

Crystal Data: Triclinic. *Point Group:* $\bar{1}$. As flattened prisms to 2 mm; typically, with rounded faces with craterlike depressions.

Physical Properties: *Cleavage:* Good on {001}. *Tenacity:* Brittle. *Fracture:* Irregular. Hardness = 1.5-2 D(meas.) = 2.43(2) D(calc.) = 2.442

Optical Properties: Translucent to transparent. *Color:* Orange-yellow. *Streak:* Yellow. *Luster:* Vitreous.

Optical Class: Biaxial. $\alpha = 1.764(3)$ $\beta = \text{n.d.}$ $\gamma > 1.81$ $2V = \text{n.d.}$ $n(\text{calc.}) = 1.816$

Orientation: $X \approx a$; Y probably $\approx c^*$. *Pleochroism:* None.

Cell Data: *Space Group:* $P\bar{1}$. $a = 8.779(2)$ $b = 10.311(2)$ $c = 12.060(2)$ $\alpha = 96.740(4)^\circ$ $\beta = 107.388(5)^\circ$ $\gamma = 114.439(6)^\circ$ $Z = 1$

X-ray Powder Pattern: Burro mine, Slick Rock district, San Miguel County, Colorado, USA. 11.06 (100), 7.71 (94), 9.02 (46), 8.10 (21), 2.0750 (19), 7.50 (17), 2.778 (16)

Chemistry:	(1)	(2)	(3)
(NH ₄) ₂ O	4.11	3.54	3.88
Na ₂ O	0.49	0.42	
CaO	9.14	7.88	8.35
V ₂ O ₅	78.74	67.84	67.67
H ₂ O	7.52	[20.32]	20.11
Total	100.00	100.00	100.00

(1) Burro mine, Slick Rock district, San Miguel County, Colorado, USA; average of 8 electron microprobe analyses, H₂O by difference. (2) Analysis 1 normalized with H₂O from structure analysis; $[\text{Ca}_{1.88}(\text{NH}_4)_{1.82}\text{Na}_{0.18}]_{\Sigma=3.88}(\text{H}_{0.23}\text{V}^{5+}_{10}\text{O}_{28}) \cdot 15\text{H}_2\text{O}$. (3) $\text{Ca}_2(\text{NH}_4)_2(\text{V}_{10}\text{O}_{28}) \cdot 15\text{H}_2\text{O}$.

Occurrence: From the oxidation of montroseite-corvusite assemblages in a moist environment. The NH₄⁺ presumably from organic matter in this roll-front uranium and vanadium deposit in sandstone.

Association: Schindlerite.

Distribution: From the Burro mine, Slick Rock district, San Miguel County, Colorado, USA.

Name: For the type locality, the *Burro* mine, Colorado, USA.

Type Material: Natural History Museum of Los Angeles County, Los Angeles, California, USA (66299, 66300).

References: (1) Kampf, A.R., B.P. Nash, J.M. Hughes, and J. Marty (2017) Burroite, $\text{Ca}_2(\text{NH}_4)_2(\text{V}_{10}\text{O}_{28}) \cdot 15\text{H}_2\text{O}$, a new decavanadate mineral from the Burro Mine, San Miguel County, Colorado. *Can. Mineral.*, 55(3), 473-481. (2) (2018) *Amer. Mineral.*, 103, 331-332 (abs. ref. 1).