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Crystal Data: Monoclinic. *Point Group:* 2/m or m. Anhedral, to about 1 mm; fine-grained massive, in aggregates.

Physical Properties: Cleavage: On $\{010\}$, poor. Hardness = 5 D(meas.) = 3.22 D(calc.) = 3.21 Blue cathodoluminescence under the electron beam.

Optical Properties: Semitransparent. Color: Pink. Streak: White. Luster: Vitreous. Optical Class: Biaxial (+). Orientation: Z = b; $X \wedge c = 22^{\circ}$. $\alpha = 1.590(2)$ $\beta = 1.596(2)$ $\gamma = 1.616(2)$ $2V(\text{meas.}) = 51(2)^{\circ}$

Cell Data: Space Group: C2/c or Cc. a = 6.535(3) b = 8.753(4) c = 6.919(4) $\beta = 112.33(4)^{\circ}$ Z = 4

X-ray Powder Pattern: Panasqueira, Portugal; nearly identical to isokite. 2.626 (100), 3.02 (86), 3.20 (67), 2.584 (45), 1.722 (33), 2.783 (31), 1.658 (30)

Chemistry:

	(1)
P_2O_5	39.6
FeO	0.4
MnO	0.0
MgO	22.9
CaO	31.0
F	3.1
ОН	[6.7]
$-\mathcal{O} = (\mathcal{F}_2, \mathcal{OH})$	4.4
Total	[99.3]

(1) Panasqueira, Portugal; by electron microprobe, $(OH)^{1-}$ calculated from stoichiometry; corresponds to $Ca_{0.99}(Mg_{1.02}Fe_{0.01})_{\Sigma=1.03}(PO_4)_{1.00}[(OH)_{0.71}F_{0.29}]_{\Sigma=1.00}$.

Occurrence: A rare mineral in vein selvages in a hydrothermal Sn-W deposit.

Association: Fluorapatite, wolfeite, topaz, muscovite, sphalerite, quartz, chalcopyrite, pyrrhotite, siderite, arsenopyrite, chlorite, vivianite, althausite, thadeuite.

Distribution: From the Panasqueira Sn–W deposit, Portugal.

Name: For Panasqueira, Portugal, the type locality.

Type Material: Department of Geological Sciences, University of Michigan, Ann Arbor, Michigan; National Museum of Natural History, Washington, D.C., USA, 144521.

References: (1) Isaacs, A.M. and D.R. Peacor (1981) Panasqueiraite, a new mineral: the OH-equivalent of isokite. Can. Mineral., 19, 389–392. (2) (1982) Amer. Mineral., 67, 859 (abs. ref. 1). (3) Isaacs, A.M. and D.R. Peacor (1985) Panasqueiraite, a new mineral: the OH-equivalent of isokite. Erratum. Can. Mineral., 23, 131.