

Crystal Data: Monoclinic. *Point Group:* 2/m. As isolated platy crystals to 0.2 mm and in aggregates.

Physical Properties: *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Irregular. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.372

Optical Properties: Translucent. *Color:* Pale green. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Biaxial (+). $\alpha = 1.750(3)$ $\beta = 1.807(3)$ $\gamma(\text{calc.}) = 1.910(5)$ $2V(\text{calc.}) = 76.9^\circ$ *Orientation:* $Y = b$, $c \wedge Z = 10^\circ$ (in obtuse β).

Cell Data: *Space Group:* P2₁/c. $a = 16.9356(5)$ $b = 7.8955(3)$ $c = 10.1675(3)$ $\beta = 98.0064(4)^\circ$ $Z = 4$

X-ray Powder Pattern: Tambo mine, El Indio-Tambo mining property, Coquimbo Province, Chile. 7.153 (100), 8.431 (44), 3.5753 (41), 2.9964 (34), 3.4631 (21), 2.8261 (19), 5.034 (11)

Chemistry:	(1)	(2)	(3)
SeO ₂	22.91	20.60	
TeO ₂	44.30	39.83	64.13
Fe ₂ O ₃	26.43	23.76	21.39
H ₂ O	[15.81]	15.81	14.48
Total	111.23	100.00	100.00

(1) Tambo mine, El Indio-Tambo mining property, Coquimbo Province, Chile; average of 10 electron microprobe analyses, H₂O calculated from structure and by analogy to mandarinoite, high analytical total ascribed to losses under vacuum. (2) Analysis 1 normalized; corresponds to Fe³⁺_{2.03}(Te_{1.71}Se_{1.27})_{Σ=2.98}O₉•6H₂O. (3) Fe³⁺₂Te⁴⁺₃O₉•6H₂O.

Occurrence: Of epithermal hydrothermal origin, found in the interstices of silicified dacitic tuff breccia.

Association: Emmonsite, mackayite, poughite, rodalquilarite, two new unnamed Fe-tellurite minerals, alunite, barite, "silica".

Distribution: From the Wendy open pit, Tambo mine, El Indio-Tambo mining property, Coquimbo Province, Andes Mountains, Chile.

Name: By a prefix, the name indicates the Te⁴⁺ (*tellurium*) analogue of *mandarinoite*.

Type Material: Natural History Department, Royal Ontario Museum, Toronto, Canada (M56017).

References: (1) Back, M.E., J.D. Grice, R.A. Gault, M.A. Cooper, P.C. Walford, and J.A. Mandarino (2017) Telluromandarinoite, a new tellurite mineral from the El Indio-Tambo mining property, Andes Mountains, Chile. *Can. Mineral.*, 55(1), 21-28. (2) (2018) *Amer. Mineral.*, 103, 2531 (abs. ref. 1).