

Crystal Data: Orthorhombic. *Point Group:* n.d. Pseudomorphous after jadeite, as skeletal crystals, to 20 mm, and rarely as pseudo prismatic crystals.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = ~5-5.5
D(meas.) = n.d. D(calc.) = 2.386

Optical Properties: Transparent. *Color:* White to yellow, colorless in thin section.

Streak: White. *Luster:* Vitreous to greasy.

Optical Class: Biaxial (-). $\alpha = 1.503$ $\beta = 1.506$ $\gamma = 1.508$ $2V(\text{calc.}) = 78^\circ$ [synthetic nepheline hydrate I]

Cell Data: *Space Group:* $Pna2_1$. $a = 16.426$ $b = 15.014$ $c = 5.223$ $Z = 4$ [synthetic orthorhombic $\text{Na}_3\text{Al}_3\text{Si}_3\text{O}_{12}\cdot 2\text{H}_2\text{O}$]

X-ray Powder Pattern: Calculated pattern. [identifiable only by a combination of scanning electron microscopy, electron microprobe analyses and electron backscatter diffraction]
3.41 (100), 4.41 (77), 2.97 (70), 2.61 (40), 8.21 (36), 7.51 (32), 2.45 (29)

Chemistry:	(1)
Na ₂ O	19.67
MgO	0.06
SiO ₂	38.93
Al ₂ O ₃	33.00
K ₂ O	0.08
CaO	0.36
FeO	0.06
MnO	0.01
BaO	0.07
H ₂ O	[7.76]
Total	100.00

(1) Tawmaw-Hpakant Jade Tract, Myanmar; average of 10 electron microprobe analyses, H₂O by difference; corresponding to $(\text{Na}_{2.94}\text{Ca}_{0.03}\text{K}_{0.01}\text{Mg}_{0.01})_{\Sigma=2.99}\text{Al}_{3.00}\text{Si}_{3.00}\text{O}_{12}\cdot 2\text{H}_{1.99}\text{O}$.

Occurrence: In serpentinized peridotite and related to the hydration of trinepheline during the late stage of metamorphism along veins in a jadeite deposit.

Association: Nepheline, trinepheline, more rarely with albite, banalsite, stronalsite.

Distribution: From the Tawmaw-Hpakant Jade Tract, Hpakant Township, Mohnyin District, Kachin State, Myanmar.

Name: Honors Jacques Fabriés (1932-2000), professor of Mineralogy, National Natural History Museum, Paris, France, where he served as chair of Mineralogy from 1969 until 1998, and was the Museum director (1990-1994).

Type Material: National Museum of Natural History, Paris, France (MNHN 212.001).

References: (1) Ferraris, C., G.C. Parodi, S. Pont, B. Rondeau, and J-P. Lorand (2014) Trinepheline and fabriesite: two new mineral species from the jadeite deposit of Tawmaw (Myanmar). *European Journal of Mineralogy*, 26(2), 257-265. (2) (2014) *Amer. Mineral.*, 99, 1808-1809 (abs. ref. 1).