

**Crystal Data:** Orthorhombic. *Point Group:* 2/m 2/m 2/m. As 'hedgehog'-like spherical aggregates to 100 μm comprised of divergent fibrous crystals, to 50 μm.

**Physical Properties:** *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Splintery. Hardness = n.d. D(meas.) = n.d. D(calc.) = 2.235

**Optical Properties:** Opaque. *Color:* Dark golden in reflected light. *Streak:* Yellow-green. *Luster:* Resinous to greasy. *Optical Class:* n.d. Nonpleochroic.

**Cell Data:** *Space Group:* Pnma. *a* = 9.139(5) *b* = 10.625(7) *c* = 9.135(3) *Z* = 4

**X-Ray Diffraction Pattern:** Colima volcano, Mexico. 2.806 (100), 3.463 (73), 2.785 (70), 2.928 (67), 2.677 (63), 3.229 (57), 3.237 (53)

<b>Chemistry:</b>	(1)
S	43.29
K	39.36
V	17.41
<u>Na</u>	<u>0.43</u>
Total	100.49

(1) Colima volcano, Mexico; average electron microprobe analysis supplemented by Raman spectroscopy; corresponding to (K<sub>2.95</sub>Na<sub>0.06</sub>)<sub>Σ=3.01</sub>V<sub>1.03</sub>S<sub>3.97</sub>.

**Occurrence:** A sublimate found in an active volcanic fumarole.

**Association:** Cristobalite, arcanite, thenardite, barite, native gold, shcherbinaite, vanadium.

**Distribution:** From the Colima volcano crater, Mexico.

**Name:** For the discovery locality, the *Colima* volcano.

**Type Material:** Sociedad Mexicana de Mineralogía (Facultad de Ingeniería, Universidad Nacional Autónoma de México) (FIM 08/01).

**References:** (1) Ostrooumov, M., Y. Taran, M. Arellano-Jiménez, A. Ponce, and J. Reyes-Gasga (2009) Colimaite, K<sub>3</sub>VS<sub>4</sub> - a new potassium-vanadium sulfide mineral from the Colima volcano, State of Colima (Mexico). *Revista Mexicana de Ciencias Geológicas*, 26, 600-608.