Crystal Data: Hexagonal. *Point Group*: $\bar{3}\,2/m$. As anhedral grains to 1 mm.

Physical Properties: *Cleavage*: None. *Tenacity*: Brittle. *Fracture*: Uneven. Hardness = ~5
D(meas.) = 2.75(5) D(calc.) = 2.85

Optical Properties: Transparent. *Color*: Cherry-red. *Streak*: White. *Luster*: Vitreous.
Optical Class: Anomalously biaxial (-). α = 1.580(2) β = 1.600(2) γ = 1.602(2) 2V(meas.) = <10°
2V(calc.) = 35.1°

Cell Data: *Space Group: R* $\bar{3}$ *m*. a = 10.294(6) c = 13.115(8) Z = 3

X-Ray Diffraction Pattern: Mt. Kedykverpakhk, Lovozero massif, Kola Peninsula, Russia.
2.640 (100), 3.265 (99), 3.330 (79), 7.37 (69), 3.686 (64), 2.576 (60), 5.26 (56)

Chemistry:

	(1)	(2)
Na_2O	20.41	22.08
CaO	0.42	
MnO	3.49	
Fe_2O_3	0.55	
SiO_2	52.46	51.37
TiO_2	1.34	
ZrO_2	11.33	17.56
H_2O	[10.20]	11.26
Total	100.20	100.00

(1) Mt. Kedykverpakhk, Lovozero massif, Kola Peninsula, Russia; average electron microprobe analysis supplemented by FTIR spectroscopy, H_2O calculated from structure; corresponds to $Na_{4.53}Zr_{0.63}Mn_{0.34}Ti_{0.11}Ca_{0.05}Fe^{3+}_{0.05}Si_6O_{14.43}(OH)_{3.56}(H_2O)_{2.11}$. (2) $Na_5Zr[Si_6O_{15}(OH)_3]\cdot 3H_2O$.

Mineral Group: Lovozerite group, cation-deficient member of the zirsinalite-lovozerite subgroup.

Occurrence: In leucocratic nepheline syenite (foyaite) of an alkaline massif.

Association: Microcline-perthite, nepheline, sodalite, aegirine, lamprophyllite, lueshite, umbozerite, lomonosovite, nastrophite, a mineral of the kazakovite-isinalite series, sphalerite, löllingite.

Distribution: From Mt. Kedykverpakhk, Lovozero alkaline massif, Kola Peninsula, Russia.

Name: Honors Dr. Andrey A. *Zolotarev* (b. 1982), Russian crystallographer, St. Petersburg State University, for his contributions to the crystal chemistry and mineralogy of titano- and zircon-silicates.

Type Material: Geological and Mineralogical Museum, Geological Institute, Kola Science Center of the Russian Academy of Sciences, Apatity, Russia (GIM 7910).

References: (1) Mikhailova, J.A., E.A. Selivanova, S.V. Krivovichev, Y.A. Pakhomovsky, N.V. Chukanov, and V.N Yakovenchuk (2022) The new mineral zolotarevite, $Na_5Zr[Si_6O_{15}(OH)_3]\cdot 2\text{-}3H_2O$, the first highly hydrated lovozerite-group member from the Lovozero alkaline massif, Kola Peninsula, Russia. Mineral. Mag., 86, 263-271.