

Darapiozite **$\text{KNa}_2\text{Li}(\text{Mn}, \text{Zn})_2\text{ZrSi}_{12}\text{O}_{30}$**

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Crystal Data: Hexagonal. *Point Group:* $6/m\ 2/m\ 2/m$ (probable). As masses, to 5 cm.**Physical Properties:** Hardness = 5 $D(\text{meas.}) = 2.92$ $D(\text{calc.}) = 2.80$ **Optical Properties:** Semitransparent. *Color:* Colorless, white, rarely brownish or pale to deep blue.*Optical Class:* Uniaxial (-). *Pleochroism:* $O = \text{violet}$; $E = \text{blue}$. $\omega = 1.580(2)$ $\epsilon = 1.575(2)$ **Cell Data:** *Space Group:* $P6/mcc$ (probable). $a = 10.32$ $c = 14.39$ $Z = 2$ **X-ray Powder Pattern:** Dara-i-Pioz massif, Tajikistan.

3.26 (100), 2.93 (65), 7.09 (60), 2.56 (55), 4.13 (50), 2.76 (45), 4.43 (40)

Chemistry:

	(1)
SiO_2	63.65
ZrO_2	5.00
RE_2O_3	0.96
Fe_2O_3	1.85
Nb_2O_5	0.90
MnO	8.25
ZnO	7.85
CaO	0.57
Li_2O	1.74
Na_2O	2.96
K_2O	5.14
LOI	0.58
Total	99.45

(1) Dara-i-Pioz massif, Tajikistan; corresponds to $\text{K}_{1.23}(\text{Na}_{1.08}\text{Li}_{0.58}\text{Ca}_{0.11})_{\Sigma=1.77}\text{Li}_{0.73}(\text{Mn}_{1.31}\text{Zn}_{1.10})_{\Sigma=2.41}(\text{Zr}_{0.46}\text{Fe}_{0.26}\text{Nb}_{0.07})_{\Sigma=0.79}\text{Si}_{12}[\text{O}, (\text{OH})]_{30}$.**Mineral Group:** Milarite group.**Occurrence:** In an alkalic massif.**Association:** Aegirine, quartz, sogdianite, eudialyte, manganoan pectolite, polyolithionite.**Distribution:** In the Dara-i-Pioz massif, Alai Range, Tien Shan, Tajikistan.**Name:** For the occurrence in the Dara-i-Pioz massif, Tajikistan.**Type Material:** Mineralogical Museum, St. Petersburg University, St. Petersburg; Institute of Mineralogy and Geochemistry of Rare Elements, Moscow; A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 76078.**References:** (1) Semenov, E.I., V.D. Dusmatov, A.P. Khomyakov, A.A. Voronkov, and M.E. Kazakova (1975) Darapiosite [darapiozite], a new mineral of the milarite group. *Zap. Vses. Mineral. Obshch.*, 104, 583–585 (in Russian). (2) (1976) *Amer. Mineral.*, 61, 1053–1054 (abs. ref. 1).