Kalithallite $K_3Tl^{3+}Cl_6 \cdot 2H_2O$

Crystal Data: Tetragonal. *Point Group*: 4/*m* 2/*m* 2/*m*.

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

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

Cell Data: *Space Group*: *I*4/*mmm*. a = 15.9336(6) c = 18.1018(8)

X-Ray Diffraction Pattern: Tolbachik volcano, Kamchatka Peninsula, Far-Eastern Region, Russia. 5.981 (100), 5.636 (36), 3.528 (30), 2.817 (24), 3.315 (22), 3.984 (20), 2.890 (15)

Chemistry:

Polymorphism & Series:

Mineral Group:

Occurrence: A sublimate at an active volcanic fumarole.

Association:

Distribution: From the Northern fumarole field, First 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 (5066/1).

References: (1) Hålenius, U., F. Hatert, M. Pasero, and S.J. Mills (2017) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 39. New minerals and nomenclature modifications approved in 2017. Mineral. Mag., 81(5), 1280.