Mogánite $SiO_2 \cdot nH_2O$

Crystal Data: Monoclinic. *Point Group*: 2/*m*. Microcrystalline fibrous. *Twinning*: Frequently observed with (110) as plane of intergrowth.

Physical Properties: Cleavage: None. *Tenacity*: Brittle. *Fracture*: n.d. Hardness = 6
D(meas.) = 2.52 to 2.58 D(calc.) = 2.55

Optical Properties: Translucent. *Color*: Gray or brownish. *Streak*: n.d. *Luster*: Vitreous.
Optical Class: n = 1.524 to 1.531

Cell Data: Space Group: $I12/a1$. a = 8.758(2) b = 4.876(1) c = 10.715(2) β = 90.08(3)° Z = 12

X-ray Powder Pattern: Mogán, Grand Canary Island, Spain.
3.33 (100), 3.39 (50), 4.45 (13), 1.83 (13), 3.11 (11), 1.369 (11), 2.29 (9)

Chemistry: Nearly pure silica, with water contents of ~2-3 wt%.

Occurrence: A common component of agate, chert, flint.

Association: Quartz, chalcedony, opal.

Distribution: From Mogán, Grand Canary Island, Spain [TL].

Name: For *Mogán*, Grand Canary Island, Spain.

Type Material: n.d.

References: (1) Flörke, O.W., U. Flörke, and U. Giese (1984) Moganite: a new microcrystalline silica mineral. N. Jb. Mineral. Ab., 149, 325-336. (2) Hantsch, U., B. Winkler, C.J. Pickard, J.D. Gale, M.C. Warren, V. Milman, and F. Mauri (2005) Theoretical investigation of moganite. Eur. J. Mineral., 17, 21-30. (3) (1985) Amer. Mineral., 70, 874 (abs. ref. 1).