

Crystal Data: Hexagonal. *Point Group:* $\bar{3}$. As granular to irregular inclusions, to 100 μm .

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* n.d. *Hardness* = n.d.
D(meas.) = n.d. *D(calc.)* = 4.06

Optical Properties: Transparent. *Color:* Colorless. *Streak:* White. *Luster:* n.d.
Pleochroism: Very weak.
Optical Class: n.d.

Cell Data: *Space Group:* $P\bar{3}$. $a = 5.3642(10)$ $c = 7.039(2)$ $Z = 1$

X-ray Powder Pattern: Tanohata mine, Iwate Prefecture, Japan.
 2.806 (100), 1.9388 (91), 2.683 (74), 4.646 (67), 3.877 (48), 2.506 (46), 7.0315 (39)

Chemistry:	(1)	(2)
Na ₂ O	14.66	14.47
BaO	35.52	35.81
SrO	2.43	
MnO	13.26	16.57
MgO	1.55	
P ₂ O ₅	32.65	33.15
Total	100.07	100.00

(1) Tanohata mine, Japan; average of 10 electron microprobe analyses, PO₄ confirmed by Raman spectroscopy; corresponding to Na_{2.026}(Ba_{0.993}Sr_{0.101})_{Σ=1.094}(Mn_{0.801}Mg_{0.164})_{Σ=0.965}P_{1.971}O₈.

(2) Na₂BaMn(PO₄)₂.

Occurrence: In a Ba- and Sr-bearing manganese deposit.

Association: Sérandite.

Distribution: From the No. 3 (Matsumaezawa) deposit, Tanohata mine, Tanohata Village, Iwate Prefecture, Japan.

Name: For the Japanese Prefecture (*Iwate*) that contains the locality that produced the first specimens.

Type Material: National Museum of Nature and Science, Tokyo, Japan (NSM-M43779).

References: (1) Nishio-Hamane, D., T. Minakawa, and H. Okada (2014) Iwateite, Na₂BaMn(PO₄)₂, a new mineral from the Tanohata mine, Iwate Prefecture, Japan. *Journal of Mineralogical and Petrological Sciences*, 109(1), 34-37. (2) (2015) *Amer. Mineral.*, 100, 335-336 (abs. ref. 1).