

Crystal Data: Monoclinic. *Point Group:* 2/m. As doubly terminated crystals flattened on (010), with striations along [001] to 0.3 mm.

Physical Properties: *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Irregular. Hardness = ~3.5 VHN = 163-178, 171 average (25 g load). D(meas.) = n.d. D(calc.) = 2.598

Optical Properties: Transparent. *Color:* Colorless to white. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Biaxial (-). $\alpha = 1.545(2)$ $\beta = 1.552(2)$ $\gamma = 1.554(2)$ 2V(meas.) = 45(5)° 2V(calc.) = 50° *Orientation:* $Z \approx b$, $X \wedge c \approx 13^\circ$. *Dispersion:* Weak, $r > v$.

Cell Data: *Space Group:* $P2_1/c$. $a = 6.3889(8)$ $b = 10.9692(14)$ $c = 5.7588(8)$ $\beta = 101.949(14)^\circ$ $Z = 2$

X-ray Powder Pattern: Daba-Siwaqa region, 70 km southeast of Amman, Jordan. 2.881 (100), 3.124 (47), 6.25 (33), 2.723 (28), 3.992 (23), 1.575 (20), 5.002 (14)

Chemistry:	(1)
CaO	17.69
ZnO	52.66
H ₂ O	[28.91]
Total	99.26

(1) Daba-Siwaqa region, 70 km southeast of Amman, Jordan; average of 10 electron microprobe analyses supplemented by Raman spectroscopy, H₂O calculated from stoichiometry; corresponds to Ca_{0.98}Zn_{2.02}(OH)₆•2H₂O.

Occurrence: In altered pyrometamorphic spurrite marbles in secondary low-temperature (<70 °C) veins exclusively in cuspidine zones with large spurrite crystal relics.

Association: Se-bearing thaumasite, calcite, aflowillite, barite, sometimes replaces sphalerite.

Distribution: From the Daba-Siwaqa region, Um Al-Rasas Sub-district, 70 km southeast from Amman, Jordan.

Name: For Al *Qatrana* village, on the Amman-Aqaba highway, 15 km southeast of the type locality.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (4855/1).

References: (1) Vapnik, Y., E.V. Galuskin, I.O. Galuskina, J. Kusz, M. Stasiak, T. Krzykowski, and M. Dulski (2019) Qatranaite, CaZn₂(OH)₆•2H₂O: a new mineral from altered pyrometamorphic rocks of the Hatrurim Complex, Daba-Siwaqa, Jordan. *Eur. J. Mineral.*, 31(3), 575-584. (2) (2021) *Amer. Mineral.*, 106, 163-164 (abs. ref. 1).