

**Crystal Data:** Orthorhombic. *Point Group:* 2/m 2/m 2/m. As equant grains to 2 mm, rarely tabular.

**Physical Properties:** *Cleavage:* None. *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = 7 VHN = 1018 (50 g load). D(meas.) = 3.78(1) D(calc.) = 3.79

**Optical Properties:** Transparent to translucent. *Color:* White to colorless. *Streak:* White. *Luster:* Vitreous, slightly greasy. Bright blue fluorescence in short-wave UV. *Optical Class:* Biaxial (-).  $\alpha = 1.649(2)$   $\beta = 1.656(2)$   $\gamma = 1.656(2)$   $2V(\text{meas}) = 5(3)^\circ$   $2V(\text{calc}) = 0^\circ$  *Dispersion:* None. *Pleochroism:* None.

**Cell Data:** *Space Group:* Pnma.  $a = 8.141(2)$   $b = 8.176(2)$   $c = 9.038(2)$   $Z = 4$

**X-ray Powder Pattern:** Dara-i-Pioz glacier, Alai mountain range, Tien Shan, northern Tajikistan. 3.62 (100), 2.021 (70), 6.07 (60), 3.39 (60), 2.83 (50), 2.481 (40), 4.86 (30)

<b>Chemistry:</b>	(1)
BaO	43.64
PbO	0.42
B <sub>2</sub> O <sub>3</sub>	19.92
<u>SiO<sub>2</sub></u>	<u>34.86</u>
Total	98.84

(1) Dara-i-Pioz glacier, Alai mountain range, Tien Shan, northern Tajikistan; electron microprobe analysis, corresponding to (Ba<sub>0.99</sub>Pb<sub>0.01</sub>) $\Sigma=1.00$ B<sub>1.99</sub>Si<sub>2.01</sub>O<sub>8</sub>.

**Occurrence:** In a slightly rounded block of pegmatite in syenite within a boulder in the moraine of the Dara-i-Pioz glacier, Alai mountain range, Tien Shan, northern Tajikistan. The Dara-i-Pioz massif at the head of the glacier contains B-rich alkaline rocks and pegmatites.

**Association:** Quartz, microcline, aegirine, with subordinate arfvedsonite, polyolithionite, reedmergnerite, cesium-kupletskite, hyalotekite, albite.

**Distribution:** Dara-i-Pioz glacier, Alai mountain range, Tien Shan, northern Tajikistan.

**Name:** Honors Bulgarian mineralogist Mikhael Naidenovich Maleev (b. 1940).

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

**References:** (1) Pautov, L.A., A.A. Agakhanov, E. Sokolova, and F.C. Hawthorne (2004) Maleevite, BaB<sub>2</sub>Si<sub>2</sub>O<sub>8</sub>, and pekovite, SrB<sub>2</sub>Si<sub>2</sub>O<sub>8</sub>, new mineral species from the Dara-i-Pioz alkaline massif, northern Tajikistan: description and crystal structure. *Can. Mineral.*, 42, 107–119. (2) (2005) *Amer. Mineral.*, 90, 272–273 (abs. ref. 1).