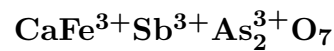


# Stenhuggarite



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**Crystal Data:** Tetragonal. *Point Group:*  $4/m\ 2/m\ 2/m$ . As equant pseudo-octahedral crystals, to 3 mm, showing {100}, {211}, and {301}.

**Physical Properties:** *Fracture:* Conchoidal. Hardness = > 4 D(meas.) = 4.63(5)  
D(calc.) = 4.56

**Optical Properties:** Transparent to translucent. *Color:* Bright reddish orange.

*Streak:* Bright yellow.

*Optical Class:* Uniaxial, nearly isotropic. *Absorption:* Strong.  $n = > 2.0$ , low birefringence.

**Cell Data:** *Space Group:*  $I4_1/amd$ .  $a = 16.144(3)$   $c = 10.706(2)$   $Z = 16$

**X-ray Powder Pattern:** Långban, Sweden.

2.985 (10), 1.8450 (4), 2.548 (3.5), 1.5440 (3.5), 5.92 (3), 1.1963 (2.5), 8.00 (2)

**Chemistry:**

	(1)
As	31.3
Sb	24.5
Fe	11.0
Ca	8.1
O	[25.1]
<hr/>	
Total	[100.0]

(1) Långban, Sweden; by electron microprobe, O by difference; corresponds to  $\text{Ca}_{1.00}\text{Fe}_{0.98}\text{Sb}_{1.00}\text{As}_{2.06}\text{O}_{7.76}$ .

**Occurrence:** Very rare in hematite ore from a metamorphosed Fe–Mn orebody.

**Association:** Hematite.

**Distribution:** From Långban, Värmland, Sweden.

**Name:** From the Swedish for *stonemason*, in honor of Dr. Brian Harold Mason (1917– ), U.S. National Museum, Washington, D.C., USA, for his contributions to the mineralogy of the Långban deposit.

**Type Material:** Swedish Museum of Natural History, Stockholm, Sweden; The Natural History Museum, London, England, 1969,117; National Museum of Natural History, Washington, D.C., USA, 120066.

**References:** (1) Moore, P.B. (1970) Stenhuggarite, a new mineral from Långban and new data on magnussonite. *Arkiv Mineral. Geol.*, 5(6), 55–62. (2) (1971) *Amer. Mineral.*, 56, 636–637 (abs. ref. 1). (3) Coda, A., A. Dal Negro, C. Sabelli, and V. Tazzoli (1977) The crystal structure of stenhuggarite. *Acta Cryst.*, 33, 1807–1811.