

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

$KAl(SO_4)_2 \cdot 12H_2O$   
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 <sub>4</sub> ).....	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 <sub>2</sub> O).....	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/cm<sup>3</sup>
- Bulk density: ~ 900 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 139 g/l
- Melting point: 90 °C
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 3,0 - 3,5

**Transport/storage**

- 10°C - 30°C