

Crystal Data: Monoclinic. *Point Group:* 2/m. As prismatic crystals to 0.2 mm or as grains to 0.5 mm.

Physical Properties: *Cleavage:* None. *Fracture:* n.d. *Tenacity:* n.d. *Hardness:* = n.d. D(meas.) = n.d. D(calc.) = 3.161

Optical Properties: Transparent. *Color:* Colorless to pale brown. *Streak:* n.d. *Luster:* n.d. *Optical Class:* Biaxial (+). $\alpha = 1.612(1)$ $\beta = 1.617(1)$ $\gamma = 1.630(1)$ $2V(\text{meas.}) = 63(1)^\circ$ $2V(\text{calc.}) = 64^\circ$ *Orientation:* $Z = b$; $X \wedge c = 15^\circ$ in obtuse β . *Dispersion:* Moderate, $r < v$.

Cell Data: *Space Group:* $P2_1/a$. $a = 15.5026(2)$ $b = 7.0233(1)$ $c = 6.9769(1)$ $\beta = 95.149(1)^\circ$ $Z = 4$

X-ray Powder Pattern: Merlot Claim, North Red Wine Pluton, Labrador, Canada. 2.905 (100), 3.094 (30), 1.761 (29), 3.272 (27), 2.161 (27), 1.702 (27), 1.546 (19)

Chemistry:	(1)	(2)		(1)	(2)
Na ₂ O	12.82	13.35	Gd ₂ O ₃	0.95	
CaO	11.14	16.16	Tb ₂ O ₃	0.24	
MnO	2.92		Dy ₂ O ₃	1.81	
FeO	1.33		Ho ₂ O ₃	0.41	
SiO ₂	48.46	51.79	Er ₂ O ₃	1.15	
Y ₂ O ₃	11.61	16.16	Tm ₂ O ₃	0.14	
La ₂ O ₃	0.03		Yb ₂ O ₃	0.76	
Ce ₂ O ₃	0.19		Lu ₂ O ₃	0.07	
Pr ₂ O ₃	0.05		H ₂ O	[2.43]	2.59
Nd ₂ O ₃	0.35		Total	97.23	100.00
Sm ₂ O ₃	0.38				

(1) Merlot Claim, Labrador, Canada; average of 14 electron microprobe analyses supplemented by IR spectroscopy, H₂O calculated from stoichiometry; corresponding to Na_{1.54}(Ca_{0.74}Mn_{0.15}Fe_{0.07})_{Σ=0.96}(Y_{0.38}Nd_{0.01}Sm_{0.01}Gd_{0.02}Tb_{0.01}Dy_{0.04}Ho_{0.01}Er_{0.02}Yb_{0.01})_{Σ=0.51}Si_{3.00}O₉H. (2) Na_{1.5}CaY_{0.5}Si₃O₉H.

Mineral Group: Pyroxenoid of the pectolite-serandite group.

Occurrence: Poikilitic in amphibole and pyroxene in metamorphosed eudialyte-syenite.

Association: Y-bearing pectolite, arfvedsonite, jadeitic aegirine, steenstrupine, britholite.

Distribution: From the Merlot Claim, North Red Wine Pluton, Labrador, Canada.

Name: Honors Professor John Barry Dawson (1932-2013), a British petrologist, for his ground-breaking studies of silica-undersaturated rocks.

Type Material: Natural History Museum, London, England (BM-2014-50), at the Natural History Museum of Los Angeles County, Los Angeles, California, USA (64171), and the Robert B. Ferguson Museum of Mineralogy, University of Manitoba, Winnipeg, Canada (M7889).

References: (1) Mitchell, R.H., M.D. Welch, A.R. Kampf, A.K. Chakhmouradian and J. Spratt (2015) Barrydawsonite-(Y), Na_{1.5}CaY_{0.5}Si₃O₉H: a new pyroxenoid of the pectolite-serandite group. *Mineral. Mag.*, 79(3), 671-686. (2) (2016) *Amer. Mineral.*, 101, 1013 (abs. ref. 1).