Tundrite-(Nd) \( \text{Na}_3(\text{Nd,La})_4(\text{Ti,Nb})_2(\text{SiO}_4)_2(\text{CO}_3)_3\text{O}_4(\text{OH}) \cdot 2\text{H}_2\text{O} \)

Crystal Data: [Triclinic] [by analogy to tundrite-(Ce)]. Point Group: [1]. As spherulitic masses up to 5 mm.


Optical Properties: Semitransparent. Color: [Brownish to greenish yellow.]
Optical Class: Biaxial (+). \( \alpha = 1.731 \quad \beta = > 1.80 \quad \gamma = \text{n.d.} \quad 2V(\text{meas.}) = \text{n.d.} \)


X-ray Powder Pattern: n.d.

Chemistry:

\[
\begin{array}{ll}
\text{SiO}_2 & 10.98 \\
\text{TiO}_2 & 11.21 \\
\text{RE}_2\text{O}_3 & 48.78 \\
\text{Fe}_2\text{O}_3 & 1.00 \\
\text{Nb}_2\text{O}_5 & 6.09 \\
\text{CaO} & 0.97 \\
\text{Na}_2\text{O} & [7.08] \\
\text{H}_2\text{O}^+ & 13.65 \\
\text{H}_2\text{O}^- & 0.24 \\
\text{Total} & [100.00] \\
\end{array}
\]

(1) Ilímaussaq intrusion, Greenland; Na\textsubscript{2}O by difference, CO\textsubscript{2} presumably driven off with H\textsubscript{2}O\textsuperscript{+}; relative proportions of RE = La 24%, Ce 7.5%, Pr 12%, Nd 45%, Sm 6.6%, Eu 0.1%, Gd 4%, Tb 0.3%, Dy 0.5%.

Occurrence: In pegmatite veins associated with layered nepheline syenite.

Association: Microcline, arfvedsonite.

Distribution: In the Ilímaussaq intrusion, at Kringlerne, Kangerdluarssuk Plateau, southern Greenland.

Name: For its relation to tundrite-(Ce), and its neodymium content.

Type Material: n.d.