

**Crystal Data:** Monoclinic. *Point Group:* 2/m or *m*. As tangled fibrous aggregates of prismatic crystals, to 1 mm, elongated || [001] with longitudinal striations, displaying the forms {100}, {130}, and {131}; as fine incrustations.

**Physical Properties:** Hardness = n.d. D(meas.) = < 2.0 D(calc.) = 2.20

**Optical Properties:** Transparent to translucent. *Color:* White.

*Optical Class:* Biaxial (-). *Orientation:*  $Z \wedge c = 8^\circ\text{--}10^\circ$ .  $\alpha = 1.490(1)$   $\beta = \sim 1.502$   
 $\gamma = 1.502(1)$  2V(meas.) = n.d.

**Cell Data:** *Space Group:* [C2/m or Cc] (by analogy to moraesite).  $a = 8.55(2)$   
 $b = 36.90(2)$   $c = 7.13(2)$   $\beta = 97^\circ 49(30)'$   $Z = 12$

**X-ray Powder Pattern:** Bota-Burum deposit, Kazakhstan; nearly identical to moraesite.  
 6.95 (10), 3.31 (8), 4.23 (6), 3.02 (6), 2.88 (5), 2.145 (5), 1.956 (5)

**Chemistry:**

	(1)	(2)
As <sub>2</sub> O <sub>5</sub>	> 25.5	46.71
SiO <sub>2</sub>	1.64	
Al <sub>2</sub> O <sub>3</sub>	6.06	
Fe <sub>2</sub> O <sub>3</sub>	1.08	
BeO	16.75	20.33
MgO	0.61	
CaO	1.40	
H <sub>2</sub> O	> 29.0	32.96
Total		100.00

(1) Bota-Burum deposit, Kazakhstan; partial analysis by microchemical methods.

Identity depends on the correspondence of the X-ray powder pattern with moraesite.

(2) Be<sub>2</sub>(AsO<sub>4</sub>)(OH)•4H<sub>2</sub>O.

**Occurrence:** As a secondary mineral formed during the oxidation of an arsenic-bearing metal sulfide deposit associated with a felsite porphyry containing beryl.

**Association:** Pharmacosiderite, arseniosiderite, scorodite–mansfieldite, conichalcite, tyrolite, sodium uranospinite, metazeunerite, arsenopyrite, molybdenite, galena, pyrite, sphalerite, realgar, orpiment, uraninite, beryl.

**Distribution:** Found in the Bota-Burum uranium deposit, 15 km south of Alakol' Lake, Chu-Ili Mountains, Kazakhstan.

**Name:** For BEryllium and ARSenic in the composition.

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

**References:** (1) Kopchenova, E.B. and G.A. Sidorenko (1962) Bearsite – an arsenic analogue of moraesite. Zap. Vses. Mineral. Obshch., 91, 442–446 (in Russian). (2) (1963) Amer. Mineral., 48, 210–211 (abs. ref. 1).