

Parádsasvárite**(Zn,Cu)Zn(CO₃)(OH)₂**

Crystal Data: Monoclinic. *Point Group:* 2/m. As bladed crystals to 80 μm; as globular aggregates of divergent crystals to 0.2 mm.

Physical Properties: *Cleavage:* None. *Fracture:* Fibrous. *Tenacity:* Brittle.
Hardness = ~ 2-3 D(meas.) = n.d. D(calc.) = 4.175

Optical Properties: Translucent. *Color:* White with pale bluish tint, pale beige (aggregates).
Streak: White. *Luster:* Vitreous (crystals), silky (sections of globules), dull (aggregate surfaces).
Optical Class: n.d. *n*(calc.) = 1.764 *Pleochroism:* Weak, colorless to very pale green.

Cell Data: *Space Group:* P2₁/a. *a* = 12.92(1) *b* = 9.372(7) *c* = 3.159(4) *β* = 110.4(1)° *Z* = 4

X-ray Powder Pattern: Parádsasvár, Mátra Mountains, Hungary.
5.085 (100), 3.703 (87), 6.054 (67), 2.603 (62), 2.539 (36), 3.021 (25), 2.971 (25)

Chemistry:	(1)	(2)
ZnO	58.08	72.40
CuO	12.60	
PbO	1.27	
CO ₂	[19.50]	19.58
H ₂ O	[7.94]	8.02
Total	99.39	100.00

(1) Parádsasvár, Mátra Mountains, Hungary; average of 9 electron microprobe analyses supplemented by FTIR spectroscopy, CO₂ and H₂O from stoichiometry; corresponding to (Zn_{0.62}Cu_{0.36}Pb_{0.01})_{Σ=0.99}Zn_{1.00}(CO₃)(OH)₂. (2) Zn₂(CO₃)(OH)₂.

Mineral Group: Malachite-rosasite group.

Occurrence: As a secondary oxidation product of sphalerite and chalcopyrite in small cavities in calcite veins cutting argillized and pyritized andesites.

Association: Smithsonite, hydrozincite, hemimorphite, aurichalcite, rosasite, malachite, chalcophanite, azurite, cerussite, anglesite, devilline, linarite.

Distribution: From the Nagy-Lápafő area, Parádsasvár, Mátra Mountains, Hungary.

Name: For the locality that produced the first specimens, *Parádsasvár*, Hungary.

Type Material: Herman Ottó Museum, Miskolc, Hungary (2012.23).

References: (1) Fehér, B., S. Szakáll, N. Zajzon, and J. Mihály (2015) Parádsasvárite, a new member of the malachite-rosasite group from Parádsasvár, Mátra Mountains, Hungary. *Mineralogy and Petrology*, 109(4), 405-411. (2) (2016) *Amer. Mineral.*, 101, 1922-1923 (abs. ref. 1).