

Crystal Data: Monoclinic. *Point Group:* 2/m. As equant or short prismatic crystals to 0.3 mm.

Physical Properties: *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Uneven. Hardness = 3.5
D(meas.) = 3.17(1) D(calc.) = 3.16

Optical Properties: Translucent. *Color:* Dark brown to dark greenish black. *Streak:* Olive-green.
Luster: Adamantine.

Optical Class: Biaxial. $\alpha = 1.75(1)$ $\beta = 1.79(1)$ $\gamma = >1.79$ 2V(meas.) = n.d.
Pleochroism: Dark brown to olive greenish brown.

Cell Data: *Space Group:* C2/c. $a = 6.914(2)$ $b = 7.468(2)$ $c = 7.364(2)$ $\beta = 112.29(3)^\circ$ $Z = 4$

X-ray Powder Pattern: Alto Serra Branca pegmatite, Paraiba State, Brazil.
3.503 (100), 2.516 (19), 4.633 (15), 4.856 (12), 2.104 (12), 3.271 (10), 2.957 (10)

Chemistry:	(1)	(2)
Mn ₂ O ₃	46.85	47.01
P ₂ O ₅	42.72	42.27
<u>H₂O</u>	<u>9.80</u>	<u>10.72</u>
Total	99.37	100.00

(1) Alto Serra Branca pegmatite, Paraiba State, Brazil; average electron microprobe analysis, H₂O by TGA; corresponding to Mn_{0.98}P_{1.00}O_{3.98}·0.90H₂O.

Occurrence: A secondary alteration product of triplite in a granitic pegmatite.

Association: Vernadite, phosphosiderite.

Distribution: From the Alto Serra Branca granitic pegmatite, ~10 km southwest of the village Pedra Lavrada, Paraiba State, Brazil.

Name: For the Alto *Serra Branca* granitic pegmatite, Brazil.

Type Material: Mineral Collection, Bergakademie, Freiberg, Germany (78025) and the Mineral Collection, Martin-Luther Universität Halle, Geoscience Institute, Germany (010355).

References: (1) Witzke T, R. Wegner, T. Doering, H. Pöllmann, and W. Schuckmann (2000) Serrabrancaite, MnPO₄·H₂O, a new mineral from the Alto Serra Branca pegmatite, Pedra Lavrada, Paraiba, Brazil. *Amer. Mineral.*, 85, 847-849.