

Crystal Data: Triclinic. *Point Group:* $\bar{1}$ or 1. Crystals are platy on {100}, with rhombic outline showing {100}, {011}, {01 $\bar{1}$ }, to 2 mm, in stacked aggregates. *Twinning:* On {100}, polysynthetic lamellae observed optically.

Physical Properties: *Cleavage:* Perfect on {100}; good on {011} and {01 $\bar{1}$ }.
Hardness = n.d. D(meas.) = 2.73(2) D(calc.) = 2.77

Optical Properties: Transparent. *Color:* Colorless. *Luster:* Pearly on cleavages.
Optical Class: Biaxial (+). *Orientation:* X = c; Z = b. *Dispersion:* r < v, strong.
 $\alpha = 1.549(2)$ $\beta = [1.551]$ $\gamma = 1.621(2)$ 2V(meas.) = 25(1)°

Cell Data: *Space Group:* $A\bar{1}$ or A1. a = 20.80(62) b = 11.72(35) c = 6.63(20)
 $\alpha = 90^\circ 00(05)'$ $\beta = 90^\circ 48(5)'$ $\gamma = 91^\circ 57(5)'$ Z = 4

X-ray Powder Pattern: Emet, Turkey.
10.40 (vs), 3.32 (vs), 2.592 (vs), 3.45 (s), 2.84 (s), 4.09 (m), 2.191 (m)

| Chemistry: | (1) | (2) |
|-------------------------------|-------|--------|
| B ₂ O ₃ | 58.15 | 58.62 |
| MgO | 0.04 | |
| CaO | 0.25 | |
| SrO | 30.88 | 31.73 |
| H ₂ O ⁺ | 9.63 | |
| H ₂ O ⁻ | 0.15 | |
| H ₂ O | | 9.65 |
| rem. | 0.06 | |
| Total | 99.16 | 100.00 |

(1) Emet, Turkey; MgO and CaO by AA. (2) Sr₂B₁₁O₁₆(OH)₅•H₂O.

Polymorphism & Series: Trimorphous with *p*-veatchite and veatchite.

Occurrence: Uncommon in evaporite borate deposits formed by volcanic activity.

Association: Realgar, orpiment, colemanite, hydroboracite, montmorillonite.

Distribution: From the Killik, Hisarcık, and Espey borate mines, near Emet, Kütahya Province, Turkey.

Name: As a polytype of *veatchite*, crystallizing in the anorthic (triclinic) system.

Type Material: Mining Department, Istanbul Technical University, Istanbul, Turkey; National Museum of Natural History, Washington, D.C., USA, 145911.

References: (1) Kumbasar, I. (1979) Veatchite-A, a new modification of veatchite. Amer. Mineral., 64, 362–366.