Monimolite

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Crystal Data: Cubic. Point Group: $4/m \ \overline{3} \ 2/m$ (probable). As octahedra with $\{113\}$, or less commonly, cube dominant, with $\{111\}$ and $\{011\}$.

Physical Properties: Cleavage: Indistinct on $\{111\}$. Fracture: Small conchoidal to splintery. Hardness = 4.5-6 D(meas.) = 5.94-7.29 D(calc.) = n.d.

Optical Properties: Opaque, translucent on thin edges. *Color:* Yellow, gray-green, dark brown. *Streak:* Straw-yellow to cinnamon-brown. *Luster:* Greasy to adamantine. *Optical Class:* Isotropic; may show weak anisotropism. n = 2.06

Cell Data: Space Group: n.d. a = 10.47 Z = n.d.

X-ray Powder Pattern: n.d.

Chemistry:

	(1)	(2)
$\mathrm{Sb}_{2}\mathrm{O}_{5}$	40.51	38.18
FeO	5.38	5.57
MnO	0.41	1.16
PbO	42.74	55.33
MgO	0.56	
CaO	9.70	
${ m Na_2O}$	0.54	
Total	99.84	100.24

(1) Harstigen mine, Sweden. (2) Do.; corresponds to $(Pb_{2.12}Fe_{0.66}Mn_{0.14})_{\Sigma=2.92}Sb_2O_{7.92}$.

Occurrence: In calcite veins in an iron and manganese deposit.

Association: Tephroite, calcite.

Distribution: In the Harstigen mine, near Persberg, Värmland, Sweden.

Name: From the Greek for stable, as it is decomposed chemically only with great difficulty.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 1023. (2) Mason, B. and C.J. Vitaliano (1953) The mineralogy of the antimony oxides and antimonates. Mineral. Mag., 30, 100–112.