

Crystal Data: Triclinic. *Point Group:* 1. Crystals fine, slender needles, to 5 mm, elongated || [001]. *Twinning:* Repeated, lamellae || {010} cleavage.

Physical Properties: *Cleavage:* Distinct on {010}. Hardness = n.d. D(meas.) = 2.21–2.24 D(calc.) = 2.21

Optical Properties: Transparent to translucent. *Color:* White. *Luster:* Vitreous. *Optical Class:* Biaxial (+). $n = 1.535(2)$, very low birefringence. $2V(\text{meas.}) = \sim 70^\circ$

Cell Data: *Space Group:* P1. $a = 7.558(3)$ $b = 9.793(5)$ $c = 7.339(5)$ $\alpha = 111.77(7)^\circ$ $\beta = 103.50(5)^\circ$ $\gamma = 86.53(3)^\circ$ $Z = 1$

X-ray Powder Pattern: Crestmore, California, USA.
9.25 (vs), 3.36 (vsb), 2.82 (vs), 2.47 (ms), 1.83 (ms), 1.90 (mw), 1.79 (mw)

Chemistry:	(1)	(2)	(3)
SiO ₂	55.	56.17	55.05
CaO	24.	26.10	25.69
H ₂ O	19.6	16.83	19.26
Total	99.	99.10	100.00

(1) Crestmore, California, USA. (2) Do.; probably slightly dehydrated. (3) Ca₃Si₆O₁₅•7H₂O.

Occurrence: In a contact metamorphosed limestone deposit (Crestmore, California, USA).

Association: Apophyllite (Crestmore, California, USA); heulandite, apophyllite (Caxias do Sul, Brazil).

Distribution: In the USA, from Crestmore, Riverside Co., California, and at Landsman's Camp, Aravaipa district, Graham Co., Arizona. At Caxias do Sul, Rio Grande do Sul, Brazil. In the Kochbulak deposit, eastern Uzbekistan.

Name: An anagram of OKENite, for which it was originally mistaken.

Type Material: National Museum of Natural History, Washington, D.C., USA, 95637.

References: (1) Gard, J.A. and H.F.W. Taylor (1956) Okenite and nekoite (a new mineral). *Mineral. Mag.*, 31, 5–20. (2) Chalmers, R.A., A.W. Nicol, and H.F.W. Taylor. (1962) The composition of nekoite. *Mineral. Mag.*, 33, 70–71. (3) Alberti, A. and E. Galli (1980) The structure of nekoite, Ca₃Si₆O₁₅•7H₂O, a new type of sheet silicate. *Amer. Mineral.*, 65, 1270–1276.