

Crystal Data: Cubic. *Point Group:* $4/m\bar{3}2/m$. [Massive.]

Physical Properties: *Cleavage:* {001}, perfect; parting on {011} (synthetic). Hardness = 3.5
D(meas.) = n.d. D(calc.) = 3.35

Optical Properties: Semitransparent. *Color:* Colorless.
Optical Class: Isotropic. $n = 1.837$

Cell Data: *Space Group:* $Fm\bar{3}m$ (synthetic). $a = 4.81059(9)$ $Z = 4$

X-ray Powder Pattern: Synthetic.
2.4059 (100), 1.7009 (54), 2.777 (34), 1.4505 (16), 1.3888 (16), 1.0758 (16), 0.8018 (16)

Chemistry: No analyses of natural material appear to be available.

Occurrence: In thermally metamorphosed calcareous ejecta (Vesuvius, Italy); in burning coal measures (Kopeysk, Russia).

Association: Calcite (Vesuvius, Italy); fluorellestadite, periclase, magnesioferrite, hematite, srebrodolskite, anhydrite (Kopeysk, Russia).

Distribution: On Vesuvius, Campania, Italy. From around Kopeysk, Chelyabinsk coal basin, Southern Ural Mountains, Russia. In the Campbell mine, Bisbee, Cochise Co., Arizona, USA.

Name: From the Old English, *quicklime*.

References: (1) Palache, C., H. Berman, and C. Frondel (1944) Dana's system of mineralogy, (7th edition), v. I, 503. (2) McMurdie, H. (1986) Powder Diff., 1, 266.