

Crystal Data: Orthorhombic. *Point Group:* $2/m\ 2/m\ 2/m$. As irregular grains to 0.7 mm.
Twinning: On {210} and {230}.

Physical Properties: *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Irregular. Hardness = n.d.
 $D(\text{meas.}) = 3.68(2)$ $D(\text{calc.}) = 3.682$

Optical Properties: Transparent. *Color:* Pale yellowish green. *Streak:* White. *Luster:* Vitreous.
Optical Class: Biaxial (-). $\alpha = 1.6226(5)$ $\beta = 1.6852(10)$ $\gamma = 1.6982(2)$ $2V(\text{meas.}) = 47(1)^\circ$
 $2V(\text{calc.}) = 48^\circ$ *Pleochroism:* Pale yellowish green. *Orientation:* $X = c$, $Y = a$, $Z = b$.
Absorption: $X > Z$ or Y .

Cell Data: Space Group: $Pnma$. $a = 18.4662(7)$ $b = 16.0106(5)$ $c = 7.0274(2)$ $Z = 4$

X-ray Powder Pattern: Ilímaussaq alkaline complex, South Greenland.
 6.57 (100), 2.80 (86), 2.67 (54), 4.62 (40), 3.50 (40), 3.86 (38), 4.14 (28)

Chemistry:	(1)
P_2O_5	37.17
SiO_2	0.15
CaO	0.90
Na_2O	20.06
La_2O_3	16.44
CeO_2	[20.23]
Pr_2O_3	1.40
Nd_2O_3	3.47
Sm_2O_3	0.24
Dy_2O_3	0.06
Y_2O_3	0.06
Total	100.18

(1) Ilímaussaq alkaline complex, South Greenland; average of 63 electron microprobe analyses, Ce^{4+} for charge balance; corresponds to $\text{Na}_{7.44}\text{Ca}_{0.19}\text{Ce}_{1.35}\text{La}_{1.16}\text{Nd}_{0.24}\text{Pr}_{0.10}\text{Sm}_{0.02}\text{Y}_{0.01}(\text{P}_{6.02}\text{Si}_{0.03})\text{O}_{24}$.

Occurrence: An accessory constituent (late magmatic) of hyperagpaitic arfvedsonite-lujavrite in an alkaline igneous complex.

Association: Arfvedsonite, albite, microcline, nepheline, sodalite, aegirine, analcime.

Distribution: From the Ilímaussaq alkaline complex, South Greenland.

Name: For the base camp area, Dymæs (animal headland), north of Narsaq, Kujalleq Kommune, South Greenland, with the suffix for the dominant REE.

Type Material: Natural History Museum, University of Copenhagen, Denmark (2014.53).

References: (1) Rønsbo, J.G., T. Balić-Žunić, and O.V. Petersen (2017) Dymaessite-(La) a new hyperagpaitic mineral from the Ilímaussaq alkaline complex, South Greenland. *Mineral. Mag.*, 81(1), 103-111. (2) Balić-Žunić, T. (2017) The crystal structure of the new mineral dymaessite-(La), $\text{Na}_8\text{Ce}^{\text{IV}}\text{REE}_2(\text{PO}_4)_6$. *Mineral. Mag.*, 81(1), 199-208. (3) (2017) *Amer. Mineral.*, 102, 1144 (abs. refs. 1 & 2).