

Crystal Data: Hexagonal. *Point Group:* 6/m 2/m 2/m. As very thin, fibers to 2 mm long, and commonly fills small cavities as satiny mats.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* Fragile, flexible. *Hardness =* n.d. D(meas.) = 2.16 D(calc.) = 2.18

Optical Properties: Transparent. *Color:* White. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Uniaxial (+); nearly isotropic. $\epsilon = 1.472(3)$ $\omega = 1.471(3)$

Cell Data: *Space Group:* P6₃/mmc. $a = 18.2343(7)$ $c = 7.6371(2)$ $Z = 1$

X-ray Powder Pattern: U.S. Borax mine, Boron, California, USA. 9.08 (100), 3.787 (80), 6.86 (70), 5.95 (70), 3.150 (70), 4.681 (40), 3.511 (40)

Chemistry:	(1)
	SiO ₂ 57.65
	Al ₂ O ₃ 14.35
	Fe ₂ O ₃ 0.65
	MgO 0.22
	CaO 0.18
	BaO 0.14
	Na ₂ O 8.07
	K ₂ O 0.03
	<u>H₂O 18.70</u>
	Total 99.99

(1) U.S. Borax mine, Boron, California, USA; electron microprobe analysis, H₂O by TGA, corresponding to (Na_{7.52}K_{0.02}Mg_{0.16}Ca_{0.09}Ba_{0.03})[Fe_{0.24}Al_{8.13}Si_{27.71}O₇₂] \cdot 29.98H₂O.

Mineral Group: Zeolite group.

Occurrence: Filling cavities in basalt overlain by layers of silt and clay that are overlain by lacustrine deposits of silt and sodium borate with a few interbeds of rhyolite tuff. Likely affected by extensive sodium cation exchange.

Association: Ferroan saponite, phillipsite-Na, gmelinite-Na, mordenite, clinoptilolite-Na, chabazite-Na, heulandite-Na, analcime.

Distribution: At the U.S. Borax mine, Boron, California, USA.

Name: Suffix, *Na*, signifies the sodium-dominant analog of *mazzite*-Mg.

Type Material: n.d.

References: (1) Arletti, R., E. Galli, G. Vezzalini, and W.S. Wise (2005) Mazzite-Na, a new zeolite from Boron, California: Its description and crystal structure. *Amer. Mineral.*, 90, 1186-1191.