

Crystal Data: Hexagonal. *Point Group:* $6/m\ 2/m\ 2/m$. As hexagonal prismatic crystals to 0.5 mm.

Physical Properties: *Cleavage:* Parting on {001}. *Tenacity:* Brittle. *Fracture:* n.d.
Hardness = n.d. $D(\text{meas.}) = 2.79(3)$ $D(\text{calc.}) = 2.817$

Optical Properties: Transparent. *Color:* Light blue. *Streak:* White. *Luster:* Vitreous.
Optical Class: Uniaxial (-). $\epsilon = 1.619(3)$ $\omega = 1.625(3)$
Pleochroism: Weak, colorless to very light blue.

Cell Data: *Space Group:* $P6/mcc$. $a = 9.397(1)$ $c = 9.202(2)$ $Z = 1$

X-ray Powder Pattern: Capranica, Vico volcanic complex, Latium, Italy.
3.278 (vs), 8.12 (s), 2.903 (s), 4.00 (m), 2.553 (mw), 1.752 (mw), 4.60 (w)

Chemistry:	(1)
SiO ₂	59.13
Al ₂ O ₃	1.80
Fe ₂ O ₃	18.36
Sc ₂ O ₃	0.08
TiO ₂	0.11
MgO	2.21
MnO	0.41
SnO ₂	0.03
Na ₂ O	2.47
K ₂ O	0.08
Cs ₂ O	0.19
BeO	14.59
H ₂ O	[2.98]
Total	102.44

(1) Capranica, Vico volcanic complex, Latium, Italy; average electron microprobe analysis, H₂O calculated; corresponding to
 $(\text{Fe}^{3+}_{2.70}\text{Mg}_{0.64}\text{Al}_{0.42}\text{Mn}_{0.06}\text{Ti}_{0.02}\text{Sc}_{0.02})_{\Sigma=3.86}\text{Be}_{6.00}(\text{Si}_{11.60}\text{Be}_{0.88})_{\Sigma=12.48}\text{O}_{36} \cdot 2\text{H}_2\text{O}(\text{Na}_{0.94}\text{Cs}_{0.02}\text{K}_{0.02})_{\Sigma=0.98}$.

Mineral Group: Beryl group.

Occurrence: In miarolitic cavities in syenitic volcanic ejecta.

Association: Biotite, quartz, sanidine, hematite, danburite, helvite, hellandite, allanite-(Ce).

Distribution: From Capranica, Vico volcanic complex, Latium, Italy.

Name: Honors Dr. Francesco Saverio *Stoppani* (b. 1947), an amateur mineral collector active in the volcanic regions of Latium.

Type Material: Museum of Mineralogy, University of Rome, Italy (MMUR-29900/1) and Natural History Museum, Paris, France (198.14).

References: (1) Della Ventura, G., P. Rossi, G.C. Parodi, A. Mottana, M. Raudsepp, and M. Prencipe (2000) Stoppaniite, $(\text{Fe,Al,Mg})_4(\text{Be}_6\text{Si}_{12}\text{O}_{36}) \cdot (\text{H}_2\text{O})_2(\text{Na}, \square)$ a new mineral of the beryl group from Latium (Italy). *Eur. J. Mineral.*, 12, 121-127. (2) (2000) *Amer. Mineral.*, 85, 1845 (abs. ref. 1). (3) Ferraris, G., M. Prencipe, and P. Rossi (1998) Stoppaniite, a new member of the beryl group: crystal structure and crystal-chemical implications. *Eur. J. Mineral.*, 10, 491-496. (4) (1999) *Amer. Mineral.*, 84, 1687 (abs. ref. 3).