

**Crystal Data:** Monoclinic. *Point Group:* 2 or 2/*m*. As irregular grains, to 0.2 mm.

**Physical Properties:** *Fracture:* Conchoidal. Hardness = n.d. D(meas.) = 2.9  
D(calc.) = 3.08

**Optical Properties:** Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous.  
*Optical Class:* Biaxial (+). *Orientation:* Y = b; Z = a; X ∧ c = 8°. *Dispersion:* r > v, weak to moderate. α = 1.632(2) β = 1.634(2) γ = 1.640(2) 2V(meas.) = 55(5)° 2V(calc.) = 60°

**Cell Data:** *Space Group:* P2<sub>1</sub> or P2<sub>1</sub>/*m*. a = 6.895(2) b = 20.640(3) c = 6.920(2)  
β = 98° Z = 4

**X-ray Powder Pattern:** İkizdere, Turkey.

3.062 (100), 2.585 (90), 3.442 (60), 2.851 (50), 2.635 (50), 5.71 (35), 2.912 (30)

**Chemistry:**

	(1)
SiO <sub>2</sub>	40.38
Al <sub>2</sub> O <sub>3</sub>	0.05
MnO	0.04
MgO	0.13
CaO	50.20
Na <sub>2</sub> O	0.30
H <sub>2</sub> O	7.0
Total	98.10

(1) İkizdere, Turkey; by electron microprobe, H<sub>2</sub>O by weight loss; corresponds to  
(Ca<sub>3.99</sub>Na<sub>0.05</sub>Mg<sub>0.01</sub>)<sub>Σ=4.05</sub>Si<sub>3.07</sub>O<sub>12</sub>H<sub>3.66</sub>.

**Occurrence:** A product of retrograde alteration, in a skarn produced by intrusion of a granite into sediments.

**Association:** Spurrite, rustumite, calcite, vesuvianite, hillebrandite, defernite, tobermorite, killalaite, garnet, perovskite, molybdenite.

**Distribution:** From İkizdere, northwest of Varda Yaylasi, Trabzon Province, Turkey.

**Name:** For Trabzon Province, Turkey, where it was first found.

**Type Material:** Natural History Museum, Geneva, Switzerland, 435/78.

**References:** (1) Sarp, H. and G. Burri (1986) Trabzonite Ca<sub>4</sub>Si<sub>3</sub>O<sub>10</sub>•2H<sub>2</sub>O a new hydrated silicate. Schweiz. Mineral. Petrog. Mitt., 66, 453 (abs.). (2) (1988) Mineral. Abs., 39, 303 (abs. ref. 1). (3) Sarp, H. and G. Burri (1987) Trabzonite Ca<sub>4</sub>Si<sub>3</sub>O<sub>10</sub>•2H<sub>2</sub>O, a new mineral. Bull. Geol. Soc. Turkey, 30, 57–60 (in Turkish with English abs.). (4) (1988) Amer. Mineral., 73, 1497 (abs. ref. 3).