

**Crystal Data:** Hexagonal. *Point Group:* 6/m 2/m 2/m. As subhedral to euhedral crystals, to 200 μm.

**Physical Properties:** *Cleavage:* None observed. *Fracture:* n.d. *Tenacity:* Brittle.  
Hardness = ~ 6      D(meas.) = n.d.      D(calc.) = 3.49

**Optical Properties:** Transparent to translucent. *Color:* White. *Streak:* n.d. *Luster:* Vitreous.  
*Optical Class:* Uniaxial (+).      ω = 1.587(3)      ε = 1.602(2)      (Synthetic BaBe<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>)

**Cell Data:** *Space Group:* P6/mmm.      a = 5.029(1)      c = 7.446(1)      Z = 1      (Synthetic BaBe<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>)

**X-ray Powder Pattern:** Nanping No. 31 pegmatite, northwest Fujian Province, southeastern China.  
3.763 (100), 2.836 (81.3), 2.090 (63.9), 2.515 (32.3), 2.178 (25.6), 1.507 (25.4), 2.162 (19)

<b>Chemistry:</b>	(1)	(2)
P <sub>2</sub> O <sub>5</sub>	40.16	41.11
BaO	43.01	44.40
BeO	14.06	14.49
SiO <sub>2</sub>	0.17	
CaO	0.17	
SrO	0.08	
FeO	0.03	
MgO	0.01	
TiO <sub>2</sub>	0.07	
K <sub>2</sub> O	0.05	
Na <sub>2</sub> O	0.11	
Total	97.92	100.00

(1) Nanping No. 31 pegmatite, northwest Fujian Province, southeastern China; average of 8 electron microprobe analyses, supplemented by FTIR and Raman spectroscopy, BeO by SIMS; corresponding to (Ba<sub>0.99</sub>Ca<sub>0.01</sub>Na<sub>0.01</sub>)<sub>Σ=1.01</sub>Be<sub>1.98</sub>(P<sub>1.99</sub>Si<sub>0.01</sub>)<sub>Σ=2.00</sub>O<sub>8</sub>.      (2) BaBe<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>.

**Occurrence:** In fractures cutting montebrasite, as a late hydrothermal secondary mineral in a Be-rich, zoned pegmatite.

**Association:** Montebrasite, quartz, muscovite, hydroxylapatite, palermoite.

**Distribution:** From the 515 m level, Zone IV, Nanping No. 31 pegmatite, northwest Fujian Province, southeastern China.

**Name:** For the Minjiang River, located near the Nanping pegmatite.

**Type Material:** Geological Museum of China, Beijing, China (M11842) and the Laboratory of Mineralogy, University of Liège, Belgium (20390, 20386).

**References:** (1) Rao, C., F. Hatert, R.C. Wang, X.P. Gu, F. Dal Bo and C.W. Dong (2015) Minjiangite, BaBe<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>, a new mineral from Nanping No. 31 pegmatite, Fujian Province, southeastern China. *Mineral. Mag.*, 79(5), 1195-1202.      (2) Dal Bo, F., F. Hatert, and M. Baijot (2014) Crystal chemistry of synthetic M<sup>2+</sup>Be<sub>2</sub>P<sub>2</sub>O<sub>8</sub> (M<sup>2+</sup> = Ca, Sr, Pb, Ba) beryllophosphates. *Can. Mineral.*, 52(2), 337-350.      (3) (2016) *Amer. Mineral.*, 101, 2127-2128 (abs. refs. 1 & 2).