

**Crystal Data:** Hexagonal. *Point Group:* 3m. As irregular grains to 2 mm in aggregates to 2 cm.

**Physical Properties:** *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Conchoidal. Hardness = 5-6  
D(meas.) = 2.86(2) D(calc.) = 2.84

**Optical Properties:** Transparent. *Color:* Reddish pink. *Streak:* White. *Luster:* Vitreous.  
*Optical Class:* Uniaxial (+).  $\omega = 1.598(1)$   $\varepsilon = 1.600(1)$

**Cell Data:** *Space Group:* R3m.  $a = 14.249(1)$   $c = 60.969(7)$   $Z = 3$

**X-ray Powder Pattern:** Mt. Rasvumchorr, Khibiny massif, Kola Peninsula, Russia.  
2.987 (100), 4.345 (81), 2.861 (73), 3.249 (57), 6.48 (47), 3.565 (41), 2.695 (40)

Chemistry:	(1)
Na <sub>2</sub> O	13.76
K <sub>2</sub> O	6.12
CaO	10.37
SrO	1.26
BaO	0.07
FeO	2.73
MnO	0.49
Ce <sub>2</sub> O <sub>3</sub>	0.11
Al <sub>2</sub> O <sub>3</sub>	0.17
SiO <sub>2</sub>	50.72
ZrO <sub>2</sub>	11.48
HfO <sub>2</sub>	0.14
TiO <sub>2</sub>	0.39
Nb <sub>2</sub> O <sub>5</sub>	0.34
Ta <sub>2</sub> O <sub>5</sub>	0.05
Cl	1.33
H <sub>2</sub> O	0.89
-O = Cl <sub>2</sub>	0.30
Total	100.12

(1) Mt. Rasvumchorr, Khibiny massif, Kola Peninsula, Russia; average electron microprobe analysis supplemented by IR spectroscopy, H<sub>2</sub>O by Penfield method; corresponds to  
 $\text{Na}_{27.10}(\text{K}_{7.93}\text{Ba}_{0.03})_{\Sigma=7.97}(\text{Ca}_{11.29}\text{Sr}_{0.74}\text{Ce}_{0.04})_{\Sigma=12.07}(\text{Fe}_{2.32}\text{Mn}_{0.42})_{\Sigma=2.74}(\text{Zr}_{5.69}\text{Ti}_{0.30}\text{Hf}_{0.04})_{\Sigma=6.03}(\text{Si}_{51.53}\text{Al}_{0.20}\text{Nb}_{0.16}\text{Ta}_{0.01})_{\Sigma=51.90}\text{O}_{144}[\text{O}_{2.14}(\text{OH})_{1.86}]\text{Cl}_{2.29} \cdot 1.71\text{H}_2\text{O}$ .

**Mineral Group:** Eudialyte group.

**Occurrence:** In alkaline pegmatite in zones of late intense potassium metasomatism.

**Association:** Nepheline, sodalite, potassium feldspar, aegirine, scherbakovite, villiaumite, natrite, nacaphite, rasvumite, davinciite.

**Distribution:** At Mt. Rasvumchorr, Khibiny alkaline massif, Kola Peninsula, Russia.

**Name:** Honors Russian crystallographer Ramiza K. *Rastsvetaeva* (b. 1936), Institute of Crystallography of the Russian Academy of Sciences, Moscow.

**Type Material:** A.E. Fersman Mineralogical Museum, Moscow, Russia.

**References:** (1) Khomyakov A P, Nechelyustov G N, Arakcheeva A V (2006) Rastsvetaevite,  $\text{Na}_{27}\text{K}_8\text{Ca}_{12}\text{Fe}_3\text{Zr}_6\text{Si}_4[\text{Si}_3\text{O}_9]_4[\text{Si}_9\text{O}_{27}]_4(\text{O}, \text{OH}, \text{H}_2\text{O})_6\text{Cl}_2$ , a new mineral with a modular eudialyte-like structure and crystal-chemical systematics of the eudialyte group. Zap. Ross. Mineral. Obshch., 135(1), 49-65.