

**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