

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As radial aggregates of acicular to elongate prismatic crystals to 0.28 mm.

Physical Properties: *Cleavage:* None. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.51

Optical Properties: Transparent. *Color:* Colorless to olive green-brown (due to inclusions). *Streak:* Near white. *Luster:* Vitreous. *Optical Class:* n.d.

Cell Data: *Space Group:* Pnam. $a = 10.42(2)$ $b = 5.28(2)$ $c = 10.34(2)$ $Z = 4$

X-ray Powder Pattern: Gambatesa mine, near Reppia, Liguria, northern Italy. 3.00 (S), 5.16 (M), 1.85 (M), 3.45 (W), 2.88 (W), 1.56 (W), 2.63 (VW)

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|------------------------|-------------|
| Chemistry: | (1) |
| CaO | 17.76 |
| MnO | 0.70 |
| K ₂ O | 0.35 |
| VO ₂ | 76.80 |
| <u>SiO₂</u> | <u>4.31</u> |
| Total | 99.92 |

(1) Gambatesa mine, near Reppia, Liguria, northern Italy; average electron microprobe analysis; corresponding to (Ca_{0.95}Mn_{0.03}K_{0.02})_{Σ=1.00}(V_{2.79}Si_{0.22})_{Σ=3.01}O₇.

Occurrence: Developed by tectono-metamorphic re-equilibration under prehnite-pumpellyite facies conditions in manganese deposits (braunite-bearing layers within hematite-rich cherts) near the bottom of chert sequences overlaying ophiolites.

Association: Caryopilite, calcian rhodochrosite, quartz.

Distribution: At the Gambatesa mine, near Reppia, Liguria, northern Italy.

Name: Alludes to the essential chemical elements in the composition, Calcium, Vanadium, Oxygen.

Type Material: University of Genoa, Italy.

References: (1) Basso, R., G. Lucchetti, A. Martinelli, and A. Palenzona (2003) Cavoite, CaV₃O₇, a new mineral from the Gambatesa mine, northern Apennines, Italy. *Eur. J. Mineral.*, 15, 181-184. (2) (2003) *Amer. Mineral.*, 88, 1626 (abs. ref. 1).