

Crystal Data: Monoclinic. *Point Group:* *m*. *Twinning:* Microtwinning on (001) and $\bar{4}$ 01). As flattened prismatic crystals elongated along [010] to 8 mm.

Physical Properties: *Cleavage:* None. *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = 5
D(meas.) = 2.90 D(calc.) = 2.93

Optical Properties: Transparent. *Color:* White, pale brown, colorless. *Streak:* White.
Luster: Vitreous.

Optical Class: Biaxial (+). $\alpha = 1.680(1)$ $\beta = 1.687(2)$ $\gamma = 1.787(5)$ $2V(\text{meas.}) = 25(10)^\circ$
 $2V(\text{calc.}) = 31^\circ$ *Orientation:* $Y = b$. Nonpleochroic. No dispersion.

Cell Data: *Space Group:* *Cm*. $a = 14.495(10)$ $b = 13.945(10)$ $c = 7.838(8)$ $\beta = 117.75(7)^\circ$ $Z = 2$

X-ray Powder Pattern: Mt. Lepkhe-Nelm, Lovozero alkaline massif, Kola Peninsula, Russia.
6.96 (100), 3.11 (90), 3.21 (80), 2.50 (40), 1.70 (40), 2.60 (35), 1.74 (30)

Chemistry:	(1)
Na ₂ O	2.04
K ₂ O	2.43
CaO	1.48
SrO	4.49
BaO	3.65
MgO	0.04
MnO	0.11
FeO	0.22
ZnO	5.02
Al ₂ O ₃	0.15
SiO ₂	39.33
TiO ₂	18.89
Nb ₂ O ₅	12.57
<u>H₂O</u>	<u>11.1</u>
Total	101.42

(1) Mt. Lepkhe-Nelm, Lovozero massif, Kola Peninsula, Russia; average of 8 electron microprobe analyses, H₂O by TGA; corresponding to (Na_{0.68}Ca_{0.32}) $\Sigma=1.00$ (Sr_{0.53}Na_{0.12}) $\Sigma=0.65$ (K_{0.63}Ba_{0.29}) $\Sigma=0.92$ (Zn_{0.75}Fe_{0.04}Mn_{0.02}Mg_{0.01}) $\Sigma=0.82$ (Ti_{2.88}Nb_{1.15}) $\Sigma=4.03$ (Si_{7.96}Al_{0.04}) $\Sigma=8$ O₂₄[O_{2.58}(OH)_{1.42}] $\Sigma=4$ ·6.80H₂O.

Mineral Group: Labuntsovite group.

Occurrence: In cavities in eudialyte-aegirine-feldspar pegmatite in an alkaline massif.

Association: Lamprophyllite, natrolite, halloysite, ranciéite, kuzmenkoite-Zn, tsepinite-Na.

Distribution: At Mt. Lepkhe-Nelm, Lovozero alkaline massif, Kola Peninsula, Russia.

Name: Honors Russian geologist Aleksey S. *Sakharov* (1910-1996) for his study of the Lovozero alkaline massif and a suffix indicates the predominance of Zn in the D structural site.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia.

References: (1) Pekov, I.V., N.V. Chukhanov, A.E. Zadov, K.A. Rozenberg, and R.K. Rastsvetaeva (2003) Alsakharovite-Zn, NaSrKZn(Ti,Nb)₄[Si₄O₁₂]₂(O,OH)₄·7H₂O, a new mineral of the labuntsovite group from the Lovozero massif, Kola Peninsula. *Zapiski Vseross. Mineral. Obshch.*, 132(1), 52-58 (in Russian, English abs.). (2) Rozenberg, K.A., R.K. Rastsvetaeva, I.V. Pekov, and N.V. Chukhanov (2002) New zinc-rich representative of the labuntsovite group: crystal structure and microtwinning. *Doklady Chemistry*, 383(4-6), 110-113. (3) (2004) *Amer. Mineral.*, 89(5-6), 894 (abs. refs. 1 & 2).