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Crystal Data: Hexagonal. Point Group: 6 (?). As foliated hexagonal crystals, to 1 mm; massive in veinlets and crusts.

Physical Properties: Cleavage: On $\{0001\}$, distinct, foliated. Hardness = 1–1.5 D(meas.) = 2.440(5) D(calc.) = [2.17] Hygroscopic with swelling, soluble in H_2O ; luminesces and phosphoresces blue at 77 °K and 300 °K.

Optical Properties: Transparent to translucent. *Color:* White, may have a pale rose tint. *Luster:* Pearly.

Optical Class: Biaxial (-). $\alpha = 1.574(1)$ $\beta = \text{n.d.}$ $\gamma = 1.577(1)$ 2V(meas.) = Very small.

Cell Data: Space Group: P6 (?). a = 11.86 c = 23.88 Z = [6]

X-ray Powder Pattern: Korshunovskoye deposit, Russia. 2.31 (100), 1.916 (100), 2.047 (99), 2.09 (98), 1.281 (97), 2.51 (93), 1.166 (87)

Chemistry:		(1)		(1)
	B_2O_3	38.47	K_2O	0.16
	SiO_2	0.04	F	0.00
	$\overline{\text{Fe}_2}\overline{\text{O}}_3$	0.04	Cl	11.07
	MnO	trace	$\mathrm{H_2O^+}$	14.17
	MgO	0.11	$\overline{\mathrm{H}_{2}^{-}\mathrm{O}^{-}}$	7.62
	CaO	30.67	$-O = (F, Cl)_2$	2.50
	$\mathrm{Na_2O}$	0.08	Total	99 93

(1) Korshunovskoye deposit, Russia; H_2O and borate anion confirmed by IR; corresponds to $Ca_{2.00}B_{4.04}O_7[Cl_{1.14}(OH)_{0.86}]_{\Sigma=2.00} \cdot 2.38H_2O$.

Occurrence: In calcite and calcite—anhydrite veins associated with a mineralized skarn.

Association: Halite, calcite, szaibélyite, korshunovskite, shabynite, iowaite, dashkovaite, siderite, hydromagnesite, quartz.

Distribution: From drill cores in the Korshunovskoye iron–boron skarn deposit, Irkutsk district, Siberia, Russia.

Name: Honors Dr. Yekaterina Vladimirovna Rozhkova (1898–1979), Russian mineralogist, Research Institute of Mineral Resources, Moscow, Russia.

Type Material: Mining Institute, St. Petersburg, 1224/1; A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 80173; National Museum of Natural History, Washington, D.C., USA, 160242, 160482.

References: (1) Malinko, S.V., B.P. Fitsev, N.N. Kuznetsova, and L.Y. Cherkasova (1980) Yekaterinite – a new boron mineral. Zap. Vses. Mineral. Obshch., 109, 469–476 (in Russian). (2) (1981) Amer. Mineral., 66, 437 (abs. ref. 1).