

Crystal Data: Monoclinic. *Point Group:* n.d. Crystals are needlelike or laths, elongated along [100] and flattened on {001}, to more than 3 mm, in fibrous masses and aggregates.

Physical Properties: *Cleavage:* On {010}, distinct. Hardness = n.d. D(meas.) = 2.32 D(calc.) = [2.37] Soluble in H_2O , taste bitter and acid.

Optical Properties: Transparent to translucent. *Color:* Grayish white; colorless in transmitted light. *Luster:* Pearly to silky.

Optical Class: Biaxial (+). *Orientation:* $Z = b$; $X \wedge c = 29^\circ$. $\alpha = 1.475(3)$ $\beta = 1.480(3)$ $\gamma = 1.487(3)$ $2V(\text{meas.}) = \text{Large}$.

Cell Data: *Space Group:* n.d. $a = 23.00$ $b = 7.104$ $c = 8.710$ $\beta = 102.66^\circ$ $Z = [2]$

X-ray Powder Pattern: Cape Miseno, Italy. (ICDD 41-1363).

4.24 (100), 3.648 (57), 4.92 (43), 4.83 (37), 3.592 (33), 3.490 (27), 2.892 (27)

Chemistry:

	(1)	(2)
SO_3	56.45	56.54
Al_2O_3		trace
K_2O	38.32	38.01
H_2O	5.23	5.45
Total	[100.00]	100.00

(1) Cape Miseno, Italy; recalculated to 100% after deduction of an unstated amount of hygroscopic H_2O . (2) $\text{H}_6\text{K}_8(\text{SO}_4)_7$.

Occurrence: Very rarely formed under fumarolic conditions.

Association: Potassium alum, alunogen, halotrichite, metavoltine, pickeringite, sulfur, tamarugite, voltaite (Cape Miseno, Italy).

Distribution: From the Grotto del Solfo fumarole, Cape Miseno, Campi Flegrei, near Naples, and on Vesuvius, Campania, Italy.

Name: For its occurrence on Cape Miseno, Italy.

Type Material: Natural History Museum, Paris, France, 100781; The Natural History Museum, London, England, 60393.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 396–397.