

**Vaniniite**

**Crystal Data:** Monoclinic. *Point Group:* 2/m.

**Physical Properties:** *Cleavage:* *Tenacity:* *Fracture:*  
Hardness =     D(meas.) =     D(calc.) =

**Optical Properties:** *Color:* *Streak:* *Luster:*  
*Optical Class:*

**Cell Data:** *Space Group:*  $P2_1/c$ .  $a = 8.9856(1)$   $b = 8.9472(1)$   $c = 9.9039(1)$   $\beta = 94.719(1)^\circ$

**X-Ray Diffraction Pattern:** Falotta mine, Oberhalbstein valley, Graubünden, Switzerland.  
2.99 (100), 3.76 (70), 1.646 (70), 3.99 (50), 1.580(50), 5.47 (40), 4.31 (40)

**Chemistry:**

**Polymorphism & Series:**

**Mineral Group:**

**Occurrence:**

**Association:**

**Distribution:** From the Falotta mine, near Rona village, Oberhalbstein valley, Graubünden, Switzerland.

**Name:**

**Type Material:** Geology Museum, University of Lausanne, Switzerland (MGL 080143 and 080144).

**References:** (1) Hålenius, U., F. Hatert, M. Pasero, and S.J. Mills (2018) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 43. New minerals and nomenclature modifications approved in 2018. *Mineral. Mag.*, 82(3), 780.