

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. Anhedral grains, to 3 mm; as rims around eudialyte.

Physical Properties: Hardness = ~4 D(meas.) = 2.93 D(calc.) = 2.92

Optical Properties: Semitransparent. *Color:* Honey-yellow. *Luster:* Vitreous. *Optical Class:* Biaxial (+). $\alpha = 1.605$ $\beta = 1.608$ $\gamma = 1.612$ 2V(meas.) = 75°

Cell Data: *Space Group:* Pmnn. $a = 10.331(1)$ $b = 10.546(1)$ $c = 7.426(4)$ $Z = 1$

X-ray Powder Pattern: Khibiny massif, Russia.
2.63 (100), 1.853 (70), 3.33 (60), 3.73 (50), 1.520 (50)

Chemistry:	(1)	(2)
SiO ₂	50.95	50.75
TiO ₂	0.95	
ZrO ₂	1.43	
Fe ₂ O ₃	5.47	11.24
MnO	2.30	
MgO	0.26	
CaO	12.00	11.84
Na ₂ O	26.66	26.17
Total	100.02	100.00

(1) Khibiny massif, Russia; by electron microprobe, total Fe as Fe₂O₃. (2) Na₁₂Ca₃Fe₂Si₁₂O₃₆.

Mineral Group: Lovozerite group.

Occurrence: In apatite-bearing alkalic pegmatitic rocks in a differentiated alkalic massif.

Association: Eudialyte, aegirine, orthoclase, alkalic amphibole, pectolite.

Distribution: From a drill core in the Khibiny massif, Vounnemiok River area, west of Lake Imandra, Kola Peninsula, Russia.

Name: For Lake Imandra on the Kola Peninsula, Russia.

Type Material: Geology Museum, Kola Branch, Academy of Sciences, Apatity, 5530; Mining Institute, St. Petersburg, 1298/1; A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 80181; The Natural History Museum, London, England, 1994, 10.

References: (1) Khomyakov, A.P., N.M. Chernitsova, S.M. Sandomirskaya, and G.L. Vasil'eva (1979) Imandrite, a new mineral of the lovozerite family. *Mineral. Zhurnal*, 1(1), 89–93 (in Russian). (2) (1980) *Amer. Mineral.*, 65, 810 (abs. ref. 1). (3) (1980) *Mineral. Mag.*, 31, 496 (abs. ref. 1). (4) Chernitsova, N.M., Z.V. Pudovkina, A.A. Voronkov, V.V. Ilyukhin, and Y.A. Pyatenko (1980) Imandrite Na₁₂Ca₃Fe₂[Si₆O₁₈]₂ as a representative of a new branch in the lovozerite structural family. *Doklady Acad. Nauk SSSR*, 252, 618–621 (in Russian). (5) (1980) *Chem. Abs.*, 93, 141277 (abs. ref. 4).