

Crystal Data: Monoclinic. *Point Group:* 2/m. As grains to 400 μm.

Physical Properties: *Cleavage:* None. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = 4-4.5
VHN = 150 (100 g load). D(meas.) = n.d. D(calc.) = 2.940

Optical Properties: Opaque. *Color:* Black. *Streak:* Black. *Luster:* Submetallic.
Optical Class: Anisotropic. *Birefractance:* Weak. *Pleochroism:* Very weak, gray to dark green.
R₁-R₂: (471.1) 18.5-19.0, (548.3) 17.2-17.8, (586.6) 16.8-17.5, (652.3) 16.2-16.8

Cell Data: *Space Group:* P2₁/m. *a* = 5.313(3) *b* = 10.495(3) *c* = 8.568(4) β = 91.14(5)°
Z = 2

X-ray Powder Pattern: Calculated pattern.

8.5663 (100), 3.4049 (17), 2.8339 (15), 2.6550 (15), 1.8666 (15), 6.6363 (14), 3.4399 (14)

Chemistry:	(1)	(2)
SrO	23.66	24.41
CaO	0.27	
Na ₂ O	0.07	
VO ₂	58.56	58.61
H ₂ O	[16.99]	16.98
Total	99.55	100.00

(1) Molinello mine, Val Graveglia, Italy; average of 7 electron microprobe analyses, H₂O calculated from stoichiometry and confirmed by Mössbauer spectroscopy; corresponding to (Sr_{0.97}Ca_{0.02}Na_{0.01})_{Σ=1.01}V_{3.00}O₇·4H₂O. (2) SrV₃O₇·4H₂O.

Occurrence: In a metamorphosed bedded chert and Mn ore deposit.

Association: Rhodonite, quartz, braunite.

Distribution: At the Molinello manganese mine, Val Graveglia, eastern Liguria, northern Apennines, Italy.

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Type Material: Dipartimento per lo Studio del Territorio e delle sue Risorse, Università di Genova, Italy, (M0480).

References: (1) Bindi, L., C. Carbone, R. Cabella, and G. Lucchetti (2011) Bassoite, SrV₃O₇·4H₂O, a new mineral from Molinello mine, Val Graveglia, eastern Liguria, Italy. *Mineral. Mag.*, 75, 2677-2686. (2) (2012) *Amer. Mineral.*, 97, 1525 (abs. ref. 1).