## Khrenovite $Na_3Fe^{3+}_2(AsO_4)_3$

**Crystal Data**: Monoclinic. *Point Group*: 2/*m*.

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

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

**Cell Data**: *Space Group*: *C*2/*c*. $a$ = 12.2394(7) $b$ = 12.7967(5) $c$ = 6.6589(4) $\beta$ = 112.953 (7)°

**X-Ray Diffraction Pattern**: Arsenatnaya fumarole, Tolbachik volcano, Kamchatka Peninsula, Far-Eastern Region, Russia.
2.785 (100), 3.198 (62), 2.824 (60), 6.40 (48), 5.639 (48), 3.582 (41), 2.939 (33)

**Chemistry**:

**Polymorphism & Series**:

**Mineral Group**: Alluaudite supergroup, alluaudite group - arsenates.

**Occurrence**: A sublimate at an active volcanic fumarole.

**Association**:

**Distribution**: From the Arsenatnaya fumarole, Second scoria cone of the 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 (5028/1).

**References**: (1) Hålenius, U., F. Hatert, M. Pasero, and S.J. Mills (2018) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 42. New minerals and nomenclature modifications approved in 2018. Mineral. Mag., 82(2), 448. (2) Hatert, F. (2019) A new nomenclature scheme for the alluaudite supergroup. Eur. J. Mineral., 31, 807-822.