

Scheuchzerite**Crystal Data:** Triclinic. *Point Group:* $\bar{1}$. As acicular crystals to 0.5 mm along $[1\bar{1}1]$.**Physical Properties:** *Cleavage:* Good parallel elongation. *Tenacity:* Brittle. *Fracture:* n.d. Hardness = ~2.5 D(meas.) = 3.50(2) D(calc.) = 3.52**Optical Properties:** Transparent. *Color:* Yellow-orange. *Streak:* Yellow-orange. *Luster:* Vitreous. *Optical Class:* Biaxial (+). $n(\text{min.}) = 1.74$ $n(\text{max.}) = 1.75$ $n(\text{calc.}) = 1.74$
Pleochroism: Weak, $X = \text{brown-yellow}$, $Y = \text{pale yellow}$.**Cell Data:** *Space Group:* $P\bar{1}$. $a = 9.831(5)$ $b = 10.107(5)$ $c = 13.855(7)$ $\alpha = 86.222(10)^\circ$
 $\beta = 73.383(9)^\circ$ $\gamma = 71.987(9)^\circ$ $Z = 2$ **X-Ray Diffraction Pattern:** Fianel mine, near Ausserferrera, Graubünden, Switzerland. 2.71 (100), 3.09 (80), 7.91 (70), 8.68 (50), 3.22 (40), 2.92 (40), 1.61 (40)

Chemistry:	(1)
V ₂ O ₅	6.46
As ₂ O ₅	0.14
SiO ₂	41.02
Al ₂ O ₃	0.04
MgO	2.86
MnO	41.54
CaO	0.13
Na ₂ O	2.25
NiO	0.22
ZnO	0.96
<u>H₂O</u>	<u>2.71</u>
Total	98.33

(1) Fianel mine, near Ausserferrera, Graubünden, Switzerland; average electron microprobe analysis supplemented by FTIR spectroscopy; corresponds to Na_{0.97}(Mn_{7.79}Mg_{0.95}Zn_{0.16}Ni_{0.04}Ca_{0.03}Al_{0.01})_{Σ=8.98}(V_{0.95}As_{0.02}Si_{9.08})_{Σ=10.05}O_{32.05}H₄.**Mineral Group:** Chain silicate.**Occurrence:** In a metamorphosed syn-sedimentary exhalative Mn deposit.**Association:** Saneroite, tiragalloite.**Distribution:** At the Fianel Fe-Mn mine, near Ausserferrera, Ferrera valley, Graubünden, Switzerland.**Name:** Honors Swiss naturalist Johann Jakob *Scheuchzer* (1672-1733), junior physician of the city of Zürich, curator of the Kunstkammer - a cabinet of natural history and curiosities, and the chair of physics and mathematics at the University of Zürich.**Type Material:** Geological Museum, Lausanne, Switzerland (MGL 79355).**References:** (1) Brugger, J., S. Krivovichev, N. Meisser, S. Ansermet, and T. Armbruster (2006) Scheuchzerite, Na(Mn,Mg)₉[VSi₉O₂₈(OH)](OH)₃, a new single-chain silicate. *Amer. Mineral.*, 91, 937-943.