

**Crystal Data:** Monoclinic. *Point Group:* 2/m. As tabular prismatic crystals in rims (up to 0.1 mm thick) on crystals of roscherite-group minerals.

**Physical Properties:** *Cleavage:* Perfect on {100}, good on {010} (by analogy in the group). *Tenacity:* Brittle. *Fracture:* Uneven. Hardness = ~4.5 (by analogy) D(meas.) = n.d. D(calc.) = 2.963 Nonfluorescent.

**Optical Properties:** Transparent. *Color:* Brown, colorless in thin section. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Biaxial (-).  $\alpha = 1.596(2)$   $\beta = 1.600(2)$   $\gamma = 1.602(2)$  2V(meas.) = 55°-75° 2V(calc.) = 70° *Orientation:* X = elongation. Nonpleochroic.

**Cell Data:** *Space Group:* C2/c.  $a = 15.98(1)$   $b = 11.84(2)$   $c = 6.63(1)$   $\beta = 95.15(15)^\circ$   $Z = 2$

**X-Ray Diffraction Pattern:** Near the Piauí river, Itinga county, Minas Gerais, Brazil. 5.98 (100), 9.98 (90), 3.152 (90), 4.82 (80), 2.708 (80), 3.052 (70), 2.961 (70)

Chemistry:	(1)	(2)
CaO	9.72	9.43
MgO	4.00	
MnO	2.18	
FeO	2.65	
ZnO	19.06	34.22
Al <sub>2</sub> O <sub>3</sub>	1.70	
BeO	[8.975]	8.41
P <sub>2</sub> O <sub>5</sub>	38.20	35.81
H <sub>2</sub> O	[13.515]	12.12
Total	100.00	100.00

(1) Near the Piauí river, Itinga county, Minas Gerais, Brazil; average electron microprobe analysis, H<sub>2</sub>O and BeO calculated; corresponds to Ca<sub>1.93</sub>(Zn<sub>2.61</sub>Mg<sub>1.11</sub>Fe<sup>2+</sup><sub>0.41</sub>Al<sub>0.37</sub>Mn<sub>0.34</sub>)<sub>Σ=4.84</sub>Be<sub>4.00</sub>(PO<sub>4</sub>)<sub>6.00</sub>(OH)<sub>3.90</sub>·6.41H<sub>2</sub>O. (2) Ca<sub>2</sub>Zn<sub>5</sub>Be<sub>4</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>4</sub>·6H<sub>2</sub>O.

**Mineral Group:** Roscherite group.

**Occurrence:** A late fracture-filling mineral in a phosphate-rich granite pegmatite.

**Association:** Albite, microcline, quartz, elbaite, lepidolite, schorl, eosphorite, moraesite, saleeite, zanazziite, an Fe-dominant roscherite-group mineral, opal.

**Distribution:** From a pegmatite near the Piauí river, Itinga county, Minas Gerais, Brazil.

**Name:** Honors the Brazilian mineralogist Djalma Guimarães (1895-1973).

**Type Material:** Geology Museum, University of São Paulo, Brazil (DR 591).

**References:** (1) Chukanov, N.V., D. Atencio, A.E. Zadov, L.A.D. Menezes, and J.M.V. Coutinho (2007) Guimarãesite, a new Zn-dominant monoclinic roscherite-group mineral from Itinga, Minas Gerais, Brazil. *New Data on Minerals*. 42, 11-15.