



PRODUCT CODE: 141404

Magnesium Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

MgO₄S.7H₂O

MgSO₄.7H₂O

M.= 246,48

CAS [10034-99-8]

EINECS 231-298-2

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SYNONYMS: Epsom Salt

PHYSICAL DATA: Small crystals, White, Soluble in water 710 g/l at 20 °C Thermal decom. above 150 °C • D 1,67 • pH5,5 - 6,5 •

BIBLIOGRAPHY: Merck Index **12**, 5.731 13, 5.715 Römp **8**, **2457** • Fieser 1634 **5421** • ACS **XI** • BP.**2021** • USP **43** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **12 13** •

HAZARDOUS: RTECS: OM 4500000 • LD L0 oral mus 5.000 mg/kg •

SPECIFICATIONS:

Assay (Compl.) (calc. a.a.s)	99,0-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
pH of 5% solution	5,0-9,2

Maximum limit of impurities

Appearance of solution	passes test
Acidity or alkalinity	passes test
Insoluble matter in H ₂ O	0,025 %
Loss on drying at 450°C	48,0-52,0 %
Chloride (Cl)	0,014%
Ammonium (NH ₄)	0,005%
Phosphate (PO ₄)	0,002 %
Residual solvents (Ph.Eur/USP)	passes test

Fe	0,002 %
Se	0,0015 %

Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
Pb	50 ppm
As	1,5 ppm
Hg	1,5 ppm

Class 2A

Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B

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

Complies USP 2018 specifications