(c)2001-2005 Mineral Data Publishing, version 1

Crystal Data: Monoclinic. Point Group: 2/m. Crystals are elongated along [010], to 1 cm; commonly in flat fan-shaped or columnar aggregates, intimately intergrown with jarlite or stenonite; massive.

Physical Properties: Fracture: Uneven. Tenacity: Brittle. Hardness = 3.5-4 D(meas.) = 3.89(1) D(calc.) = 3.94

Optical Properties: Semitransparent. *Color:* Colorless to white; colorless in transmitted light. *Streak:* White. *Luster:* Vitreous.

Optical Class: Biaxial (–). Orientation: Y = b. $\alpha = 1.436(1)$ $\beta = 1.442(1)$ $\gamma = 1.442(1)$ $2V(\text{meas.}) = 0^{\circ} - 5(5)^{\circ}$ $(2V_z)$ $2V(\text{calc.}) = 0^{\circ}$

Cell Data: Space Group: C2/m. a = 16.046(1) b = 10.971(1) c = 7.281(1) $\beta = 101.734(6)^{\circ}$ Z = 2

X-ray Powder Pattern: Ivigtut, Greenland.

3.453 (10), 3.193 (10), 3.643 (9), 3.112 (9), 2.989 (9), 2.173 (9), 7.844 (8)

Chemistry:

	(1)
Na	3.25
K	0.30
Mg	0.38
Ca	0.28
Ba	8.63
Sr	32.76
Al	10.97
F	42.50
$\rm H_2O$	[1.22]
Total	100.29

(1) Ivigtut, Greenland; by electron microprobe, average of 11 analyses, H_2O calculated from stoichiometry, $(OH)^{1-}$ confirmed by microbeam IR spectroscopy; corresponds to $Na_{1.00}(Sr_{5.52}Ba_{0.92}Na_{0.32}K_{0.12}Ca_{0.10})_{\Sigma=6.98}(Na_{0.77}Mg_{0.23})_{\Sigma=1.00}Al_6F_{33.00}(OH)_{1.00}$.

Occurrence: In vugs and as fissure fillings in a cryolite deposit with other fluorides.

Association: Jarlite, stenonite, thomsenolite, gearksutite, topaz, muscovite.

Distribution: From the Ivigtut cryolite deposit, Greenland.

Name: For Vilhelm Jørgensen (1844–1925), cofounder, in 1870, of the cryolite factory at Ivigtut, Greenland.

Type Material: University of Copenhagen, Copenhagen, Denmark, 1996.168.

References: (1) Pauly, H., F.C. Hawthorne, P.C. Burns, and G.D. Ventura (1997) Jørgensenite, $Na_2(Sr, Ba)_{14}Na_2Al_{12}F_{64}(OH, F)_4$, a new aluminofluoride mineral from Ivigtut, Greenland. Can. Mineral., 35, 175–179.