

**PRODUCT CODE: 141404****Magnesium Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade**

 $\text{MgO}_4\text{S} \cdot 7\text{H}_2\text{O}$ $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$

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.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** •**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 H2O	0,025 %
Loss on drying at 450°C	48,0-52,0 %
Chloride (Cl)	0,014%
Ammonium (NH4)	0,005%

Phosphate (PO ₄)	0,002 %
Residual solvents (Ph.Eur/USP)	passes test
Heavy metals (as Pb)	0,001%
Fe	0,002 %
Se	0,0015 %
As	0,00015 %
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