

Crystal Data: Monoclinic. *Point Group:* 2/m. As elongated platy crystals to 50 μm in spherulitic aggregates to 300 μm .

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

Optical Properties: [Transparent.] *Color:* Colorless. *Streak:* n.d. *Luster:* Vitreous.
Optical Class: n.d.

Cell Data: *Space Group:* $P2_1/c$. $a = 11.2450(8)$ $b = 9.0963(5)$ $c = 14.068(1)$ $\beta = 113.237(8)^\circ$
 $Z = 2$

X-Ray Diffraction Pattern: Daba-Siwaqa area, ~80 km south of Amman, Jordan.
3.833 (100), 10.311 (81), 2.952 (67), 5.455 (59), 2.661 (57), 2.908 (55), 3.408 (42)

Chemistry: (1) Khurayyim Mount (Jabal al Khurayyim), northern Daba-Siwaqa area, ~80 km south of Amman, Jordan; average electron microprobe and Raman spectroscopic analyses; corresponds to $\text{Ca}_{7.07}\text{Zn}_{3.89}\text{Si}_{4.02}\text{O}_{14}(\text{OH})_{10}\cdot 4\text{H}_2\text{O}$.

Occurrence: In cavities and veins in altered spurrite marbles of pyrometamorphic origin.

Association: Calcite, jennite, foshagite, minerals of the tobermorite group and ettringite-thaumasite series.

Distribution From near Khurayyim Mount (Jabal al Khurayyim), northern Daba-Siwaqa area, ~80 km south of Amman, Jordan.

Name: For *Khurayyim* Mount (Jabal al Khurayyim), Um Al-Rasas Sub-district, central Jordan.

Type Material: A.E. Fersman Mineralogical Museum, RAS, Moscow, Russia (5298/1).

References: (1) Galuskina, I.O., B. Krüger, E.V. Galuskin, Y. Vapnik, and M. Murashko (2019) A new mineral khurayyimite, $\text{Ca}_{7.07}\text{Zn}_{3.89}\text{Si}_{4.02}\text{O}_{14}(\text{OH})_{10}\cdot 4\text{H}_2\text{O}$, from Daba Siwaqa pyrometamorphic rock, Jordan. In XIX International Meeting on Crystal Chemistry, X-ray Diffraction and Spectroscopy of Minerals, 78 (abs.). (2) Miyawaki R., F. Hatert, M. Pasero, and S.J. Mills (2019) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 45. New minerals and nomenclature modifications approved in 2019. Mineral. Mag., 83(2), 316.