

Crystal Data: Cubic. *Point Group:* $2/m\bar{3}$. Forms anhedral grains to 100 μm .

Physical Properties: *Cleavage:* None. *Fracture:* Conchoidal. Hardness = 5
VHN = 363-536, 465 average (25 g load). $D(\text{meas.}) > 2.0$ $D(\text{calc.}) = 4.307$ Non-fluorescent.

Optical Properties: Transparent. *Color:* Dark red. *Streak:* Dark yellow, almost orange.
Luster: Vitreous.

Optical Class: Isotropic (most grains display slight anisotropy). $n(\text{calc.}) = 2.025\text{-}2.036$

Cell Data: *Space Group:* $Pa\bar{3}$. $a = 12.832(2)$ $Z = 4$

X-ray Powder Pattern: Pla de Labasse deposit, near Nabias hamlet, Central Pyrenees, France.
2.790 (100), 2.608 (100), 1.510 (99), 3.01 (87), 2.859 (82), 2.134 (53), 2.332 (44)

Chemistry	(1)
SrO	0.07
As ₂ O ₅	6.03
V ₂ O ₅	35.91
BaO	11.83
MnO	47.92
<u>H₂O</u>	<u>[1.36]</u>
Total	103.12

(1) Pla de Labasse deposit, near Nabias hamlet, Central Pyrenees, France; average of 20 electron microprobe analyses supplemented by Raman spectroscopy, H₂O calculated for 2 (OH) per formula unit; corresponds to $(\text{Mn}_{9.02}\text{Sr}_{0.01})_{\Sigma=9.03}(\text{V}_{5.27}\text{As}_{0.70})_{\Sigma=5.97}\text{O}_{24}(\text{OH})_2$.

Occurrence: In an upper-greenschist-facies metamorphosed syn-sedimentary exhalative Mn deposit in radiolarian cherts along veinlets mineralized by hydrothermal remobilization.

Association: Rhodochrosite, barite, friedelite, quartz.

Distribution: From the Pla de Labasse deposit, near Nabias hamlet, Central Pyrenees, France.

Name: For the hamlet of *Nabias* near the deposit.

Type Material: "Musée Cantonal de Géologie", Lausanne, Switzerland (MGL65000).

References: (1) Brugger, J., M. Bonin, K.J. Schenk, N. Meisser, P. Berlepsch, and A. Ragu (1999) Description and crystal structure of nabiasite, $\text{BaMn}_9[(\text{V},\text{As})\text{O}_4]_6(\text{OH})_2$, a new mineral from the Central Pyrénées (France). *Eur. J. Mineral.*, 11, 879-890. (2) (2000) *Amer. Mineral.*, 85, 875 (abs. ref. 1).