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Crystal Data: Orthorhombic. *Point Group:* mm2. As crude rounded crystals, in aggregates, and in massive lumps, to 1 cm.

Physical Properties: Fracture: Conchoidal. Tenacity: Very brittle. Hardness = 3.5 D(meas.) = 6.67 D(calc.) = 6.69

Optical Properties: Transparent in small fragments. Color: Black; greenish brown in transmitted light. Streak: Pale chocolate-brown. Luster: Adamantine. Optical Class: Biaxial (–); very high birefringence. Pleochroism: Strong; X=Z= olive-green; Y= red-brown. Dispersion: r< v, perceptible. Absorption: Y>X=Z. n=>2.00 $2V(\text{meas.})=80^\circ-90^\circ$

Cell Data: Space Group: $P2_1ma$. a = 7.86(1) b = 5.98(1) c = 8.62(1) Z = 4

X-ray Powder Pattern: Långban, Sweden.

3.192(10), 3.074(10), 2.706(4), 2.651(4), 1.622(4), 1.4380(4), 1.0878(4)

Chemistry:

	(1)	(2)
$\mathrm{As_2O_5}$	28.54	27.43
Fe_2O_3	0.00	
FeO	18.47	17.15
PbO	50.09	53.27
${\rm H_2O}$	1.21	2.15
Total	98.31	100.00

- (1) Långban, Sweden; corresponds to $(Pb_{0.90}Fe_{0.07})_{\Sigma=0.97}Fe_{0.97}(AsO_4)(OH)_{0.55}O_{0.12}$.
- (2) PbFe(AsO_4)(OH).

Mineral Group: Adelite group.

Occurrence: In a metamorphosed Fe–Mn orebody.

Association: Roméite, nadorite, finnemanite, calcite, barite.

Distribution: From Långban, Värmland, Sweden.

Name: To honor Dr. Olof Erik Gabrielson (1912–), mineralogist, Swedish Museum of Natural History, Stockholm, Sweden.

Type Material: Swedish Museum of Natural History, Stockholm, Sweden, NRMS 254857; National Museum of Natural History, Washington, D.C., USA, 120063, 162613.

References: (1) Moore, P.B. (1967) Gabrielsonite, PbFe(AsO₄)(OH), a new member of the descloizite-pyrobelonite group, from Långban. Arkiv. Mineral. Geol., 4, 401–405. (2) (1968) Amer. Mineral., 53, 1063–1064 (abs. ref. 1).