

Crystal Data: n.d. *Point Group:* n.d. Needles, of micron size, aggregated in concretions.

Physical Properties: Hardness = ~5 D(meas.) = 2.23-2.40 D(calc.) = n.d.

Optical Properties: Semitransparent. *Color:* White to yellow.

Optical Class: n.d. *Orientation:* Elongation positive, extinction parallel. $\alpha = 1.547$ $\beta = \text{n.d.}$
 $\gamma = 1.571$ 2V(meas.) = n.d.

Cell Data: *Space Group:* n.d. Z = n.d.

X-ray Powder Pattern: Boevskoye deposit, Russia.

11.0 (10), 2.42 (9), 3.17 (8), 1.957 (8), 1.395 (8), 4.06 (6), 2.68 (6b)

Chemistry:

	(1)	(2)	(3)
P ₂ O ₅	36.99	34.02	41.37
CO ₂	1.88	2.14	
SiO ₂	0.00	0.95	
Al ₂ O ₃	0.95	0.00	
Fe ₂ O ₃	0.00	0.60	
BeO	28.97	29.46	29.16
MgO	0.00	trace	
CaO	14.11	12.72	16.34
F	0.00	0.12	
H ₂ O	13.70	13.70	13.13
insol.	2.90	n.d.	
Total	99.50		100.00

(1) Boevskoye deposit, Russia; corresponds to Ca_{0.86}Be_{3.94}[(PO₄)_{1.79}(CO₃)_{0.15}(AlO₄)_{0.06}]_{Σ=2.00}(OH)_{3.63}•0.80H₂O. (2) Do.; Fe₂O₃ considered to be "limonite"; corresponds to Ca_{0.84}Be_{4.28}[(PO₄)_{1.76}(CO₃)_{0.18}(SiO₄)_{0.06}]_{Σ=2.00}[(OH)_{4.34}F_{0.02}]_{Σ=4.36}•0.62H₂O. (3) CaBe₄(PO₄)₂(OH)₄•0.5H₂O.

Occurrence: As segregations in mica-fluorite greisen in illite rocks (Boevskoye deposit, Russia).

Association: Moraesite, fluorite, rutile, "limonite", quartz, mica-clay minerals (Boevskoye deposit, Russia); mitridatite, moraesite, siderite, tourmaline, albite (Paris, Maine, USA).

Distribution: In Russia, from the Boevskoye phenakite-beryl deposit, 35 km southwest of Kamensk-Ural'skii, Ural Mountains. In the Mt. Mica quarry, Paris, Oxford Co., Maine, USA.

Name: From the Latin *glucinium*, *beryllium*, for its content of that element.

Type Material: Il'menskii Preserve Museum, Miass, 11344vr; Mining Institute, St. Petersburg, 118/1; A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 65901, 65902.

References: (1) Grigor'ev, N.A. (1963) Glucine, a new beryllium mineral. Zap. Vses. Mineral. Obshch., 92, 691-696 (in Russian). (2) (1964) Amer. Mineral., 49, 1152 (abs. ref. 1).