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Crystal Data: Triclinic, pseudohexagonal. *Point Group:* 1 or $\overline{1}$. Platy crystals, to 0.5 mm, in very fine-grained tangled radial aggregates.

Physical Properties: Cleavage: Imperfect on $\{001\}$. Tenacity: Brittle. Hardness = 4 D(meas.) = 2.6-2.8 D(calc.) = 2.66

Optical Properties: Translucent to nearly opaque; transparent to translucent in thin section. Color: Very dark brown to black. Streak: Light brown. Luster: Vitreous to slightly resinous. Optical Class: Biaxial (-). Pleochroism: Distinct; X = pale yellow; Y = Z = deep brown. Orientation: $X \wedge (001) \simeq 6^{\circ}$. $\alpha = 1.545(5)$ $\beta = 1.583(3)$ $\gamma = 1.583(3)$ $2V(\text{meas.}) = 10(3)^{\circ}$ $2V(\text{calc.}) = 0^{\circ}$

Cell Data: Space Group: P1 or $P\overline{1}$; orthohexagonal cell is a = 5.521(4) b = 9.560(6) c = 36.57(5) Z = 3/8

X-ray Powder Pattern: Franklin, New Jersey, USA. 12.3 (100), 2.583 (40), 2.737 (30), 2.362 (30), 1.594 (30), 1.580 (30), 4.79 (20)

Chemistry:

	(1)
SiO_2	44.0
$\mathrm{Al_2O_3}$	3.6
Fe_2O_3	7.8
MnO	22.3
MgO	6.4
ZnO	5.9
Na_2O	0.4
K_2O	1.5
H_2^-O	[8.1]
Total	[100.0]

(1) Franklin, New Jersey, USA.; by electron microprobe, H_2O by difference, corresponding to $(K_{2.6}Na_{1.1})_{\Sigma=3.7}(Mn_{26.1}Mg_{13.2}Zn_{6.0}Fe_{2.7}^{3+})_{\Sigma=48.0}(Si_{60.8}Al_{5.8}Fe_{5.4}^{3+})_{\Sigma=72.0}[O_{163.2}(OH)_{52.8}]_{\Sigma=216.0} \bullet nH_2O$.

Polymorphism & Series: Forms a series with lennilenapeite.

Occurrence: In a veinlet crosscutting a breccia of calcite, aegirine, and serpentine in a metamorphosed stratiform zinc deposit.

Association: Friedelite, nelenite, rhodonite, tirodite.

Distribution: At Franklin, Sussex Co., New Jersey, USA.

Name: From the locality Franklin, New Jersey, USA, and the Greek for *friend*, for the association of elements characteristic of Franklin.

Type Material: National Museum of Natural History, Washington, D.C., USA, 167390.

References: (1) Dunn, P.J., D.R. Peacor, and S.-C. Su (1992) Franklinphilite, the manganese analog of stilpnomelane, from Franklin, New Jersey. Mineral. Record, 23, 465–468. (2) (1993) Amer. Mineral., 78, 672–673 (abs. ref. 1).