Sodium alum \( \text{NaAl(SO}_4\text{)}_2 \cdot 12\text{H}_2\text{O} \)

(c) 2001-2005 Mineral Data Publishing, version 1

Crystal Data: Cubic. \( \text{Point Group: } 2/m \). As octahedral crystals, to 1 mm.

Physical Properties: Fracture: Conchoidal. Hardness \( \sim 3 \). \( \text{D(meas.)} = 1.64 \) (synthetic). \( \text{D(calc.)} = 1.670 \) (synthetic). Soluble in \( \text{H}_2\text{O} \).


Cell Data: \( \text{Space Group: } Pa3. \ a = 12.214(1) \quad Z = 4 \)

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.