

## Achyrophanite



**Crystal Data:** Orthorhombic. *Point Group:* 222.

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

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

**Cell Data:** *Space Group:* P222<sub>1</sub>. *a* = 6.5824(2) *b* = 13.2488(4) *c* = 10.7613(3)

**X-Ray Diffraction Pattern:** Arsenatnaya fumarole, Tolbachik volcano, Kamchatka peninsula, Far-Eastern Region, Russia.  
2.814 (100), 5.615 (59), 2.852 (43), 4.174 (42), 3.148 (33), 3.669 (31), 2.689 (29), 2.237 (28)

**Chemistry:**

**Polymorphism & Series:**

**Mineral Group:**

**Occurrence:**

**Association:**

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

**Name:**

**Type Material:** A.E. Fersman Mineralogical Museum, RAS, Moscow, Russia (5029/1).

**References:** (1) Hålenius, U., F. Hatert, M. Pasero, and S.J. Mills (2018) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 43. New minerals and nomenclature modifications approved in 2018. *Mineral. Mag.*, 82(3), 783.