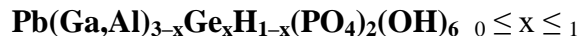


Galloplumbogummite**Crystal Data:** Hexagonal. *Point Group:* $\bar{3} 2/m$. As rhombohedral crystals, to 0.15 mm.**Physical Properties:** *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* n.d. *Hardness =* n.d.
D(meas.) = n.d. D(calc.) = 4.62**Optical Properties:** Transparent. *Color:* Colorless, frosted white. *Streak:* White. *Luster:* n.d.
Optical Class: Uniaxial (+). *n(calc.) =* 1.82**Cell Data:** *Space Group:* $R\bar{3} m$. *a =* 7.083(5) *c =* 16.742(3) *Z =* 3**X-ray Powder Pattern:** Tsumeb mine, Tsumeb, Namibia.

5.730 (100), 2.983 (78), 3.528 (24), 2.225 (19), 1.912 (17), 1.768 (15), 2.466 (12)

Chemistry:	(1)
PbO	34.45
CaO	0.42
Al ₂ O ₃	10.19
Ga ₂ O ₃	19.64
GeO ₂	5.93
Fe ₂ O ₃	0.20
P ₂ O ₅	20.04
SO ₃	1.71
H ₂ O	[7.42]
Total	100.00

(1) Tsumeb mine, Tsumeb, Namibia; average of 14 electron microprobe analyses supplemented by Raman spectroscopy, H₂O by difference; corresponding to (Pb_{1.04}Ca_{0.05})_{Σ=1.09}(Ga_{1.41}Al_{1.35}Ge_{0.38}Fe_{0.02})_{Σ=3.16}(P_{1.91}S_{0.14})_{Σ=2.05}O_{8.44}(OH)_{5.56}.**Mineral Group:** Alunite supergroup, plumbogummite subgroup.**Occurrence:** A secondary mineral derived by alteration of Ge-Ga minerals in the oxidized zone of a dolostone-hosted, polymetallic, hydrothermal deposit.**Association:** Germanite-renierite, chalcocite, Cd-rich sphalerite, galena, pyrite.**Distribution:** From the Second oxidation zone, Tsumeb mine, Tsumeb, Otjikoto Region, Namibia.**Name:** Reflects dominant essential *gallium* and the mineral's structural relation to *plumbogummite*.**Type Material:** Mineralogical Museum, University of Hamburg, Germany (TS 531).**References:** (1) Schlüter, J., T. Malcherek, and B. Mihailova (2014) Galloplumbogummite from Tsumeb, Namibia, a new member of the alunite group with tetravalent charge balance. *N. Jb. Miner. Abh.*, 191(3), 301-309. (2) (2016) *Amer. Mineral.*, 101, 1492-1493 (abs. ref. 1).