or $\overline{6}2c$. As imperfect prismatic crystals, elongated along [0001], to 2 cm, with dominant $\{10\overline{1}0\}$; also as equant crystals with $\{10\overline{1}0\}$ and $\{0001\}$ and fibrous terminations.

Physical Properties: Cleavage: Indistinct on $\{10\overline{1}0\}$. Fracture: Conchoidal. Tenacity: Brittle. Hardness = 3-4 D(meas.) = 3.45(3) D(calc.) = 3.46

Optical Properties: Translucent. Color: Bright orange, pale pink. Streak: White.

Luster: Vitreous, silky.

Optical Class: Uniaxial (-). $\omega = 1.636(1)$ $\epsilon = 1.631(1)$

Cell Data: Space Group: $P6_3mmc$, $P6_3mc$, or $P\overline{6}2c$. a = 10.447(3) c = 6.318(3) Z = 2

X-ray Powder Pattern: Mont Saint-Hilaire, Canada. 2.601 (10), 2.130 (6), 3.01 (5), 2.509 (5), 1.793 (5), 1.674 (5), 1.613 (5)

Chemistry:

	(1)
CO_2	[35.13]
La_2O_3	9.30
$\mathrm{Ce_2O_3}$	14.38
Pr_2O_3	1.26
Nd_2O_3	3.76
Sm_2O_3	0.48
CaO	11.81
SrO	7.65
BaO	0.46
Na_2O	15.17
Total	[99.40]

(1) Mont Saint-Hilaire, Canada; by electron microprobe, CO_2 calculated from stoichiometry, absence of $(OH)^{1-}$ and H_2O confirmed by IR; corresponds to $Na_{3.07}(Ca_{1.32}Ce_{0.55}Sr_{0.46}La_{0.36}Nd_{0.14}Pr_{0.05}Sm_{0.02}Ba_{0.02})_{\Sigma=2.92}(CO_3)_5$.

Occurrence: A rare late stage mineral associated with an intrusive alkalic gabbro-syenite complex.

Association: Ancylite-(Ce), calcite, donnayite-(Y), fluorapatite, natrolite, pyrite, rhodochrosite, rutile, "chlorite" (vent or altered pegmatite); aegirine, calcite, fluorite, galena, leucophanite, mangan-neptunite, microcline, molybdenite-2H and -3R, narsarsukite, pectolite, pyrite, schairerite, shortite, sodalite, sphalerite, thermonatrite, titanite (marble xenoliths).

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

Name: The calcium analog of burbankite.

Type Material: Canadian Museum of Nature, Ottawa, Canada, 50804.

References: (1) Van Velthuizen, J., R.A. Gault, and J.D. Grice (1995) Calcioburbankite, $Na_3(Ca, REE, Sr)_3(CO_3)_5$, a new mineral species from Mont Saint-Hilaire, Quebec, and its relationship to the burbankite group of minerals. Can. Mineral., 33, 1231–1235. (2) (1996) Amer. Mineral., 81, 1013 (abs. ref. 1).