

**Crystal Data:** Hexagonal. *Point Group:* 32. As minute hexagonal prisms terminated by the base or a pyramid, in crusts.

**Physical Properties:** Hardness = n.d.  $D(\text{meas.}) = 2.755$   $D(\text{calc.}) = 2.74$  Slightly soluble in H<sub>2</sub>O.

**Optical Properties:** Semitransparent. *Color:* Pale rose.  
*Optical Class:* Uniaxial (-).  $n = \sim 1.31$ , birefringence weak.

**Cell Data:** *Space Group:* P321 (synthetic).  $a = 8.859(2)$   $c = 5.038(2)$   $Z = 3$

**X-ray Powder Pattern:** Synthetic.  
4.429 (100), 4.213 (95), 3.331 (90), 2.281 (90), 1.7962 (55), 3.056 (30), 1.6629 (20)

**Chemistry:** No analyses have been performed; the composition has been established through analogy to synthetic material.

**Occurrence:** As a volcanic sublimate.

**Association:** Avogadrite, hieratite, sal ammoniac, ferruccite, sassolite (Vesuvius, Italy); barberiite, sassolite (Vulcano, Italy).

**Distribution:** In Italy, from Vesuvius, Campania, and on Vulcano, Lipari Islands.

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**Type Material:** University of Florence, Florence, Italy, 226/1.

**References:** (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 105–106. (2) Zalkin, A., J.D. Forrester, and D.H. Templeton (1964) The crystal structure of sodium fluosilicate. *Acta Cryst.*, 17, 1408–1412. (3) (1979) NBS Mono. 25, 16, 68.