

Crystal Data: Monoclinic. *Point Group:* 2/m. As prismatic crystals to 0.2 mm and as later zones on long prismatic crystals of latiumite. *Twining:* Polysynthetic or simple on (100).

Physical Properties: *Cleavage:* Good on (100). *Tenacity:* Brittle. *Fracture:* n.d.
Hardness = 5 VHN = 550-611, 580 average (50 g load). D(meas.) = n.d. D(calc.) = 2.957

Optical Properties: *Color:* Colorless. *Streak:* n.d. *Luster:* Vitreous.
Optical Class: Biaxial (-). $\alpha = 1.608(2)$ $\beta = 1.618(2)$ $\gamma = 1.622(2)$ $2V(\text{meas.}) = 70(5)^\circ$
 $2V(\text{calc.}) = 64.3^\circ$ *Dispersion:* $r > v$, weak. *Orientation:* $Z = b$, $X \wedge c = 22-27^\circ$. Non-pleochroic.

Cell Data: *Space Group:* $P2_1$. $a = 12.1006(9)$ $b = 5.1103(4)$ $c = 10.8252(9)$ $\beta = 107.237(8)^\circ$ $Z = 2$

X-Ray Diffraction Pattern: Har Parsa, Negev Desert, Israel.
3.0762 (100), 2.8551 (96), 2.9704 (92), 2.8573 (83), 2.5552 (66), 2.8228 (48), 2.8893 (40)

Chemistry:	(1)
SO ₃	4.94
P ₂ O ₅	8.86
SiO ₂	28.45
Fe ₂ O ₃	2.03
Al ₂ O ₃	18.45
BaO	0.19
CaO	29.15
MgO	0.18
K ₂ O	7.76
Na ₂ O	0.05
Total	100.06

(1) Har Parsa, Negev Desert, Israel; average electron microprobe analysis supplemented by Raman spectroscopy corresponds to $(\text{K}_{0.94}\text{Ba}_{0.01}\text{Na}_{0.01}\square_{0.04})_{\Sigma=1.00}(\text{Ca}_{2.96}\text{Mg}_{0.03})_{\Sigma=2.99}\{(\text{Si}_{2.69}\text{Al}_{2.06}\text{Fe}^{3+}_{0.16}\text{P}_{0.06})_{\Sigma=4.97}\text{O}_{11}\}[(\text{PO}_4)_{0.65}(\text{SO}_4)_{0.35}]_{\Sigma=1.00}$.

Polymorphism & Series: Forms a series with latiumite.

Mineral Group: Latiumite group.

Occurrence: In pyrometamorphic gehlenite-wollastonite hornfels.

Association: Gehlenite, wollastonite, clinopyroxene of the esseneite-diopside series, anorthite, Ti-bearing andradite.

Distribution: On the northern slope of Har Parsa, Negev Desert, near Arad, Israel.

Name: For the *Levant* region, a geographical term referring to an area in the eastern Mediterranean that includes parts of Israel, Jordan, Palestine, Lebanon, Syria, Iraq, Cyprus, and Turkey.

Type Material: A.E. Fersman Mineralogical Museum, RAS, Moscow, Russia (4898/1).

References: (1) Galuskin, E.V., B. Krüger, I.O. Galuskina, H. Krüger, Y. Vapnik, A. Pauluhn, and V. Olieric (2019) Levantite, KCa₃(Al₂Si₃)O₁₁(PO₄), a new latiumite-group mineral from the pyrometamorphic rocks of the Hatrurim Basin, Negev Desert, Israel. *Mineral. Mag.*, 83, 713-721.