



Specification

Concerning Product:	
Article number	14987043MPEU
Trade name / designation / denomination	Magnesiumtrisilikat, EP, USP
CAS number	14987-04-3
Other names / synonyms	•Magnesium Trisilicate; •dimagnesium dioxido-bis[[oxido(oxo)silyl]oxy]silane; •dimagnesium trisilicon octaoxide;
EC number	239-076-7
Molecular weight [g / mol]	260.8617
Formula	Mg ₂ O ₈ Si ₃

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance		white to almost white powder	
Physical parameter			
Acidity/Alkalinity	EP	HCl 0.1 M ≥ 100	ml
Acidity/Alkalinity	USP	HCl 0.1 N 140 – 160	ml
Bulk density		~400	g/l
Solubility		practically insoluble in water or ethanol (96%)	
Identity			
Assay	USP	MgO: ≥ 20	%
Assay	EP	MgO: ≥ 29	%
Assay		SiO ₂ / MgO-Ratio: 2,10 – 2,37	
Assay	USP	SiO ₂ : ≥ 45	%
Assay	EP	SiO ₂ : ≥ 65	%
Identification		complies	
Impurities			
Free Alkali (Ca(OH) ₂)	EP	max. 1 ml HCl 0.1 M	
Free Alkali (Ca(OH) ₂)	USP	max. 1 ml HCl 0.1 N	
Residue on ignition	USP	17 – 34	%
Residue on ignition	EP	17 – 34	%
Heavy Metals (as Pb)	EP	≤ 40	ppm
Heavy Metals (as Pb)	USP	≤ 30	ppm
Soluble part		salts ≤ 1,5	%
Sulphates (SO ₄)	USP	≤ 0,5	%
Sulphates (SO ₄)	EP	≤ 0,5	%
Elemental Impurities			
Arsenic (As)	USP	≤ 8	ppm
Arsenic (As)	EP	≤ 4	ppm
Chlorides (Cl)	USP	≤ 0,055	%
Chlorides (Cl)	EP	≤ 0,05	%
Microbiological data			
Escherichia Coli.		neg.	CFU/g
Pseudomonas aeruginosa		neg.	CFU/g
Staphylococcus Aureus		neg.	CFU/g
Total Plate Count		≤ 1000	CFU/g
Yeast and Mould		≤ 100	CFU/g

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Waltrop, 05. May. 2022

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