Crystal Data: Hexagonal, pseudocubic. Point Group: $\frac{3}{2}$ 2/m. As simple pseudo-octahedral crystals, to 5 mm. Twinning: Observed, with four rhombohedral individuals each ideally oriented | to one of the pseudocubic 3-fold axes.

Physical Properties: Hardness = n.d. D(meas.) = 2.95-2.96 D(calc.) = [3.02]

Optical Properties: Semitransparent. Color: Colorless. Luster: Vitreous.

Optical Class: Uniaxial, but typically sensibly isotropic; sections may separate into four fields with weak birefringence in the diagonal position. n = 1.649-1.653

Cell Data: Space Group: $R\overline{3}m$. a = 10.439c = 51.303

X-ray Powder Pattern: Broadford area, Isle of Skye, Scotland. 2.61 (vs), 5.22 (s), 2.13 (s), 1.84 (s), 1.51 (s), 3.39 (m), 3.01 (m)

		(-), (-), 0:0- (,
Chemistry:		(1)	(2)	(3)
	SiO_2	14.17	16.82	16.37
	$\mathrm{B_2O_3}$	7.77	7.0	7.11
	$\overline{\text{Al}}_2\overline{\text{O}}_3$	2.84	3.13	3.47
	Ce_2O_3		0.8	
	$\mathrm{Fe_2O_3}$	0.85	1.78	
	$\overline{\text{FeO}}$	0.46		
	${ m MnO}$	0.02	0.13	
	$_{ m MgO}$	11.15	10.01	10.98
	CaO	46.23	44.13	45.85
	SrO		0.2	
	\mathbf{F}		0.15	
	Cl	1.36	0.06	
	$\mathrm{H_2O^+}$	0.81	1.25	1.23
	$\mathrm{H_2^{-}O^{-}}$	0.11		
	$ar{\mathrm{CO}_2}$	14.94	15.07	14.99
	$-O = (F, Cl)_2$	0.31	0.07	
	Total	100.40	100.46	100.00

(1) Camas Malag, Isle of Skye, Scotland. (2) Alban Hills, Italy; by electron microprobe, spectrophotometry, elemental analyzer, and mass spectrometer. (3) Ca₂₄Mg₈Al₂ $(SiO_4)_8(BO_3)_6(CO_3)_{10} \cdot 2H_2O$.

Occurrence: In skarns in dolomitic limestones at the contact with granite (Camas Malag, Scotland); in volcanic ejecta (Alban Hills, Italy).

Association: Calcite, monticellite, diopside, magnetite, vesuvianite, cuspidine, phlogopite.

Distribution: At Camas Malag, near Broadford, Isle of Skye, Scotland. On the Chersky Ridge, Tas-haiatah, northeastern Siberia, Russia. From the Alban Hills, Lazio, Italy. Large crystals at Nordmark, Sweden.

Name: For Alfred Harker (1859–1939), British petrologist, Cambridge University, Cambridge, England.

Type Material: n.d.

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