

**Crystal Data:** Orthorhombic. *Point Group:* n.d. Microcrystalline grains, to 4 μm, in porous punky masses.

**Physical Properties:** *Fracture:* Subconchoidal to irregular. Hardness = 1, in aggregate. D(meas.) = 2.141(3) D(calc.) = 2.116 by the rule of Gladstone and Dale.

**Optical Properties:** Transparent. *Color:* White; in transmitted light, colorless. *Optical Class:* Biaxial. *n* = 1.466 2*V*(meas.) = n.d.

**Cell Data:** *Space Group:* n.d. *a* = 14.519(5) *b* = 18.80(1) *c* = 15.938(4) *Z* = [28]

**X-ray Powder Pattern:** Trinity Center, California, USA.

14.50 (100), 3.424 (82), 3.143 (35), 3.627 (27), 3.540 (25), 7.31 (22), 7.07 (21)

Chemistry:	(1)	(2)	(1)	(2)
SiO <sub>2</sub>	88.93	90.91	K <sub>2</sub> O	0.01
TiO <sub>2</sub>	0.01		F	0.00
Al <sub>2</sub> O <sub>3</sub>	0.01		Cl	0.01
Fe <sub>2</sub> O <sub>3</sub>	0.04		H <sub>2</sub> O <sup>+</sup>	3.13
FeO	0.02		H <sub>2</sub> O <sup>-</sup>	6.65
MnO	0.00		H <sub>2</sub> O	9.09
MgO	0.71		CO <sub>2</sub>	0.07
CaO	0.11		P <sub>2</sub> O <sub>5</sub>	0.00
Na <sub>2</sub> O	0.05		Total	99.75 100.00

(1) Trinity Center, California, USA. (2) 3SiO<sub>2</sub>•H<sub>2</sub>O.

**Occurrence:** Formed by the leaching of sodium from magadiite by near-surface water.

**Association:** Magadiite.

**Distribution:** About 10 km east of Trinity Center, Trinity Co., California, USA.

**Name:** For the SILica and water of HYDRation in its composition.

**Type Material:** National Museum of Natural History, Washington, D.C., USA, 125042.

**References:** (1) Gude, A.J., 3rd and R.A. Sheppard (1972) Silhydrite, 3SiO<sub>2</sub>•H<sub>2</sub>O, a new mineral from Trinity County, California. *Amer. Mineral.*, 57, 1053–1065.