

Minguzzite



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Crystal Data: Monoclinic. *Point Group:* $2/m$. Crystals, to 0.1 mm, showing $\{010\}$, $\{11\bar{1}\}$, $\{111\}$, $\{110\}$.

Physical Properties: *Cleavage:* Perfect on $\{010\}$. *Hardness* = n.d. $D(\text{meas.}) = 2.080$
 $D(\text{calc.}) = 2.156$ Soluble in H_2O .

Optical Properties: Semitransparent. *Color:* Green to yellow-green. *Luster:* Vitreous.
Optical Class: Biaxial (-). *Pleochroism:* $X = \text{yellow-green}$; $Z = \text{intense emerald-green}$.
 $\alpha = 1.498$ $\beta = 1.554$ $\gamma = 1.594$ $2V(\text{meas.}) = \text{n.d.}$ $2V(\text{calc.}) = 78^\circ$

Cell Data: *Space Group:* $P2_1/c$ (synthetic). $a = 7.66(2)$ $b = 19.87(1)$ $c = 10.27(2)$
 $\beta = 105^\circ 6'$ $Z = 4$

X-ray Powder Pattern: Synthetic.

6.9 (100), 3.61 (65), 2.18 (65), 2.67 (60), 10.2 (55), 4.96 (55), 3.16 (45)

Chemistry:

	(1)	(2)
C_2O_3	42.13	43.98
Al_2O_3	0.10	
Fe_2O_3	16.05	16.26
FeO	2.28	
MgO	0.10	
CaO	0.03	
K_2O	26.00	28.76
H_2O^+	11.35	
H_2O^-	1.60	
H_2O		11.00
insol.	0.10	
Total	99.74	100.00

(1) Capo Calamita, Elba, Italy; average of five partial analyses. (2) $\text{K}_3\text{Fe}(\text{C}_2\text{O}_4)_3 \cdot 3\text{H}_2\text{O}$.

Occurrence: Rare, in an oxidized gossan formed in a calcareous dolomite.

Association: Humboldtine, "limonite".

Distribution: From Capo Calamita, Elba, Italy.

Name: To honor Professor Carlo Minguzzi (1910–1953), Italian mineralogist, University of Pavia, Pavia, Italy.

Type Material: University of Florence, Florence, Italy, 1971/I.

References: (1) Garavelli, C.L. (1955) Un nuovo minerale tra i prodotti secondari del giacimento di Capo Calamita (Isola d'Elba). *Atti Rend. Accad. Lincei*, 18, 392–402 (in Italian). (2) (1956) *Amer. Mineral.*, 41, 370 (abs. ref. 1). (3) Herpin, P. (1958) Structure cristalline des trioxalates complexes de potassium. *Bull. Minéral.*, 81, 245–256 (in French).