

Crystal Data: Orthorhombic (Monoclinic optical properties). *Point Group:* 2/m 2/m 2/m.
As fan-like or parallel aggregates (to 0.7 cm) of platy striated crystals to 2 mm.

Physical Properties: *Cleavage:* Perfect on {001}, fair on {010}. *Fracture:* Splintery.
Tenacity: Brittle. *Hardness* = 5-6 *D(meas.)* = n.d. *D(calc.)* = 2.719

Optical Properties: Translucent. *Color:* White. *Streak:* White. *Luster:* Vitreous.
Optical Class: Biaxial (+). $\alpha = 1.579(2)$ $\beta = 1.580(2)$ $\gamma = 1.597(2)$ $2V(\text{meas.}) = 24(3)^\circ$
 $2V(\text{calc.}) = 27^\circ$ *Dispersion:* Weak, $r < v$. *Orientation:* $X \wedge a = 16^\circ$, $Y \wedge b = 16^\circ$, $Z \parallel c$.

Cell Data: *Space Group:* Cmc₂m. $a = 23.204(6)$ $b = 4.9442(9)$ $c = 19.418(6)$ $Z = 4$

X-ray Powder Pattern: Calculated pattern.

3.334 (100), 3.723 (51), 3.383 (44), 4.166 (38), 3.027 (37), 2.553 (31), 3.236 (28)

Chemistry:	(1)	(2)
SiO ₂	58.83	57.41
Al ₂ O ₃	3.51	3.51
CaO	24.61	23.75
Na ₂ O	0.07	0.18
F ₂	0.45	0.55
BeO	[9.31]	[9.07]
H ₂ O	[3.12]	[3.05]
- O = F ₂	0.19	0.23
Total	99.71	97.29

(1) Piława Górna quarry, ~50 km southwest of Wrocław, Poland; average of 17 electron microprobe analyses supplemented by FTIR spectroscopy, BeO and H₂O calculated so that Be = 13 – (Si+Al) and Ca+Na = Al+Be; corresponding to (Ca_{4.02}Na_{0.02}) $\Sigma=4.04$ (Be_{3.41}Al_{0.59}) $\Sigma=4.00$ (Si_{8.96}Al_{0.04}) $\Sigma=9.00$ O_{24.22}[(OH)_{3.17}F_{0.22}O_{0.61}] $\Sigma=4.00$. (2) Piława Górna quarry, ~50 km southwest of Wrocław, Poland; average of 10 electron microprobe analyses supplemented by FTIR spectroscopy, BeO and H₂O calculated so that Be = 13 – (Si+Al) and Ca+Na = Al+Be; corresponding to (Ca_{3.97}Na_{0.05}) $\Sigma=4.02$ (Be_{3.40}Al_{0.60}) $\Sigma=4.00$ (Si_{8.96}Al_{0.04}) $\Sigma=9.00$ O_{24.27}[(OH)_{3.17}F_{0.27}O_{0.56}] $\Sigma=4.00$.

Polymorphism & Series: Forms a series with bavenite.

Occurrence: In strongly fractionated parts of zoned anatectic (NYF-LCT) pegmatite dikes that cut amphibolite.

Association: Microcline, Cs-rich beryl, phenakite, helvite, lepidolite, bertrandite (Poland).

Distribution: From the Piława Górna quarry, eastern part of the Góry Sowie Block, NE part of the Bohemian massif, ~50 km southwest of Wrocław, Poland and from the Ilímaussaq alkaline complex, South Greenland.

Name: Honors the Danish geologist Hennning Bohse (b. 1942) who has worked for more than 40 years on the mineralogy and geology of the Ilímaussaq alkaline complex.

Type Material: Mineralogical Museum, University of Wrocław, Poland (MMUWr IV7678 and IV7679) and the Natural History Museum, Copenhagen, Denmark (GM 1995.32).

References: (1) Szeleg, E., B. Zuzens, F.C. Hawthorne, A. Pieczka, A. Szuszkiewicz, K. Turniak, K. Nejbert, S.S. Ilnicki, H. Friis, E. Makovicky, M.T. Weller, and M.-H. Lemée-Cailleau (2017) Bohseite, ideally Ca₄Be₄Si₉O₂₄(OH)₄, from the Piława Górna quarry, the Góry Sowie Block, SW Poland. Mineral. Mag., 81(1), 35-46. (2) (2017) Amer. Mineral., 102, 1961-1962 (abs. ref. 1).