

Crystal Data: Triclinic. *Point Group:* $\bar{1}$. As rounded grains to 50 μm in 1-2 cm wide veins of rubidian microcline that crosscut pollucite. *Twinning:* None observed.

Physical Properties: *Cleavage:* Perfect on {001}, good on {010} (by analogy to microcline). *Tenacity:* Brittle. *Fracture:* n.d. *Hardness* = n.d. *D(meas.)* = n.d. *D(calc.)* = n.d.

Optical Properties: Transparent. *Color:* Colorless. *Streak:* [White.] *Luster:* [Vitreous.] *Optical Class:* Biaxial. α , β , and γ slightly greater than microcline. $2V$ = n.d.

Cell Data: *Space Group:* $P\bar{1}$. $a = 8.81(3)$ $b = 13.01(3)$ $c = 7.18(4)$ $\alpha = 90.3(1)^\circ$ $\beta = 115.7(3)^\circ$ $\gamma = 88.2(1)^\circ$ $Z = 4$

X-ray Powder Pattern: n.d.

Chemistry:	(1)
SiO ₂	58.68
Al ₂ O ₃	16.48
K ₂ O	6.23
Rb ₂ O	17.47
Cs ₂ O	0.92
<u>Fe₂O₃</u>	<u>0.12</u>
Total	99.90

(1) San Piero in Campo, Elba, Italy; average electron microprobe analysis; corresponding to $(\text{Rb}_{0.574}\text{K}_{0.407}\text{Cs}_{0.020})_{\Sigma=1.001}(\text{Al}_{0.993}\text{Fe}_{0.005})\text{Si}_{3.001}\text{O}_8$.

Polymorphism & Series: Solid-solution series with microcline.

Mineral Group: Feldspar group.

Occurrence: In the core zones of complex Li-Cs-Rb-enriched, rare-element, granitic pegmatites, by exsolution from a K-Na-Rb-enriched precursor, followed possibly by fluid-induced modification.

Association: Rubidian microcline, albite, muscovite, quartz, apatite, pollucite.

Distribution: From San Piero in Campo, Elba, Italy.

Name: Indicates the rubidium analogue of microcline.

Type Material: R.B. Ferguson Museum of Mineralogy, University of Manitoba, Canada (M 6980 and M 6981).

References: (1) Teertstra, D.K., P. Černý, F.C. Hawthorne, J. Pier, L. Wang, and R.C. Ewing (1998) Rubicline, a new feldspar from San Piero in Campo, Elba, Italy. *Amer. Mineral.*, 83, 1335-1339.
(2) Kyono, A. and M. Kimata (2001) Refinement of the crystal structure of a synthetic non-stoichiometric Rb-feldspar. *Mineral. Mag.*, 65, 523-531.