

Koashvite**Na₆(Ca, Mn)(Fe³⁺, Ti)Si₆O₁₈·H₂O**

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Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. Habit not stated.**Physical Properties:** *Fracture:* Conchoidal. Hardness = 6 VHN = 680–740 (20 g load).
D(meas.) = 2.98–3.02 D(calc.) = 3.069**Optical Properties:** Transparent. *Color:* Pale yellow. *Luster:* Vitreous.
Optical Class: Biaxial (-). *Dispersion:* $r > v$, weak. $\alpha = 1.637$ $\beta = 1.643$ $\gamma = 1.648$
2V(meas.) = 83°**Cell Data:** *Space Group:* Pmnb. $a = 10.179(1)$ $b = 20.899(2)$ $c = 7.335(1)$ $Z = 4$ **X-ray Powder Pattern:** Mt. Koashva, Russia.

2.581 (100), 1.820 (70), 3.66 (50), 3.28 (50), 1.504 (50), 2.620 (40), 1.476 (40)

Chemistry:

	(1)
SiO ₂	51.00
TiO ₂	5.07
Fe ₂ O ₃	5.42
MnO	4.20
MgO	trace
CaO	6.00
Na ₂ O	25.60
K ₂ O	0.38
H ₂ O	2.27
Total	99.94

(1) Mt. Koashva, Russia; corresponds to (Na_{5.88}K_{0.06})_{Σ=5.94}(Ca_{0.76}Mn_{0.42})_{Σ=1.18}(Fe³⁺_{0.48}Ti_{0.45})_{Σ=0.93}Si_{6.05}O_{17.88}·0.90H₂O.**Mineral Group:** Lovozerite group.**Occurrence:** As veinlets replacing lomonosovite in an ultra-agpaitic pegmatite in an alkalic massif.**Association:** Lomonosovite, pectolite, villiaumite, natrophosphate.**Distribution:** On Mt. Koashva, Khibiny massif, Kola Peninsula, Russia.**Name:** For the locality, Mt. Koashva, Kola Peninsula, Russia.**Type Material:** A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 75148; National School of Mines, Paris, France.**References:** (1) Kapustin, Y.L., Z.V. Pudovkina, A.V. Bykova, and G.V. Lyubomilova (1974) Koashvite, a new mineral. Zap. Vses. Mineral. Obshch., 103, 559–566 (in Russian). (2) (1975) Amer. Mineral., 60, 487 (abs. ref. 1). (3) Chernitsova, N.M., Z.A. Pudovkina, A.A. Voronkov, and Y.A. Pyatenko (1980) Crystal structure of koashvite Na₆(Ca, Mn)_{1+0.5x}(Fe³⁺_xTi_{1-x})[Si₆O₁₈]. Mineral. Zhurnal, 2(5), 40–44 (in Russian). (4) (1981) Chem. Abs., 94, 39866 (abs. ref. 3).