

Crystal Data: Monoclinic. *Point Group:* $2/m$. Rhombic to prismatic crystals, to 1.5 mm, and as irregular grains, in aggregates. *Twinning:* On {100}, polysynthetic.

Physical Properties: Hardness = n.d. VHN = 298–383, 339 average (25 g load).
D(meas.) = 2.58 D(calc.) = 2.59

Optical Properties: Semitransparent. *Color:* Colorless, white, pale gray; colorless in thin section. *Luster:* Vitreous.

Optical Class: Biaxial (-). *Orientation:* OAP \simeq {100}. $\alpha = 1.554\text{--}1.555$ $\beta = 1.638\text{--}1.643$
 $\gamma = 1.652\text{--}1.658$ $2V(\text{meas.}) = 43^\circ$ $2V(\text{calc.}) = 42.6^\circ$

Cell Data: *Space Group:* $P2_1/a$. $a = 8.643(6)$ $b = 9.523(2)$ $c = 3.567(3)$
 $\beta = 119.23(3)^\circ$ $Z = 4$

X-ray Powder Pattern: Fuka, Japan.

2.955 (100), 2.603 (94), 4.77 (33), 3.329 (32), 2.927 (21), 1.891 (20), 5.92 (16)

Chemistry:	(1)	(2)
B ₂ O ₃	33.83	34.85
CaO	56.21	56.13
H ₂ O	9.62	9.02
Total	99.66	100.00

(1) Fuka, Japan; by electron microprobe, B₂O₃ by wet chemistry, H₂O by LOI; corresponds to Ca_{1.00}H_{1.07}B_{0.97}O₃. (2) CaH(BO₃).

Polymorphism & Series: Dimorphous with parasibirskite.

Occurrence: In veinlets and aggregates in skarns.

Association: Calcite, “chlorite”, pyrite, garnet, vesuvianite, datolite, tourmaline, axinite (Yuliya Svintsovaya deposit, Russia); takedaite, nifontovite, olshanskyite, pentahydroborite, frolovite, parasibirskite, uralborite, borcarite, fluorite, calcite (Fuka, Japan).

Distribution: In Russia, from the Yuliya Svintsovaya Pb–Zn deposit, 20 km east-northeast of the Son railway station, Khakassia district, Siberia; at the Novofrolovskoye copper deposit, near Krasnoturinsk, Turinsk district, Northern Ural Mountains; and on the Chersk and Selenyakhsk Ridges, Transbaikal. From Fuka, near Bicchu, Okayama Prefecture, Japan.

Name: For its first-noted occurrence in Siberia.

Type Material: A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 64709.

References: (1) Vasilkova, N.N. (1962) A new calcium borate – sibirskite. *Zap. Vses. Mineral. Obshch.*, 91, 455–464 (in Russian). (2) (1963) *Amer. Mineral.*, 48, 433 (abs. ref. 1). (3) Kusachi, I., C. Henmi, and S. Kobayashi (1997) Sibirskite from Fuka, Okayama Prefecture, Japan. *Mineral. J. (Japan)*, 19, 109–114.