

**Crystal Data:** Triclinic. *Point Group:* 1. As radiating groups or aggregates of acicular or prismatic crystals, with individual crystals to 0.15 mm.

**Physical Properties:** *Cleavage:* Good on {010}. *Tenacity:* Brittle. *Fracture:* n.d.  
Hardness = 5-5.5 D(meas.) = 3.05(2) D(calc.) = 3.09

**Optical Properties:** Transparent. *Color:* Brown in transmitted light. *Streak:* Very light brown.  
*Luster:* Vitreous.

*Optical Class:* Biaxial (-).  $\alpha = 1.686(2)$   $\beta = 1.729(2)$   $\gamma = 1.746(2)$   $2V(\text{meas.}) = 63.7(5)^\circ$   
 $2V(\text{calc.}) = 62.58^\circ$  *Dispersion:*  $r > v$ , strong.

**Cell Data:** *Space Group:* C1.  $a = 9.1386(5)$   $b = 6.2566(3)$   $c = 12.0043(6)$   $\alpha = 90.019(4)^\circ$   
 $\beta = 91.643(4)^\circ$   $\gamma = 89.900(4)^\circ$   $Z = 2$

**X-ray Powder Pattern:** N'Chwaning III mine, Kalahari manganese field, South Africa.  
12.142 (100), 3.134 (38), 2.771 (31), 4.269 (25), 5.164 (20), 2.363 (18), 1.532 (16)

<b>Chemistry:</b>	(1)
SiO <sub>2</sub>	36.85
Al <sub>2</sub> O <sub>3</sub>	0.06
Mn <sub>2</sub> O <sub>3</sub>	23.29
Fe <sub>2</sub> O <sub>3</sub>	1.84
SrO	19.15
CaO	7.03
H <sub>2</sub> O	[11.17]
Total	99.39

(1) N'Chwaning III mine, Kalahari manganese field, South Africa; average electron microprobe analysis supplemented by Raman spectroscopy, H<sub>2</sub>O from structure; corresponds to Sr(Ca<sub>0.81</sub>Sr<sub>0.19</sub>)<sub>Σ=1.00</sub>(Mn<sup>3+</sup><sub>1.90</sub>Fe<sup>3+</sup><sub>0.15</sub>Al<sub>0.01</sub>)<sub>Σ=2.06</sub>Si<sub>3.96</sub>O<sub>11</sub>(OH)<sub>4</sub>·2H<sub>2</sub>O.

**Occurrence:** On chemically weathered metamorphosed manganese ore.

**Association:** Sugilite, aegirine, pectolite, richterite, potassic-ferri-leakeite, lipuite.

**Distribution:** From the N'Chwaning III mine, Kalahari manganese field, Northern Cape province, South Africa.

**Name:** Honors its finders, Tania Janse van Nieuwenhuizen (b. 1973) and Jacobus "Jaco" Stephanus Janse van Nieuwenhuizen (b. 1973), mineral collectors and the owners of "Crystal Springs Minerals CC" in South Africa.

**Type Material:** Mineral Museum, University of Arizona, Tucson, USA (20009) and the RRUFF Project (R140945).

**References:** (1) Yang, H., X. Gu, B. Cairncross, R.T. Downs, and S.H. Evans (2021) Taniajacoite and strontioruizite, two new minerals isostructural with ruizite from the N'Chwaning III mine, Kalahari manganese field, South Africa. *Can. Mineral.*, 59, 431-444.