

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

Physical Properties: Hardness = n.d. *D*(meas.) = 2.118 (synthetic). *D*(calc.) = 2.124

Optical Properties: Semitransparent. *Color:* Colorless.

Optical Class: Biaxial (−) (synthetic). $\alpha = 1.43$ $\beta = 1.46$ $\gamma = 1.48$ *2V*(meas.) = Large.

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

References: (1) Carobbi, G. and C. Cipriani (1952) Ralstonite e bisolfato sodico (matteuccite) fra i prodotti della fumarole vesuviane. *Atti Rend. Accad. Lincei*, 12, 23–29 (in Italian). (2) (1954) *Amer. Mineral.*, 39, 848 (abs. ref. 1). (3) (1971) *NBS Mono.* 25, 9, 52.