Crystal Data: Hexagonal. *Point Group*: $\frac{3}{2}$ 2/m. As acicular prismatic crystals, displaying $\{10\overline{1}\ 0\}$ and $\{0001\}$, that occur in either finely or coarsely fibrous aggregates to 3 cm.

Physical Properties: Cleavage: Good on $\{10\overline{1}\ 0\}$. Fracture: Uneven to conchoidal. Tenacity: Brittle. D(meas.) = 2.59(1) D(calc.) = 2.577 Hardness = 6

Optical Properties: Translucent. *Color*: White to colorless. *Streak*: White.

Luster: Vitreous to silky.

Optical Class: Uniaxial (+). $\omega = 1.517(1)$ $\varepsilon = 1.521(1)$

Cell Data: Space Group: $P\overline{3}$ m1. a = 14.3865(9) c = 4.8733(4) Z = 1

X-ray Powder Pattern: Vesle Arøya island, Langesundsfjord district, Larvik, Vestfold, Norway. 3.161 (100), 3.386 (70), 2.466 (31), 4.710 (29), 4.153 (21), 2.217 (20), 2.398 (19)

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3.38
3.13
1.08
6.03
2.70
[3.65]
1.14
8.83

(1) Vesle Arøya island, Vestfold, Norway; average of 5 electron microprobe analyses supplemented by IR spectroscopy, BeO calculated from structure analysis; corresponds to $K_{0.91}Na_{5.92}$ [Be₂(Si_{15.07}Al_{2.98})_{Σ =18.05}]O₃₉(F_{1.95}O_{0.05}).

Mineral Group: Leifite group.

Occurrence: A late-stage hydrothermal mineral in a dike of nepheline syenite pegmatite.

Association: Microcline, zircon, aegirine, polylithionite, albite, eudialyte, catapleiite, pyrochlore.

Distribution: From Vesle Arøya island, Langesundsfjord district, Larvik, Vestfold, Norway; also from Tugtup Agtakorfia, Ilimaussaq, South Greenland, and in the Sodovyi crosscut, Kukisvumchorr, Khibiny and at Alluaiv Mountain, Lovozero Complex, Kola Peninsula, Russia.

Name: Honors the Viking *Eirik* Raude (Eric the Red, born ~950, died ~1003), Norwegian emigrant, the discoverer of Greenland, and father of Leiv (Leif) Eirikson, for whom leifite was named.

Type Material: Department of Geology, Natural History Museum, University of Oslo, Norway (# 41773).

References: (1) Larsen, A.O., U. Kolitsch, R.A. Gault, and G. Giester (2010) Eirikite, a new mineral species of the leifite group from the Langesundsfjord district, Norway. Eur. J. Mineral., 22, 875-880. (2) (2011) Amer. Mineral., 96, 940-941 (abs. ref. 1).