

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As equidimensional crystals, and as rectangular crystals elongated along [010] to 0.2 mm, flattened on {001}, showing {001}, {010}, {100}, {110}, and {101}; also, pulverulent and as pseudomorphs after olivenite.

Physical Properties: *Cleavage:* Perfect on {001}. *Fracture:* Conchoidal. *Tenacity:* Brittle. Hardness = n.d. D(meas.) = n.d. D(calc.) = 4.72(1) Nonfluorescent. Soluble in HCl.

Optical Properties: Translucent. *Color:* Dark pistachio-green. *Streak:* Yellowish green. *Luster:* Vitreous to adamantine.

Optical Class: Biaxial (+). $\alpha = 1.81(1)$ $\beta = 1.82(1)$ $\gamma = 1.86(1)$ $2V(\text{meas.}) = 57(3)^\circ$ $2V(\text{calc.}) = 54(1)^\circ$ *Dispersion:* Moderate, $r > v$. *Orientation:* $X = a$, $Y = c$, $Z = b$.

Pleochroism: Moderate, $X =$ light olive-green, $Y =$ olive-green, $Z =$ dark green.

Cell Data: *Space Group:* *Pmma*. $a = 8.3212(8)$ $b = 2.9377(3)$ $c = 4.6644(5)$ $Z = 2/3$

X-ray Powder Pattern: Roua mines, upper Var valley, Alpes-Maritimes, France. 3.104 (100), 2.486 (70), 1.672 (30), 2.400 (25), 1.596 (25), 1.330 (25), 4.065 (15)

Chemistry:	(1)	(2)
CuO	48.77	49.05
As ₂ O ₅	47.68	47.25
H ₂ O	[3.55]	[3.70]
Total	100.00	100.00

(1) Roua mines, upper Var valley, Alpes-Maritimes, France; average electron microprobe analysis, H₂O by difference; corresponding to Cu_{2.99}As_{2.02}H_{1.92}O₉. (2) Cu₃(OH)₂As₂O₇.

Occurrence: A secondary mineral within ~1 mm geodes of cuprite.

Association: Olivenite, cornubite, connellite, clinotyrolite, brochantite, malachite, trippkeite, pharmacosiderite, gilmairite, strashimirite, cuprite, native copper, algonite, domeykite.

Distribution: From the old Cu mines of Roua, upper Var valley (the Daluis gorge), western margin of the Barrot Dome, Alpes-Maritimes, France.

Name: Honors Swiss scientist *Paracelse*, who was Philippus Theophrastus van Hohenheim (1493-1541). Paracelse is a Greek-Roman translation of Hohenheim.

Type Material: Natural History Museum, Geneva, Switzerland (447.010).

References: (1) Sarp, H. and R. Cerný (2001) Theoparacelsite, Cu₃(OH)₂As₂O₇, a new mineral: its description and crystal structure. *Archs Sci. Genève*, 54, 7-14. (2) (2002) *Amer. Mineral.*, 87, 356-357 (abs. ref. 1).