

Crystal Data: Monoclinic. *Point Group:* 2/m. Massive.

Physical Properties: *Cleavage:* n.d. *Tenacity:* n.d. *Fracture:* n.d. Hardness = n.d.
D(meas.) = n.d. D(calc.) = 3.048

Optical Properties: Translucent. *Color:* Dark green. *Streak:* n.d. *Luster:* n.d.
Optical Class: n.d.

Cell Data: *Space Group:* I2/a (C2/c). $a = 12.9243(4)$ $b = 7.5401(3)$ $c = 10.0271(3)$ $\beta = 91.267(3)^\circ$
 $Z = 4$

X-Ray Diffraction Pattern: Wheal Gorland mine, Parish of St. Day, Cornwall, United Kingdom.
6.560 (100), 6.067 (91), 3.066 (41), 3.035 (33), 2.841 (30), 3.970 (28), 2.728 (27)

Chemistry:	(1)
Fe ₂ O ₃	15.38
CuO	36.00
As ₂ O ₅	31.12
Al ₂ O ₃	1.15
CaO	0.02
SiO ₂	0.09
H ₂ O	[24.69]
Total	104.55

(1) Wheal Gorland mine, Parish of St. Day, Cornwall, United Kingdom; average electron microprobe analysis supplemented by Raman spectroscopy; corresponds to $\text{Cu}_{1.88}(\text{Fe}_{0.79}\text{Al}_{0.09})_{\Sigma=0.88}(\text{As}_{1.12}\text{O}_4)(\text{OH})_4 \cdot 3.65\text{H}_2\text{O}$.

Occurrence: Secondary in cavities in quartz-gossan, rich in undifferentiated micro-crystalline gray sulfides. Perhaps related closely to the formation of arsenic-rich gels/mineraloids.

Association: Liroconite, poorly crystalline arsenic phases including pharmacosiderite and olivenite-group minerals.

Distribution: Found in a museum specimen from the collections of Sir Arthur Russel, and before him, of the Cornish mineral collector and Member of Parliament, Philip Rashleigh (1729-1811) and labeled as liroconite. Estimated as being from the Wheal Gorland mine, Parish of St. Day, Cornwall, United Kingdom.

Name: After the world for Cornwall in the Cornish language (*Kernow*). The Fe³⁺-analogue of liroconite.

Type Material: Natural History Museum, London, England (BM1964, R8908).

References: (1) Rumsey, M.S., M.D. Welch, J. Spratt, A.K. Kleppe, and M. Števkó (2021) Kernowite, $\text{Cu}_2\text{Fe}(\text{AsO}_4)(\text{OH})_4 \cdot 4\text{H}_2\text{O}$, the Fe³⁺-analogue of liroconite from Cornwall, UK. *Mineral. Mag.*, 85, 283-290.