

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 BaBe₂(PO₄)₂)

Cell Data: *Space Group:* P6/mmm. a = 5.029(1) c = 7.446(1) Z = 1 (Synthetic BaBe₂(PO₄)₂)

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)

Chemistry:	(1)	(2)
P ₂ O ₅	40.16	41.11
BaO	43.01	44.40
BeO	14.06	14.49
SiO ₂	0.17	
CaO	0.17	
SrO	0.08	
FeO	0.03	
MgO	0.01	
TiO ₂	0.07	
K ₂ O	0.05	
Na ₂ 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_{0.99}Ca_{0.01}Na_{0.01})_{Σ=1.01}Be_{1.98}(P_{1.99}Si_{0.01})_{Σ=2.00}O₈. (2) BaBe₂(PO₄)₂.

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, BaBe₂(PO₄)₂, 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 M²⁺Be₂P₂O₈ (M²⁺ = Ca, Sr, Pb, Ba) beryllophosphates. *Can. Mineral.*, 52(2), 337-350. (3) (2016) *Amer. Mineral.*, 101, 2127-2128 (abs. refs. 1 & 2).