



## Specification

Concerning Product:	
Article number	3344181MPEU
Trade name / designation / denomination	Tri-Magnesiumdicitrat wasserfrei, EP/USP
CAS number	3344-18-1
Other names / synonyms	•trimagnesium dicitrate; •Magnesium citrate; •trimagnesium 2-hydroxypropane-1,2,3-tricarboxylate;
EC number	222-093-9
Customs tariff number / CN code / TARIC	29181500
Molecular weight [g / mol]	451.1144
Formula	C <sub>12</sub> H <sub>10</sub> Mg <sub>3</sub> O <sub>14</sub>

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance of solution	complies	
Appearance	white to off-white powder	
Odour	odourless	
<b>Physical parameter</b>		
Loss on drying	(EP): ≤ 3,5	%
Loss on drying	(USP): ≤ 2,0	%
pH value	(5% in H <sub>2</sub> O [EP]): 6,0 – 8,5	
pH value	(5% in H <sub>2</sub> O [USP]): 5,0 – 9,0	
Solubility	soluble in water; freely soluble in dilute acids; practically insoluble in ethanol (96%)	
<b>Identity</b>		
Assay	Mg (o.d.b.) <sup>1</sup> : 15,0 – 16,4	%
Identification	A.: complies	
Identification	B.: complies	

<b>Impurities</b>		
Heavy Metals (as Pb)	≤ 10	ppm
Oxalate (as anhydros Oxalic Acid)	≤ 0,028	%
Sulphates (SO <sub>4</sub> )	≤ 0,2	%
<b>Elemental Impurities</b>		
Arsenic (As)	≤ 3	ppm
Calcium (Ca)	≤ 0,2	%
Chlorides (Cl)	≤ 0,05	%
Iron (Fe)	≤ 0,01	%

**Annotation:**

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

**Supplemental information:**

**Released by manufacturer: 2018-07-31**

**Complies with monographie: Ph.Eur., USP**

**Regional origin: D**

**Version of manufacturer: 2**

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 13. Feb. 2019

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