\odot 2001 Mineral Data Publishing, version 1.2

Crystal Data: Monoclinic. *Point Group:* 2/m, (probable). As grains up to 0.1 mm. *Twinning:* Polysynthetic on $\{100\}$, common.

Physical Properties: Cleavage: Perfect on $\{110\}$, $(110) \land (1\overline{10}) \sim 88^{\circ}$. Hardness = 6 D(meas.) = 3.66 D(calc.) = 3.60

Optical Properties: Semitransparent. Color: Light pinkish brown; colorless in thin section. Streak: White. Luster: Vitreous. Optical Class: Biaxial (+). Orientation: Y = b; $Z \wedge c = 42^{\circ}$. $\alpha = 1.715(2)$ $\beta = 1.717(2)$ $\gamma = 1.728(2)$ 2V(meas.) = 40° - 42°

Cell Data: Space Group: $P2_1/c$ (probable). a = 9.739 b = 8.939 c = 5.260 $\beta = 108.56^{\circ}$ Z = 4

X-ray Powder Pattern: Tatehira, Japan. 3.211 (100), 3.021 (90), 2.910 (90), 2.921 (80), 2.493 (40), 1.627 (40), 2.573 (30)

Chemistry:

	(1)
SiO_2	50.20
Al_2O_3	0.04
Fe_2O_3	0.39
FeO	2.64
MnO	31.19
MgO	15.08
CaO	[0.61]
Na_2O	0.03
K_2O	0.03
Total	[100.21]

(1) Tatehira, Japan; by electron microprobe, average of three analyses; Fe_2O_3 , FeO, Na₂O, and K₂O by wet chemical analysis; original CaO 0.57% and original total given as 100.17%; corresponds to $(Mn_{1.04}^{2+}Mg_{0.88}Fe_{0.09}^{2+}Ca_{0.02}Fe_{0.01}^{3+})_{\Sigma=2.04}Si_{1.97}O_6$.

Polymorphism & Series: Dimorphous with donpeacorite.

Mineral Group: Pyroxene group.

Occurrence: In a seam cutting a pyroxmangite-cummingtonite metamorphic rock.

Association: Spessartine, manganoan cummingtonite, pyroxmangite.

Distribution: From near Tatehira, Oshima Peninsula, Hokkaido, Japan.

Name: To honor Dr. Hiroshi Kano, Professor of Petrology, Akita University, Akita, Japan.

Type Material: Shimane University, Matuse; National Science Museum, Tokyo, Japan, M21331.

References: (1) Kobayashi, H. (1977) Kanoite, $(Mn^{2+}, Mg)_2[Si_2O_6]$, a new clinopyroxene in the metamorphic rock from Tatehira, Oshima Peninsula, Hokkaido, Japan. J. Geol. Soc. Japan, 83, 537–542. (2) (1978) Amer. Mineral., 63, 598 (abs. ref. 1).