

**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)

<b>Chemistry:</b>	(1)	(2)
SrO	29.30	35.06
P <sub>2</sub> O <sub>5</sub>	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<sub>0.81</sub>Ca<sub>0.05</sub>Ba<sub>0.01</sub>)<sub>Σ=0.87</sub>Be<sub>2.02</sub>P<sub>2.05</sub>O<sub>8</sub>. (2) SrBe<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>.

**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, SrBe<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>, a new mineral from Nanping No. 31 pegmatite, Fujian Province, Southeastern China. *Amer. Mineral.*, 99, 494-499.