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

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

 $\begin{tabular}{ll} \textbf{Optical Properties:} & Translucent. & Color: White. & Luster: Resinous to vitreous. \\ \end{tabular}$ 

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.