

**Crystal Data:** Tetragonal. *Point Group:* 4mm.

**Physical Properties:** *Cleavage:* *Tenacity:* *Fracture:*  
Hardness = D(meas.) = D(calc.) =

**Optical Properties:** *Color:* *Streak:* *Luster:*  
*Optical Class:*

**Cell Data:** *Space Group:* P4bm.  $a = 14.5957(2)$   $c = 8.3433(2)$

**X-Ray Diffraction Pattern:** Arsenatnaya fumarole, Tolbachik volcano, Kamchatka, Russia.  
2.747 (100), 3.180 (61), 5.156 (47), 8.32 (44), 2.709 (36), 3.246 (34), 2.580 (29)

**Chemistry:**

**Polymorphism & Series:**

**Mineral Group:**

**Occurrence:** A sublimate in active volcanic fumaroles.

**Association:**

**Distribution:** From the Arsenatnaya fumarole, Second scoria cone, Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka, Russia.

**Name:**

**Type Material:** A.E. Fersman Mineralogical Museum, RAS, Moscow, Russia (5031/1).

**References:** (1) Hålenius, U., F. Hatert, M. Pasero, and S.J. Mills (2017) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 38. New minerals and nomenclature modifications approved in 2017. *Mineral. Mag.*, 81(4), 1038.