Matteuccite

\( \text{NaHSO}_4 \cdot \text{H}_2\text{O} \)

©2001-2005 Mineral Data Publishing, version 1

Crystal Data: Monoclinic (synthetic). Point Group: \( m \). A massive component of fumarolic stalactites.


Optical Properties: Semitransparent. Color: Colorless. Optical Class: Biaxial (−) (synthetic). \(\alpha = 1.43 \quad \beta = 1.46 \quad \gamma = 1.48 \) 2V(meas.) = Large.

Cell Data: Space Group: \( Aa \) (synthetic). \( a = 8.213 \quad b = 7.812 \quad c = 7.805 \quad \beta = 120.04^\circ \). \( Z = 4 \)

X-ray Powder Pattern: Synthetic. 3.557 (100), 3.462 (70), 3.422 (55), 5.110 (35), 3.633 (30), 2.759 (20), 3.378 (18)

Chemistry: (1) Identification depended on a single strong X-ray line at 3.47 which was interpreted as representing the two strongest lines of the synthetic compound.

Occurrence: In stalactites formed in a volcanic crater.

Association: Mercallite, ralstonite.

Distribution: From Vesuvius, Campania, Italy.

Name: Honors Vittorio Matteucci (1862–1909), Director of the Vesuvius Laboratory, Vesuvius, Italy.

Type Material: University of Florence, Florence, Italy, 1970/I.