Crystal Data: Isometric. *Point Group*: 4/*m* $\bar{3}$ 2/*m*. As irregular to flattened crystals, to 20 μm, or in films to ~ 0.5 mm.

Physical Properties: *Cleavage*: n.d. *Fracture*: n.d. *Tenacity*: n.d. Hardness = n.d. D(meas.) = n.d. D(calc.) = 6.033

Optical Properties: Opaque. *Color*: Steel-gray. *Streak*: n.d. *Luster*: Metallic. *Optical Class*: n.d.

Cell Data: *Space Group*: *Im*$\bar{3}$ *m*. *a* = 3.022(3) Z = 2

X-ray Powder Pattern: Colima volcano, State of Colima, Mexico.
2.141 (100), 1.230 (19), 1.513 (12), 8.809 (11), 0.957 (8)

Chemistry:	(1)
V	87.03
Fe	10.24
Al	2.21
Ti	0.49
Total	99.97

(1) Colima volcano, State of Colima, Mexico; average of 4 electron microprobe analyses; corresponds to $(V_{0.86}Fe_{0.09}Al_{0.04}Ti_{0.01})_{\Sigma=1.00}$.

Occurrence: In sublimates from high-temperature (550-680° C) volcanic gases at active fumaroles.

Association: Colimaite, shcherbinaite.

Distribution: From the "Z3 fumarole", Colima volcano, State of Colima, Mexico.

Name: The chemical element named for Vanadis, a Scandinavian goddess.

Type Material: Geological Museum, National Autonomous University of Mexico, Mexico City, Mexico (FIM 12/01).

References: (1) Ostrooumov M. and Y. Taran (2016) Vanadium, V - a new native element mineral from the Colima volcano, State of Colima, Mexico, and implications for fumarole gas composition. Mineral. Mag., 80(2), 371-382. (2) (2016) Amer. Mineral., 101, 2783 (abs. ref. 1).