Crystal Data: Triclinic. *Point Group*: 1. Crystals are acicular and elongated along [001] to 0.5 mm, and exhibiting dominant {100} with minor {010} and {001}; also as nest-like aggregates. Weak pale green to pale yellow fluorescence under medium-wave radiation.

Physical Properties: Cleavage: None.Fracture: Uneven.Tenacity: n.d.Hardness = n.d.D(meas.) = n.d.D(calc.) = 3.106

Optical Properties: Transparent to translucent. *Color*: Colorless to pale pink. *Streak*: White. *Luster*: Vitreous.

Optical Class: Biaxial (n.d.). Positive elongation. n = 1.636(2) to 1.656(2) *Pleochroism*: None.

Cell Data: Space Group: $P\overline{l}$. a = 6.837(1) b = 7.575(2) c = 8.841(2) $\alpha = 99.91(3)^{\circ}$ $\beta = 102.19^{\circ}$ $\gamma = 102.78(3)^{\circ}$ Z = 2

X-ray Powder Pattern: Poudrette quarry, Mont Saint-Hilaire, Québec, Canada. 8.454 (100), 3.331 (83), 2.823 (80), 2.859 (52), 7.234 (39), 3.081 (38), 2.169 (25)

Chemistry:		(1)	(2)
	Na ₂ O	7.51	7.63
	CaO	0.17	
	MnO	31.02	34.95
	FeO	0.86	
	SiO_2	46.34	44.40
	S	0.39	
	B_2O_3	[8.73]	8.58
	<u>H2</u> O	[4.52]	4.44
	Total	99.53	100.00

(1) Poudrette quarry, Mont Saint-Hilaire, Québec, Canada; average of 14 electron microprobe analyses, B and H₂O calculated and their presence confirmed by crystal structure refinement and Raman spectroscopy; corresponding to $Na_{0.97}(Mn_{1.75}Fe_{0.05}Ca_{0.01})_{\Sigma=1.81}(Si_{3.07}S_{0.02})_{\Sigma=3.09}BO_9(OH)_2$. (2) $NaMn_2[Si_3BO_9](OH)_2$.

Occurrence: Precipitated in vugs in altered sodalite syenite by late-stage aqueous fluids, presumably highly alkaline due to the presence of natrite.

Association: Microcline, analcime, nepheline, aegirine, pyrrhotite, sodalite, eudialyte-group minerals, natron, catapleiite.

Distribution: From the Poudrette quarry, Mont Saint-Hilaire, La Vallée-du-Richelieu, Montérégie (formerly Rouville County), Québec, Canada.

Name: Honors Anthony Hosford Steede (b. 1940) in recognition of his contributions to the understanding of the mineralogy of Mont Saint-Hilaire.

Type Material: Department of Natural History, Royal Ontario Museum, Toronto, Ontario, Canada (M56489).

References: (1) Haring, M.M.M. and A.M. McDonald (2014) Steedeite, NaMn₂[Si₃BO₉](OH)₂: Characterization, crystal-structure determination, and origin. Can. Mineral., 52, 47-60. (2) (2014) Amer. Mineral., 99, 2442-2443 (abs. ref. 1).