Imogolite

\[ \text{Al}_2\text{SiO}_3(\text{OH})_4 \]

Crystal Data: n.d. Point Group: n.d. Conchoidal to earthy; as microscopic threadlike particles, and bundles of fine tubes, each about 20 Å in diameter.


\[ \text{D(meas.)} = 2.70 \quad \text{D(calc.)} = 2.70 \]


Cell Data: Space Group: n.d. \( c = 8.4; 5.1 \perp c \) \( Z = \text{n.d.} \)

X-ray Powder Pattern: Uemura, Japan; by electron diffraction.

\[ 21.0 (100b), 4.12 (100), 1.40 (100), 11.7 (80b), 7.8 (80b), 3.75 (80b), 2.32 (80b) \]

Chemistry: An analysis of natural material does not appear to be available.

Occurrence: In soils derived from volcanic ash.

Association: Allophane, quartz, cristobalite, gibbsite, vermiculite, “limonite”.

Distribution: Probably quite widespread in volcanic-ash-derived soils. In the Misutsuchi bed, Iijima, Nagano Prefecture; the Kanumatsuchi bed, Kamuma, Tochigi Prefecture; and from Uemura, Kumamoto Prefecture, Japan.

Name: For the name, Imogo, of the brownish yellow volcanic ash soil of Japan in which it occurs.

Type Material: n.d.