Crystal Data: Tetragonal. *Point Group*: $\bar{4}\,2m$. In sugary aggregates of irregular, rounded grains or prismatic crystals to ~50 μm

Physical Properties: Cleavage: None. *Tenacity*: Brittle. *Fracture*: Conchoidal. Hardness = ~4
D(meas.) = n.d. D(calc.) = 5.245 Nonfluorescent.

Optical Properties: Transparent. *Color*: Violet-red to red-orange. *Streak*: Pale pink.
Luster: Resinous to subadamantine.
Optical Class: Uniaxial (-). ω = 1.925(5) ε = 1.855(5) *Pleochroism*: *O* = beige, *E* = deep pink.
Absorption: *O* < *E*.

Cell Data: *Space Group*: $I\bar{4}\,2d$. *a* = 6.8046(8) *c* = 18.619(1) Z = 4

X-ray Powder Pattern: Johanngeorgenstadt, Erzgebirgskreis, Saxony, Germany.
2.752 (100), 1.678 (28), 3.008 (25), 1.706 (21), 3.274 (18), 1.446 (13), 2.330 (10)

Chemistry:

	(1)	(2)
Na_2O	0.08	
Ag_2O	0.06	
FeO	0.29	
NiO	40.38	49.37
CoO	7.26	
CuO	0.13	
Al_2O_3	0.15	
As_2O_5	51.03	50.63
Total	99.38	100.00

(1) Johanngeorgenstadt, Erzgebirgskreis, Saxony, Germany; electron microprobe and Raman spectroscopic analyses; corresponds to $(Ni^{2+}_{3.69}Co^{2+}_{0.66}Fe^{2+}_{0.03}Al_{0.02}Na_{0.02}Cu^{2+}_{0.01})_{\Sigma=4.43}As_{3.03}O_{12}$.
(2) $Ni^{2+}_{4.5}(AsO_4)_3$.

Polymorphism & Series: Dimorph of Johanngeorgenstadtite.

Mineral Group: Alluaudite supergroup.

Occurrence: Secondary, likely formed from the breakdown of primary nickeline under dry (low relative humidity) and oxidizing (high oxygen fugacity) conditions.

Association: Johanngeorgenstadtite, aerugite, bunsenite, quartz, rooseveltite, xanthiosite.

Distribution: From Johanngeorgenstadt, Erzgebirgskreis, Saxony, Germany.

Name: For the elements (excluding oxygen) in the mineral's composition: nickel (Ni) + arsenic (As).

Type Material: American Museum of Natural History, New York, New York, USA (17956) and Natural History Museum of Los Angeles County, Los Angeles, California, USA (74203).

References: (1) Kampf, A.R., B.P. Nash, J. Plášil, J.B. Smith, and M.N. Feinglos (2020) Niasite and johanngeorgenstadtite, $Ni^{2+}_{4.5}(AsO_4)_3$ dimorphs from Johanngeorgenstadt, Germany. Eur. J. Mineral., 32(3), 373-385.