(c)2001 Mineral Data Publishing, version 1.2

Crystal Data: Tetragonal. Point Group: 4/m. As minute aggregates replacing analome crystals. Twinning: Common, repeated on $\{110\}$.

Physical Properties: Hardness = n.d. D(meas.) = 2.29(5) D(calc.) = 2.24

Optical Properties: Translucent. Color: White. Luster: Resinous to vitreous.

Optical Class: Uniaxial (+). n = 1.518(2)

 ${\bf Cell \ Data:} \quad Space \ Group: \ I4_1/a. \ \ a = 13.214(1) \ \ \ c = 13.713(2) \ \ \ Z = 16$

X-ray Powder Pattern: Fujioka, Japan.

5.43 (100), 3.30 (80), 5.53 (50), 3.43 (40), 2.955 (20), 2.859(20), 2.839 (10)

Chemistry:

	(1)
SiO_2	62.67
Al_2O_3	22.43
K_2O	4.43
$(NH_4)_2O$	8.70
$\mathrm{H_2O}$	1.77
Total	[100.00]

(1) Fujioka, Japan; by electron microprobe; after subtraction of elements attributed to dolomite and analcime contamination, recalculated to 100.00%; corresponds to $[(NH_4)_{0.68}K_{0.19}]_{\Sigma=0.87}$ $Al_{0.89}Si_{2.12}O_6$.

Occurrence: In veinlets, fractures, and cavities in hydrothermally altered crystalline schist, as powdery pseudomorphous replacements of analcime crystals.

Association: Analcime, dolomite.

Distribution: In the Tatarazawa quarry, Fujioka, Gumma Prefecture, Japan.

Name: For ammonia in its chemical composition and its relation to leucite.

Type Material: National Science Museum, Tokyo, Japan; National Museum of Natural History, Washington, D.C., USA, 165991.

References: (1) Hori, H., K. Nagashima, M. Yamada, R. Miyawaki, and T. Marubashi (1986) Ammonioleucite, a new mineral from Tatarazawa, Fujioka, Japan. Amer. Mineral., 71, 1022–1027.