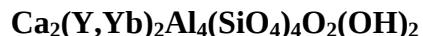


Pilawite-(Y)**Crystal Data:** Monoclinic. *Point Group:* 2/m. As crystals to 1.5 mm.**Physical Properties:** *Cleavage:* None observed. *Fracture:* Irregular. *Tenacity:* Brittle.
Hardness = 5 D(meas.) = n.d. D(calc.) = 4.007**Optical Properties:** Translucent. *Color:* White. *Streak:* White. *Luster:* Vitreous.
Optical Class: Biaxial (+). $\alpha = 1.743(5)$ $\beta = 1.754(5)$ $\gamma = 1.779(5)$ $2V(\text{meas.}) = 65(2)^\circ$
 $2V(\text{calc.}) = 68^\circ$ *Orientation:* $X \wedge a = 87.5^\circ$ (β acute), $Y \parallel b$ and $Z \wedge a = 3.1^\circ$ (β obtuse).**Cell Data:** *Space Group:* $P2_1/c$. $a = 8.558(3)$ $b = 7.260(3)$ $c = 11.182(6)$
 $\beta = 90.61(4)^\circ$ $Z = 2$ **X-ray Powder Pattern:** Piława Górna granitic pegmatite, southwestern Poland.
3.044 (100), 2.485 (62), 2.583 (54), 2.651 (46), 2.408 (45), 2.791 (43), 3.921 (38)

Chemistry:	(1)		(1)
P ₂ O ₅	0.04	Er ₂ O ₃	2.04
SiO ₂	28.34	Tm ₂ O ₃	0.34
TiO ₂	0.26	Yb ₂ O ₃	2.53
Al ₂ O ₃	23.36	Lu ₂ O ₃	0.47
Fe ₂ O ₃	0.72	FeO	0.32
Y ₂ O ₃	22.17	MnO	0.75
Gd ₂ O ₃	0.50	CaO	12.50
Tb ₂ O ₃	0.21	PbO	0.18
Dy ₂ O ₃	2.13	H ₂ O	[2.14]
Ho ₂ O ₃	0.54	Total	99.55

(1) Piława Górna granitic pegmatite, southwestern Poland; average of 33 electron microprobe analyses of compositionally-zoned crystals, supplemented by FTIR and RAMAN spectroscopy, H₂O from stoichiometry, Fe³⁺/Fe²⁺ to maintain 12 cations pfu; corresponding to (Ca_{1.88}Mn²⁺_{0.09}Fe²⁺_{0.04}Pb_{0.01}) $\Sigma=2.02$ (Y_{1.65}Yb_{0.11}Dy_{0.10}Er_{0.09}Gd_{0.02}Ho_{0.02}Tm_{0.02}Lu_{0.02}Tb_{0.01}) $\Sigma=2.04$ [(Al_{3.86}Fe³⁺_{0.08}Ti⁴⁺_{0.03}) $\Sigma=3.97$ (Si_{3.98}O₄)₄O₂(OH)₂].

Occurrence: Within the blocky feldspar zone of a weakly zoned and weakly fractionated NYF-affiliated granitic pegmatite dike.**Association:** Keiviite-(Y), gadolinite-(Y), hingganite-(Y), hellandite-(Y).**Distribution:** From the quarry of the Dolnośląskie Surowce Skalne S.A Company, Piława Górna, ~50 km southwest of Wrocław, Lower Silesia, southwestern Poland.**Name:** For Piława Górna, in Lower Silesia, Poland.**Type Material:** Mineralogical Museum, University of Wrocław, Poland (MMWr IV7676).**References:** (1) Pieczka, A., F.C. Hawthorne, M.A. Cooper, E. Szełęg, A. Szuszkiewicz, K. Turniak, K. Nejbert and S. Ilnicki (2015) Pilawite-(Y), Ca₂(Y,Yb)₂[Al₄(SiO₄)₄O₂(OH)₂], a new mineral from the Piława Górna granitic pegmatite, southwestern Poland: mineralogical data, crystal structure and association. Mineral. Mag., 79(5), 1143-1157. (2) (2016) Amer. Mineral., 101, 2129-2130 (abs. ref. 1).