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Crystal Data: Cubic. Point Group: $2/m \overline{3}$. As octahedral crystals, to 1 mm.

Physical Properties: Fracture: Conchoidal. Hardness = ~ 3 D(meas.) = 1.64 (synthetic). D(calc.) = 1.670 (synthetic). Soluble in H₂O.

Optical Properties: Transparent. Color: Colorless; colorless in transmitted light.

Luster: Vitreous.

Optical Class: Isotropic. n = 1.4388

Cell Data: Space Group: Pa3. a = 12.214(1) Z = 4

X-ray Powder Pattern: Synthetic.

4.314(100), 2.962(35), 3.526(14), 7.05(7), 1.9077(7), 3.263(6), 2.493(6)

Chemistry: (1) There are apparently no analyses of natural material.

Occurrence: A sublimate on burning coal heaps (Bátonyterenye, Hungary); a recent precipitate (Recsk mine, Hungary).

Association: Blödite, kröhnkite (Recsk mine, Hungary).

Distribution: Earlier reported localities require confirmation by modern methods. Recently identified in Hungary, from the Recsk copper mine, Mátra Mountains, and at Bátonyterenye.

Name: For its sodium content, and as a hydrated aluminum sulfate.

Type Material: n.d.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 474 [soda alum]. (2) Szakáll, S., Ed. (2002) Minerals of the Carpathians. Granit, Prague, 278. (3) Cromer, D.T., M.I. Kay, and A.C. Larson (1967) Refinement of the alum structures. II. X-ray and neutron diffraction of NaAl(SO₄)₂.12H₂O, γ alum. Acta Cryst., 22, 182–187. (4) (1978) NBS Mono. 25, 15.