

Pseudopomite

Crystal Data: Triclinic. *Point Group:* $\bar{1}$. As striated prisms and blades to ~1 mm.

Physical Properties: *Cleavage:* Probably two, fair on {100} and {001}. *Tenacity:* Brittle.

Fracture: Curved, irregular. Hardness = ~2 D(meas.) = 2.40(2) D(calc.) = 2.419

Optical Properties: Transparent (only on very thin edges). *Color:* Very dark blue-green, appearing black. *Streak:* Blue-green. *Luster:* Vitreous.

Optical Class: No discernable birefringence or pleochroism. $n \approx 1.72$ $n(\text{calc.}) = 1.736$

Cell Data: *Space Group:* $P\bar{1}$. $a = 12.2910(18)$ $b = 12.6205(15)$ $c = 20.917(3)$ $\alpha = 77.381(6)^\circ$
 $\beta = 85.965(5)^\circ$ $\gamma = 64.367(7)^\circ$ $Z = 2$

X-Ray Diffraction Pattern: Blue Streak mine, Bull Canyon, Montrose Co., Colorado, USA.
 10.94 (100), 10.00 (73), 8.86 (31), 3.074 (22), 2.953 (19), 2.890 (18), 5.32 (16)

Chemistry:	(1)	(2)
CaO	9.42	9.44
VO ₂	[23.85]	23.94
V ₂ O ₅	[39.48]	39.67
CO ₂	[2.12]	2.12
H ₂ O	[25.14]	25.13
Total	100.01	100.00

(1) Blue Streak mine, near Naturita, Bull Canyon, Montrose Co., Colorado, USA; average electron microprobe analyses, H₂O and CO₂ calculated from stoichiometry, total V apportioned between VO₂ and V₂O₅ for charge balance; normalized corresponds to Ca_{3.49}[V⁴⁺_{5.98}V⁵⁺_{9.02}O₃₇(CO₃)]·29H₂O.

(2) Ca_{3.5}[V⁴⁺₆V⁵⁺₉O₃₇(CO₃)]·29H₂O.

Mineral Group: Vanarsite family.

Occurrence: On montroseite-corvusite bearing sandstone in close association with calcite from the oxidation in a moist environment.

Association: Calcite, pomite, montroseite, corvusite, pyrite.

Distribution: From the Blue Streak mine, ~13 km west of Naturita, Bull Canyon, Montrose Co., Colorado, USA.

Name: The prefix indicates the similar appearance and composition to, and association with *pomite*.

Type Material: Natural History Museum of Los Angeles County, Los Angeles, California, USA (76155).

References: (1) Kampf, A.R., J.M. Hughes, C. Ma, J. Marty, and T.P. Rose (2022) Pomite and pseudopomite, two new carbonate-encapsulating mixed-valence polyoxovanadate minerals. *Amer. Mineral.*, 107, 2143-2149.