

**Aluminium potassium sulfate dodecahydrate, Pharmpur®, Ph Eur,  
BP, USP****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, in pharma industry.

**Specifications**

assay (complexometric).....	99,0 - 100,5 %	Identification C (USP).....	passes test
assay (complexometric, referred to dried basis).....	99,0 - 100,5 %	appearance of solution.....	clear and colourless
Identification sulfates.....	passes test	pH (10 %, H <sub>2</sub> O).....	3,0 - 3,5
Identification aluminium.....	passes test	ammonium (NH <sub>4</sub> ).....	max. 0,2 %
Identification potassium.....	passes test	iron (Fe).....	max. 100 ppm
Identification A (USP).....	passes test	iron (Fe).....	passes test
Identification B (USP).....	passes test	loss on drying .....	43,0 % - 46,0 %

**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