

Aluminium potassium sulfate dodecahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur**Identification**

$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
M = 474,39 g/mol
CAS [7784-24-9]
EC number: 233-141-3
Taric code: 2833 30 00

Synonyms

Potassium aluminium sulfate, Alum potassium, Potassium alum

Applications

analytical chemistry, manufacture of dyes, manufacturing of lacquers, in explosive compositions.

Specifications

assay (complexometric).....	99,0 - 100,5 %	ammonium (NH_4).....	max. 0,005 %
identity (IR-spectrum).....	passes test	cadmium (Cd).....	max. 5 ppm
appearance of solution.....	clear and colourless	copper (Cu).....	max. 5 ppm
insoluble in water.....	max. 0,005 %	heavy metals (as Pb).....	max. 0,001 %
pH (10 %, H_2O).....	3,0 - 3,5	iron (Fe).....	max. 5 ppm
chlorides (Cl).....	max. 5 ppm	lead (Pb).....	max. 5 ppm
		sodium (Na).....	max. 0,005 %

Physical data

- Appearance: crystals or granular powder, colourless or white
- Spec. Density: 1,75 g/cm³
- Bulk density: ~ 900 kg/m³
- Solub. in water: (20 °C): 139 g/l
- Melting point: 90 °C
- pH(50 g/l H_2O , 20 °C) ~ 3,0 - 3,5

Transport/storage

- 10°C - 30°C