



PRODUCT CODE: 631404

Magnesium Sulfate 7-hydrate (Ph. Eur, BP) IPEC 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 **42** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **11 12** •

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:	
Identity Magnesium	passes test
Identity Sulfate	passes test

Maximum limit of impurities

Appearance of solution	
Appearance Clear < formazin I	passes test
Appearance Colourless	passes test
Acidity or alkalinity (< 0.2 ml HCl or NaOH 0.01N)	passes test
Loss on drying	48,0 - 52,0 %
Chloride (Cl)	0,0300 %
Residual solvents (Ph.Eur.)	passes test

Fe 0,0020%

Elemental impurities (ICH Q3D):

Class 1

Cd 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