

Crystal Data: Monoclinic. *Point Group:* 2/m. Crystals are prismatic, to 100 μm, in subparallel aggregates. *Twinning:* Indistinct lamellar twinning parallel to {001} was observed optically.

Physical Properties: *Cleavage:* None. *Fracture:* Irregular. *Tenacity:* Brittle. Hardness = 4.5
D(meas.) = n.d. D(calc.) = 2.99

Optical Properties: Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous.
Optical Class: Biaxial (-). $\alpha = 1.607(1)$ $\beta = 1.634(1)$ $\gamma = 1.637(1)$
2V(meas.) = Small. 2V(calc.) = 36.4° *Orientation:* $X \approx c$; $Y \approx a$; $Z \approx b$.

Cell Data: Space Group: *I*2/m. $a = 10.3832(12)$ $b = 5.6682(7)$ $c = 10.8228(12)$
 $\beta = 90.106(11)^\circ$ $Z = 1$

X-ray Powder Pattern: Manjaka pegmatite, Madagascar (pattern very similar to boralsilite).
3.403 (100), 5.19 (99), 5.40 (96), 3.658 (75), 2.171 (75), 4.97 (74), 2.496 (61)

Chemistry:	(1)	(2)
SiO ₂	20.24	20.1
B ₂ O ₃	11.73	11.6
Al ₂ O ₃	64.77	68.2
BeO	1.03	
MnO	0.01	
FeO	0.13	
Li ₂ O	1.40	
Total	99.31	100.0

(1) Manjaka pegmatite, Sahatany Valley, Madagascar; electron microprobe analysis supplemented by laser ablation-inductively coupled plasma-mass spectroscopy and Raman spectroscopy; corresponds to (Al_{14.65}Li_{1.08}Be_{0.47}Fe_{0.02}) $\Sigma=16.22$ B_{3.89}Si_{3.88}O_{36.62}. (2) Al₁₆B₄Si₄O₃₈.

Occurrence: A breakdown product of spodumene in an elbaite-subtype granitic pegmatite.

Association: Albite, K-feldspar, spodumene.

Distribution: From the Manjaka pegmatite, Sahatany Valley, Madagascar.

Name: Honors Stanislav Vrána (born 1936), a scientist with the Czech Geological Survey, for his work on the petrology and mineralogy of borosilicate minerals.

Type Material: Natural History Museum of Los Angeles County, Los Angeles, California, USA (65609) and the Department of Mineralogy and Petrography, Moravian Museum, Brno, Czech Republic (B11277 and B11278).

References: (1) Cempírek, J., E.S. Grew, A.R. Kampf, C. Ma, M. Novák, P. Gadas, R. Škoda, M. Vašinová-Galiová, F. Pezzotta, L.A. Groat, and S.V. Krivovichev (2016) Vránaite, ideally Al₁₆B₄Si₄O₃₈, a new mineral related to boralsilite, Al₁₆B₆Si₂O₃₇, from the Manjaka pegmatite, Sahatany Valley, Madagascar. *Amer. Mineral.*, 101, 2108-2117.