Hatrurite Ca_3SiO_5

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Crystal Data: n.d. *Point Group:* n.d. Crystals pseudohexagonal, to about 50 μ.

Physical Properties: Hardness = n.d. D(meas.) = n.d. D(calc.) = n.d.

Optical Properties: Transparent to translucent. *Color:* Light gray; colorless in thin section. *Optical Class:* Biaxial (–). n = n.d.; birefringence ~0.006 2V(meas.) = Small.

Cell Data: *Space Group:* n.d. Z = n.d.

X-ray Powder Pattern: Hatrurim Formation, Israel; stronger lines overlapped by larnite. 3.03 (m), 1.767 (mw), 2.96 (vw), 1.759 (vw), 1.484 (vw), 1.452 (vw)

Chemistry:

	(1)
SiO_2	26.1
TiO_2	0.3
Al_2O_3	0.4
Fe_2O_3	0.2
MgO	trace
CaO	72.8
Total	99.8

(1) Hatrurim Formation, Israel; by electron microprobe, corresponds to $Ca_{2.97}Al_{0.01}Ti_{0.01}SiO_5$.

Occurrence: In a high-temperature contact metamorphic assemblage in a larnite-brownmillerite-mayenite rock, probably derived from fine-grained sediments.

Association: Nagelschmidtite, larnite, brownmillerite, mayenite.

Distribution: In the Hatrurim Formation, Israel.

Name: For the Hatrurim Formation in Israel.

Type Material: n.d.

References: (1) Gross, S. (1977) The mineralogy of the Hatrurim Formation, Israel. Geol. Sur. Israel Bull. 70, 35–36. (2) (1978) Amer. Mineral., 63, 425–427 (abs. ref. 1).

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