Crystal Data: Monoclinic. *Point Group*: 2/*m*. In granular or blocky aggregates and druses of crystals to 0.3 mm. *Twinning*: Common on (100).

Physical Properties: Cleavage: Perfect on $\{010\}$. Tenacity: Brittle. Fracture: n.d. Hardness = \sim 3 D(meas.) = 3.79(3) D(calc.) = 3.77(2) Nonfluorescent.

Optical Properties: Transparent. *Color*: Pale or light blue. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial (-). $\alpha = 1.725(1)$ $\beta = 1.734(1)$ $\gamma = 1.740(1)$ $2V(meas.) = 80(2)^{\circ}$ *Orientation*: Y = b, $X \land c = 49^{\circ}$. *Dispersion*: Weak, r < v.

Cell Data: Space Group: $P2_1/c$. a = 5.8618(2) b = 12.7854(5) c = 5.7025(2) $\beta = 109.425(2)$ ° Z = 2

X-Ray Diffraction Pattern: Maria Catalina mine, Pampa Larga district, Tierra Amarilla, Chile. 2.827 (100), 3.377 (92), 2.983 (89), 4.177 (59), 3.190 (56), 2.114 (49), 5.087 (42)

Chemistry:

	(1)
As_2O_5	50.37
CaO	24.75
CuO	17.80
SO_3	0.04
H_2O	[6.81]
Total	98.05

(1) Maria Catalina mine, Pampa Larga district, Tierra Amarilla, Chile; average electron microprobe analysis supplemented by Raman spectroscopy, water calculated by difference; corresponds to $Ca_{2.01}Cu_{1.01}(AsO_4)_{2.02}$ ·1.9 H_2O .

Mineral Group: Roselite group.

Occurrence: Secondary mineral in the oxidation zone of a Cu-As ore deposit.

Association: Quartz, baryte, mansfieldite, alumopharmacosiderite, conichalcite, metazeunerite, barahonite-(Al).

Distribution: From the Maria Catalina mine, Pampa Larga district, Tierra Amarilla, Chile.

Name: For the *RRUFF* project, an Internet-based internally consistent and integrated database of Raman spectra, X-ray diffraction, and chemical data for minerals.

Type Material: Mineral Museum, University of Arizona (18813) and the RRUFF project (R070431), Tucson, Arizona, USA.

References: (1) Yang, H., R.A. Jenkins, R.T. Downs, S.H. Evans, and K.T. Tait (2011) Rruffite, Ca₂Cu(AsO₄)₂·2H₂O, a new member of the roselite group, from Tierra Amarilla, Chile. Can. Mineral., 49, 877-884.