Crystal Data: Isometric. *Point Group*: 4/*m* $\bar{3}$ 2/*m*. As small zones and irregular spots in kimzeyite-kerimasite or rarely as single crystals to 10 μm .

Physical Properties: *Cleavage*: None. *Fracture*: Irregular.
Tenacity: n.d. Hardness = n.d. D(meas.) = n.d. D(calc.) = 4.301

Optical Properties: Transparent. *Color*: Pale brown to yellow. *Streak*: Ashy yellow.
Luster: n.d.
Optical Class: Isotropic. *n* = ~ 1.9

Cell Data: *Space Group*: *Ia*3*d*. *a* = 12.50(3) Z = 8

X-ray Powder Pattern: Calculated pattern.
1.670 (100), 2.552 (88), 4.419 (65), 3.125 (60), 2.795 (47), 1.976 (27), 1.333 (26)

Chemistry:	(1)
UO_3	0.76
Nb_2O_5	0.08
Sb_2O_5	5.99
SiO_2	4.19
TiO_2	7.82
ZrO_2	7.90
SnO_2	23.96
HfO_2	0.20
Al_2O_3	11.06
Sc_2O_3	0.15
Fe_2O_3	10.05
CaO	36.02
FeO	0.79
Total	98.96

(1) Upper Chegem Caldera, Northern Caucasus, Kabardino-Balkaria, Russia; average of 7 electron microprobe analyses, ZrO_4, TiO_4,and Fe^{3+} confirmed by spectroscopy; corresponds to $(Ca_{2.97}Fe^{2+}_{0.03})_{\Sigma=3.00}(Sn_{1.02}Zr_{0.41}Ti_{0.26}Sb^{5+}_{0.24}Fe^{2+}_{0.03}U^{6+}_{0.02}Sc_{0.01}Hf_{0.01})_{\Sigma=2.00}$ $(Al_{1.39}Fe^{3+}_{0.80}Si_{0.45}Ti^{4+}_{0.36})_{\Sigma=3.00}O_{12}$.

Mineral Group: Schorlomite group of the garnet supergroup.

Occurrence: In a metasomatically-altered (sanidinite facies), carbonate-silicate xenolith in ignimbrite.

Association: Lakargiite, tazheranite, baddeleyite, baghdadite, magnesioferrite.

Distribution: From altered xenolith no.7 located 500 m from the Vorlan peak in the central part of the Upper Chegem Caldera, Northern Caucasus, Kabardino-Balkaria, Russia.

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Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (4026/1).

References: (1) Galuskina, I.O., E.V. Galuskin, K. Prusik, V.M. Gazeev, N.N. Pertsev, and P. Dzierżanowski (2013) Irinarassite $Ca_3Sn_2SiAl_2O_{12}$ - New garnet from the Upper Chegem Caldera, Northern Caucasus, Kabardino-Balkaria, Russia. Mineral. Mag., 77(6), 2857-2866. (2) (2015) Amer. Mineral., 100, 2009-2010 (abs. ref. 1).