

Crystal Data: Monoclinic. *Point Group:* 2/m. As imperfect, thick-tabular to blocky aggregates, to 0.3 mm, composed of curved and randomly oriented laths to 150 μm . Crystals exhibit {010}, {100}, and {001}.

Physical Properties: *Cleavage:* Distinct on {010} and parting on {100}. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = 3.5 D(meas.) = 3.33(2) D(calc.) = 3.34

Optical Properties: Translucent. *Color:* White. *Streak:* n.d. *Luster:* Vitreous. *Optical Class:* Biaxial (-). $\alpha = 1.671(3)$ $\beta = 1.682(2)$ $\gamma = 1.687(3)$ $2V(\text{meas.}) = 65(5)^\circ$ $2V(\text{calc.}) = 68^\circ$ *Orientation:* $X = b$. *Dispersion:* Weak, $r > v$.

Cell Data: *Space Group:* C2/c. $a = 16.33(4)$ $b = 12.03(3)$ $c = 6.93(1)$ $\beta = 94.84(5)^\circ$
Z = 2

X-ray Powder Pattern: Fuchs quarry, near Sailauf, Spessart Mountains, Bavaria, Germany. 3.25 (100), 9.68 (39), 4.95 (34), 4.17 (34), 3.11 (32), 2.841 (27), 2.711 (26)

Chemistry:	(1)	(2)
Li ₂ O	0.04	
BeO	7.70	7.14
MgO	1.68	
CaO	8.28	8.01
MnO	16.27	25.33
FeO	4.89	
Al ₂ O ₃	0.22	
As ₂ O ₅	51.11	49.23
H ₂ O	11.0	10.29
Total	101.19	100.00

- (1) Fuchs quarry, near Sailauf, Bavaria, Germany; electron microprobe analysis supplemented by IR spectroscopy, H₂O by gas chromatography, Li and Be by ICP MS method; corresponding to $\text{Ca}_{1.99}(\text{Mn}_{3.09}\text{Fe}_{0.92}\text{Mg}_{0.56}\text{Al}_{0.06}\text{Li}_{0.04})_{\Sigma=4.67}\text{Be}_{4.15}(\text{AsO}_4)_{5.99}(\text{OH})_{3.64} \cdot 6.40\text{H}_2\text{O}$.
(2) $\text{Ca}_2\text{Mn}^{2+}_5\text{Be}_4(\text{AsO}_4)_6(\text{OH})_4 \cdot 6\text{H}_2\text{O}$.

Occurrence: In a hydrothermal vein cross-cutting rhyolite.

Association: Braunite, Mn-bearing calcite, arseniosiderite.

Distribution: At Fuchs quarry, near Sailauf, Spessart Mountains, Bavaria, Germany.

Name: Honors Professor Martin Okrusch (b. 1934), a German specialist in the mineralogy and petrology of magmatic and metamorphic rocks, ore petrology and ore deposits.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (94233).

References: (1) Chukanov, N.V., G. Möhn, I.V. Pekov, D.I. Belakovskiy, Y.V. Bychkova, V.V. Gurzhiy and J.A. Lorenz (2014) Okruschite, $\text{Ca}_2\text{Mn}^{2+}_5\text{Be}_4(\text{AsO}_4)_6(\text{OH})_4 \cdot 6\text{H}_2\text{O}$, a new roscherite-group mineral from Sailauf, Bavaria, Germany. *Eur. J. of Mineral.*, 26, 589-595.
(2) (2016) *Amer. Mineral.*, 101, 751 (abs. ref. 1).