

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(meas.) = 3.68(2) D(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 ₂ O ₅	37.17
SiO ₂	0.15
CaO	0.90
Na ₂ O	20.06
La ₂ O ₃	16.44
CeO ₂	[20.23]
Pr ₂ O ₃	1.40
Nd ₂ O ₃	3.47
Sm ₂ O ₃	0.24
Dy ₂ O ₃	0.06
Y ₂ O ₃	0.06
Total	100.18

(1) Ilímaussaq alkaline complex, South Greenland; average of 63 electron microprobe analyses, Ce⁴⁺ for charge balance; corresponds to Na_{7.44}Ca_{0.19}Ce_{1.35}La_{1.16}Nd_{0.24}Pr_{0.10}Sm_{0.02}Y_{0.01}(P_{6.02}Si_{0.03})O₂₄.

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, Dyrnæs (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) Dyrnaesite-(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 dyrnaesite-(La), Na₈Ce^{IV}REE₂(PO₄)₆. *Mineral. Mag.*, 81(1), 199-208. (3) (2017) *Amer. Mineral.*, 102, 1144 (abs. refs. 1 & 2).