Mariakrite $[Ca_4Al_2(OH)_{12}(H_2O)_4][Fe_2S_4]$

Crystal Data: Triclinic. *Point Group*: $\bar{1}$.

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

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

Cell Data: *Space Group: P*$\bar{1}$. a = 5.7107(2) b = 9.9952(4) c = 10.9095(4) α = 98.678(3)° β = 90.100(3)° γ = 90.019(3)°

X-Ray Diffraction Pattern: Near Hatrurim Junction, Hatrurim Basin, Negev Desert, Israel. 10.83 (100), 5.42 (75), 9.90 (39), 2.856 (37), 2.400 (23), 3.96 (22), 2.241 (20)

Chemistry:

Polymorphism & Series:

Mineral Group: Hydrotalcite supergroup.

Occurrence:

Association:

Distribution: From ~2 km southeast of the Hatrurim Junction (road no. 31), Hatrurim Basin, Negev Desert, Israel.

Name:

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (5694/1).

References: (1) Miyawaki, R., F. Hatert, M. Pasero, and S.J. Mills (2022) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 65. Eur. J. Mineral., 34, 147.