

Crystal Data: Monoclinic. *Point Group:* $2/m$. As thin tabular crystals to 0.1 mm.

Physical Properties: *Cleavage:* Good on {001}. *Fracture:* Splintery. *Tenacity:* Brittle.
Hardness = < 6 D(meas.) = n.d. D(calc.) = 2.41

Optical Properties: Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous.
Optical Class: Biaxial (-). $\alpha = 1.495(1)$ $\beta = 1.543(1)$ $\gamma = 1.544(1)$ $2V(\text{meas.}) = 7.3(2)^\circ$
 $2V(\text{calc.}) = 16^\circ$ *Orientation:* $X \sim \parallel c$, $Y \sim \parallel a$, $Z \parallel b$; optical plane = (100).

Cell Data: *Space Group:* $P2_1/n$. $a = 4.8507(2)$ $b = 16.6156(6)$ $c = 20.5445(7)$ $\beta = 90.245(1)^\circ$
 $Z = 4$

X-ray Powder Pattern: Calculated.

3.234 (100), 4.104 (90), 3.424 (83), 2.184 (38), 2.405 (37), 3.119 (32), 2.425 (31)

Chemistry:	(1)	(2)
SiO ₂	20.70	20.11
Al ₂ O ₃	32.91	34.13
B ₂ O ₃	22.90	23.30
K ₂ O	5.36	7.88
CaO	11.04	9.39
Na ₂ O	4.08	5.19
<u>Cs₂O</u>	<u>2.20</u>	<u> </u>
Total	99.19	100.00

(1) Capranicaite, Viterbo Province, Italy; average of 4 electron microprobe analyses supplemented by FTIR analysis; corresponding to $(\text{K}_{0.69}\text{Cs}_{0.10})_{\Sigma=0.79}(\text{Ca}_{1.19}\text{Na}_{0.80})_{\Sigma=1.99}\text{Al}_{3.91}\text{B}_{3.99}\text{Si}_{2.09}\text{O}_{18}$.

(2) $(\text{K}, \square)(\text{Ca}, \text{Na})\text{Al}_4\text{B}_4\text{Si}_2\text{O}_{18}$.

Occurrence: A late-stage metasomatic product inside miarolitic cavities in a block of feldspathoid-bearing syenite in an ignimbrite unit ejected from a complex volcano.

Association: K-feldspars, plagioclase, andradite, hornblende, biotite, magnetite, a member of the sodalite-häüyne series, titanite, apatite, zircon, a B-Be-Si phase.

Distribution: From the Vico volcanic complex, Capranica, Latium, Viterbo province, Italy.

Name: For the locality that produced the first specimens.

Type Material: Mineralogical Museum, Rome University, Italy (MMUR 33036/1).

References: (1) Callegari, A.M., M. Boiocchi, F. Bellatreccia, E. Caprilli, O. Medenbach, and A. Cavallo (2011) Capranicaite, $(\text{K}, \square)(\text{Ca}, \text{Na})\text{Al}_4\text{B}_4\text{Si}_2\text{O}_{18}$: a new inosilicate from Capranica, Italy, with a peculiar topology of the periodic single chain $[\text{Si}_2\text{O}_6]$. *Mineral. Mag.*, 75(1), 33-43.

(2) (2011) *Amer. Mineral.*, 96, 1909 (abs. ref. 1).