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Crystal Data: Monoclinic. *Point Group:* 2/m. As subhedral crystals, to 0.3 mm; as fibrous and felted radiating aggregates of thin laths; as irregularly rounded grains, massive. *Twinning:* Simple twins common, "similar to a type exhibited by allanite."

Physical Properties: Hardness = n.d. D(meas.) = 3.9 D(calc.) = [3.86]

Optical Properties: Translucent. *Color*: Brown; very light brown with a pinkish tinge in thin section. *Luster*: Vitreous.

Optical Class: Biaxial (+). $\alpha = 1.715$ $\beta = 1.718$ $\gamma = 1.733$ 2V(meas.) = n.d.

Cell Data: Space Group: $P2_1/m$. a = 8.934(18) b = 5.721(7) c = 10.176(22) $\beta = 114.31(12)^{\circ}$ Z = 2

X-ray Powder Pattern: Östanmossa mine, Sweden. 2.915 (100), 2.709 (70), 2.852 (30), 9.29 (20), 3.52 (20), 2.150 (20), 3.26 (15)

Chemistry:

	(1)
SiO_2	32.4
$\mathrm{Al_2O_3}$	8.9
$\mathrm{La_2O_3}$	6.0
$\mathrm{Ce_2O_3}$	13.2
Pr_2O_3	2.6
$\mathrm{Nd_2O_3}$	6.0
$\rm Sm_2O_3$	2.4
$\mathrm{Gd_2O_3}$	2.1
FeO	3.3
$_{\rm MgO}$	13.1
CaO	9.2
F	3.0
H_2O	2.02
$-O = F_2$	1.3
Total	102.9

(1) Östanmossa mine, Sweden; by electron microprobe, H_2O from Geijer (1927); corresponds to $(Ca_{0.91}Ce_{0.45}La_{0.20}Nd_{0.20}Pr_{0.09}Sm_{0.08}Gd_{0.06})_{\Sigma=1.99}(Mg_{1.81}Fe_{0.25})_{\Sigma=2.06}Al_{0.97}Si_3O_{10.99}$ $[(OH)_{1.25}F_{0.88}]_{\Sigma=1.13}$.

Mineral Group: Epidote group.

Occurrence: In tactite replacement deposits developed during metamorphism of dolomitic limestone.

Association: Tremolite, norbergite, magnetite, dolomite, calcite.

Distribution: In the Östanmossa mine, Norberg, Västmanland, Sweden.

Name: Honors Professor Wayne A. Dollase, University of California, Los Angeles, California, USA, for his crystal chemical research on minerals of the epidote group, and its *cerium* content.

Type Material: National Museum of Natural History, Washington, D.C., USA, R6505.

References: (1) Peacor, D.R. and P.J. Dunn (1988) Dollaseite-(Ce) (magnesium orthite redefined): structure refinement and implications for F + M²⁺ substitutions in epidote-group minerals. Amer. Mineral., 73, 838–842. (2) Geijer, P. (1927) Some mineral associations from the Norberg district. Sveriges Geologiska Undersökning, 20, 1–32.

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