



Specification

Concerning Product:	
Article number	153531965MPEU
Trade name / designation / denomination	tri-Magnesiumdicitrat 9-Hydrat, EP, USP
CAS number	153531-96-5
Other names / synonyms	•tri-Magnesiumdicitrat 9-Hydrat;
EC number	

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution		complies	
Colour		white to off-white	
Odour		odourless	
Physical parameter			
Form		powder	
Loss on drying	USP	(@ 135°C, 16h) ≤ 29,0	%
Loss on drying	EP	(@ 180°C, 5h) 24,0 – 28,0	%
pH value	USP	(5% in H ₂ O) 5,0 – 9,0	
pH value	EP	(5% in H ₂ O) 6,0 – 8,5	
Solubility		in diluted acids: easily soluble	
Solubility		in ethanol: almost insoluble	
Solubility		in water: soluble	
Identity			
Assay	USP	(o.d.b.)* Mg (@ 135°C): 14,5 – 16,4	%
Assay	EP	(o.d.b.)* Mg (@ 180°C): 15,0 – 16,5	%
Assay		Mg: 11,3 – 12,5	%
Identification		complies	
Impurities			
Oxalate (as anhydros Oxalic Acid)		≤ 280	ppm
Sulphates (SO ₄)		≤ 0,2	%

Elemental Impurities			
Arsenic (As)		≤ 3	ppm
Calcium (Ca)		≤ 0,2	%
Chlorides (Cl)		≤ 0,05	%
Iron (Fe)		≤ 100	ppm

Annotation:

o.d.b. = on dried basis / auf getrockneter Basis

Supplemental information:

Shelf life: 5 years

Complies with monographie: EP, USP

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 23. Sep. 2024

LF-Basis: 2.0 (2024-03-07)

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