

Crystal Data: Monoclinic. *Point Group:* 2/m. As platy crystals, to 1.5 mm.

Physical Properties: *Cleavage:* None. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = 6
D(meas.) = n.d. D(calc.) = 3.101

Optical Properties: Transparent to translucent. *Color:* Light blue, colorless in thin section.

Streak: n.d. *Luster:* Vitreous.

Optical Class: Biaxial (-). $\alpha = 1.563(3)$ $\beta = 1.569(2)$ $\gamma = 1.572(3)$ $2V(\text{meas.}) = 68.5(5)^\circ$
 $2V(\text{calc.}) = 70^\circ$ *Orientation:* $X = b$, $Y \approx c$. *Dispersion:* Weak, $r > v$.

Cell Data: *Space Group:* $P2_1/c$. $a = 7.997(3)$ $b = 8.979(2)$ $c = 8.420(7)$ $\beta = 90.18(6)^\circ$ $Z = 4$

X-ray Powder Pattern: Nanping No. 31 pegmatite, Fujian province, southeastern China.
3.554 (100), 2.215 (87), 2.542 (67), 2.046 (54), 3.355 (51), 2.230 (42), 3.073 (38)

Chemistry:	(1)	(2)
SrO	29.30	35.06
P ₂ O ₅	51.05	48.02
CaO	0.91	
BaO	0.64	
<u>BeO</u>	<u>17.71</u>	<u>16.92</u>
Total	99.61	100.00

(1) Nanping No. 31 pegmatite, Fujian province, southeastern China; average of 16 electron microprobe analyses supplemented by Raman spectrometry, BeO by SIMS; corresponds to (Sr_{0.81}Ca_{0.05}Ba_{0.01})_{Σ=0.87}Be_{2.02}P_{2.05}O₈. (2) SrBe₂(PO₄)₂.

Occurrence: In a highly-evolved zoned pegmatite, likely from reactions between late hydrothermal fluids and primary beryl.

Association: Quartz, muscovite, beryl, hurlbutite, hydroxylherderite, apatite-group minerals, phenakite.

Distribution: From the Nanping No. 31 pegmatite, 8 km west of Nanping, Fujian province, southeastern China.

Name: As a strontium-dominant analog of hurlbutite.

Type Material: Geological Museum of China, Beijing, China (M11803) and at the Laboratory of Mineralogy, University of Liège, Belgium (20387).

References: (1) Rao, C., R. Wang, F. Hatert, X. Gu, L. Ottolini, H. Hu, C. Dong, F.D. Bo, and M. Baijot (2014) Strontiohurlbutite, SrBe₂(PO₄)₂, a new mineral from Nanping No. 31 pegmatite, Fujian Province, Southeastern China. *Amer. Mineral.*, 99, 494-499.