

Crystal Data: Orthorhombic. *Point Group:* mm2. As lamellar to tabular crystals to 1.5 mm and their near parallel or sheaf-like clusters.

Physical Properties: *Cleavage:* Perfect on (001), less perfect on (100) and (010). *Tenacity:* Brittle. *Fracture:* n.d. *Hardness* = 4 *D(meas.)* = 2.18(1) *D(calc.)* = 2.17

Optical Properties: Transparent. *Color:* Colorless, pale yellow, brown. *Streak:* White.

Luster: n.d.

Optical Class: Biaxial (+). $\alpha = 1.488(2)$ $\beta = 1.490(2)$ $\gamma = 1.493(2)$ $2V(\text{meas.}) = 80(5)^\circ$ $2V(\text{calc.}) = 79^\circ$ *Orientation:* $Z = c$.

Cell Data: *Space Group:* Pnm2₁. $a = 6.528(1)$ $b = 6.970(1)$ $c = 37.216(5)$ $Z = 2$

X-Ray Diffraction Pattern: Mount Rother Kopf, near Gerolstein, Rheinland-Pfalz, Germany.
6.532 (100), 3.062 (91), 6.263 (67), 2.996 (66), 2.955 (63), 2.763 (60), 3.244 (49)

Chemistry:

	(1)
Na ₂ O	0.40
K ₂ O	5.18
MgO	0.58
CaO	3.58
BaO	4.08
FeO	3.06
Al ₂ O ₃	13.98
SiO ₂	52.94
<u>H₂O</u>	<u>15.2</u>
Total	98.99

(1) Mount Rother Kopf, near Gerolstein, Rheinland-Pfalz, Germany; average electron microprobe analysis supplemented by IR spectroscopy, H₂O by gas chromatography; corresponds to Na_{0.15}K_{1.24}Ba_{0.30}Ca_{0.72}Mg_{0.16}Fe²⁺_{0.48}[Si_{9.91}Al_{3.09}O_{25.25}(OH)_{3.75}]·7.29H₂O.

Occurrence: Encrusts the walls of miaroles in alkali basalt.

Association: Nepheline, leucite, augite, phlogopite, åkermanite, magnetite, perovskite, a lamprophyllite-group mineral, götzenite, chabazite-K, chabazite-Ca, phillipsite-K, calcite.

Distribution: At Mount Rother Kopf, near Gerolstein, Rheinland-Pfalz, Germany.

Name: Honors Günter Blass (b. 1943), an amateur mineralogist and specialist in electron microprobe and Xray diffraction.

Type Material: A.E. Fersman Mineralogical Museum, RAS, Moscow, Russia (4107/1).

References: (1) Chukanov, N.V., R.K. Rastsvetaeva, S.M. Aksenov, I.V. Pekov, N.V. Zubkova, S.N. Britvin, D.I. Belakovskiy, W. Schüller, and B. Ternes (2012) Günterblassite, (K,Ca)_{3-x}Fe[(Si,Al)₁₃O₂₅(OH, O)₄]·7H₂O, a new mineral: The first phyllosilicate with triple tetrahedral layer. Geology of Ore Deposits, 54, 656-662. (2) Rastsvetaeva, R.K., S.M. Aksenov, and N.V. Chukanov (2012) Crystal structure of günterblassite, a new mineral with a triple tetrahedral layer. Doklady Chemistry, 442, 57-62.