

Crystal Data: Monoclinic. *Point Group:* 2/m. As clusters < 0.5 mm of stacked, short prismatic and rounded crystals or powdery crusts.

Physical Properties: *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Conchoidal. *Hardness* = ~3. *D(meas.)* = 3.80(5) *D(calc.)* = 3.838. Nonfluorescent.

Optical Properties: Transparent to translucent. *Color:* Colorless, white. *Streak:* White. *Luster:* Vitreous.

Optical Class: Biaxial(-). $\alpha = 1.580(2)$ $\beta = 1.624(2)$ $\gamma = 1.640(2)$ $2V(\text{meas.}) = 70(5)^\circ$ $2V(\text{calc.}) = 61^\circ$

Cell Data: *Space Group:* P2₁/c. $a = 7.633(2)$ $b = 7.458(2)$ $c = 8.151(2)$ $\beta = 122.35(1)^\circ$ $Z = 4$

X-Ray Diffraction Pattern: Esperanza Mine, Kaminiza area, Lavrion Mining District, Greece. 3.578 (100), 4.890 (66), 3.230 (43), 2.525 (33), 2.395 (29), 3.741 (25), 3.292 (15)

Chemistry:	(1)	(2)
CdO	47.91	56.69
SO ₃	36.43	35.35
CuO	5.98	
FeO	1.27	
MgO	0.22	
H ₂ O	[8.28]	7.96
Total	100.09	100.00

(1) Esperanza Mine, Kaminiza area, Lavrion Mining District, Greece; average electron microprobe analysis, H₂O calculated; corresponds to (Cd_{0.81}Cu_{0.16}Fe_{0.04}Mg_{0.01}) $\Sigma=1.02$ S_{0.99}O₄·H₂O.

(2) Cd(SO₄)·H₂O.

Occurrence: A secondary mineral from the weathering of primary hawleyite and greenockite.

Association: Lazaridisite, sphalerite, galena, edwardsite, chalcantite, gypsum, greenockite.

Distribution: At the Esperanza Mine, Kaminiza area, #19 Mine, Ano Sounio area, and at the North Mine, Villia area, Lavrion Mining District, Greece.

Name: Honors Professor Panagiotis *Voudouris* (b. 1962), Department of Mineralogy and Petrology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece, in recognition of his groundbreaking work on the Lavrion deposits.

Type Material: Institute for Mineralogy and Crystallography, University of Vienna, Austria, (HS13.077).

References: (1) Rieck, B., C.L. Lengauer, and G. Giester (2019) Voudourisite, Cd(SO₄)·H₂O, and lazarisite, Cd₃(SO₄)₃·8H₂O, two new minerals from the Lavrion Mining District, Greece. *Mineral. Mag.*, 83, 551-559.