Rubicline

\[ \text{Rb(AlSi}_3\text{O}_8) \]

**Crystal Data:** Triclinic. *Point Group:* \( \text{T} \). As rounded grains to 50 \( \mu \text{m} \) in 1-2 cm wide veins of rubidian microcline that crosscut pollucite. *Twinning:* None observed.


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

**X-ray Powder Pattern:** n.d.

**Chemistry:**

| 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 |
| Fe\(_2\)O\(_3\) | 0.12 |
| Total | 99.90 |

(1) San Piero in Campo, Elba, Italy; average electron microprobe analysis; corresponding to \((\text{Rb}_{0.574}\text{K}_{0.407}\text{Cs}_{0.020})_2\text{Fe}_{0.005}\text{Si}_3\text{O}_8\).

**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:**