

**Crystal Data:** Monoclinic. *Point Group:* 2/*m*. Crystals commonly tabular on {001}, also with {100} prominent; pseudo-octahedral by development of {110} and {012} or {111}, to 5 cm. *Twinning:* On {001} and {100}; also on {034} to produce cruciform twins.

**Physical Properties:** *Cleavage:* Indistinct. *Fracture:* Subconchoidal. *Tenacity:* Brittle. Hardness = 5 D(meas.) = 3.34–3.38 D(calc.) = 3.451

**Optical Properties:** Opaque, translucent only in thin fragments. *Color:* Black to blackish brown. *Streak:* Grayish. *Luster:* Resinous to vitreous. *Optical Class:* Biaxial (+). *Pleochroism:* *X* = bluish green; *Y* = deep brownish red to brownish gray; *Z* = smoky gray or brownish yellow. *Orientation:* *Z* = *b*; *Y* ∧ *c* = −1°. *Dispersion:* *r* > *v*, distinct, with strong horizontal dispersion. *Absorption:* *Y* > *X* > *Z*.  $\alpha = 1.715$   $\beta = 1.725$   $\gamma = 1.738$  2*V*(meas.) = 80°

**Cell Data:** *Space Group:* *P*2<sub>1</sub>/*a*. *a* = 9.786(2) *b* = 7.621(2) *c* = 4.776(1)  $\beta$  = 90.61(2)° *Z* = 2

**X-ray Powder Pattern:** Store-Arø Island, Langesundsfjord, Norway. (ICDD 17-211). 3.10 (100), 2.52 (100), 2.83 (90), 2.97 (70), 2.18 (70), 2.23 (60), 1.86 (50)

**Chemistry:**

	(1)	(2)	(3)
SiO <sub>2</sub>	31.87	31.58	30.01
B <sub>2</sub> O <sub>3</sub>	[18.08]	[21.46]	18.62
Al <sub>2</sub> O <sub>3</sub>	1.50		
Fe <sub>2</sub> O <sub>3</sub>	2.15		
FeO	16.25	17.03	19.22
MnO		0.50	
MgO	0.52		
CaO	27.28	29.43	32.15
Na <sub>2</sub> O	1.50		
LOI	0.85		
Total	[100.00]	[100.00]	100.00

(1) Langesundsfjord, Norway; B<sub>2</sub>O<sub>3</sub> by difference. (2) Do.; by electron microprobe, B<sub>2</sub>O<sub>3</sub> by difference. (3) Ca<sub>2</sub>FeB<sub>2</sub>Si<sub>2</sub>O<sub>10</sub>.

**Mineral Group:** Gadolinite group.

**Occurrence:** In pegmatite.

**Association:** Allanite, meliphanite, titanite, zircon, aegirine, löllingite, astrophyllite, melanocerite, nordenskiöldine, wöhlerite, hiortdahlite, molybdenite.

**Distribution:** On Stokkø, Store-Arø, and Øvre-Arø Islands, in the Langesundsfjord, Norway.

**Name:** From the Greek for *to occur together*, in allusion to its association with meliphanite and “erdmannite” (allanite).

**References:** (1) Dana, E.S. (1892) Dana's system of mineralogy, (6th edition), 505–507. (2) Miyawaki, R., I. Nakai, and K. Nagashima (1985) Structure of homilite, Ca<sub>2.00</sub>(Fe<sub>0.90</sub>Mn<sub>0.03</sub>)B<sub>2.00</sub>Si<sub>2.00</sub>O<sub>9.86</sub>(OH)<sub>0.14</sub>. Acta Cryst., C41, 13–15.