



PRODUCT CODE: 141103

Aluminium Potassium Sulfate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

$\text{AlK}_2\text{O}_8\text{S}_2 \cdot 12\text{H}_2\text{O}$

$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$

M.= 474,39

CAS [7784-24-9]

EINECS 233-141-3

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SYNONYMS: Potassium Alum, Potassium Aluminium Sulphate

PHYSICAL DATA: Small crystals, White, Soluble in water 110 g/l at 20 °C D 1,727 • M.P.: 92 °C • pH3,0 - 3,5 •

BIBLIOGRAPHY: Merck Index **12**, 373 13, 359 Römp **8** , **100** • ACS **XI** • BP.**2021** • USP **42** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **11 12** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: RTECS: WS 5690000 • TDLO oral rat 1.120 mg/kg • VLA-ED (Al) 2 mg/m3

SPECIFICATIONS:

Assay (Compl.)	99,0-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
pH of 10% solution	3,0-3,5

Maximum limit of impurities

Appearance of solution	passes test
Loss on drying at 400°C	43,0-46,0 %
Chloride (Cl)	0,01%
Ammonium (NH ₄)	0,01%
Residual solvents (Ph.Eur/USP)	passes test
Fe	0,002 %

Elemental impurities (ICH Q3D):

Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	1,5 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm
Class 2B	
Tl	5 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm
Class 3	
Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm