



## Specification

Concerning Product:	
Article number	3344181LPEG
Trade name / designation / denomination	Tri-Magnesiumdicitrat wasserfrei, EP ASMF
CAS number	3344-18-1
Other names / synonyms	•Magnesium citrate; •trimagnesium 2-hydroxypropane-1,2,3-tricarboxylate; •trimagnesium dicitrate;
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	Test Method	Specification	Unit
<b>Organoleptic test</b>			
Appearance of solution	(5%)	complies	
Colour		white	
<b>Physical parameter</b>			
Form		powder	
Loss on drying	(180° C/ 5h)	≤ 3,5	%
pH value	(5%)	6,0 – 8,5	
<b>Identity</b>			
Assay		Mg (o.d.b.*) 14,0 – 16,0	%
Identification	Ph.Eur.	Citrate: complies	
Identification	Ph.Eur.	Magnesium: complies	
<b>Impurities</b>			
Oxalate (as anhydros Oxalic Acid)	(C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> )	≤ 280	ppm
Sulphates (SO <sub>4</sub> )		≤ 0,2	%

**Elemental Impurities**

Calcium (Ca)		≤ 0,2	%
Iron (Fe)		≤ 100	ppm
Nickel (Ni)		≤ 20	ppm

**Microbiological data**

Total Plate Count		≤ 2000	CFU/g
Yeast and Mould		≤ 200	CFU/g

**Annotation:**

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

**Regulatory information:**

**Residual solvents:** During production, filling and storage the product does not come in contact with the in Ph.Eur. (I 283/95) mentioned organic solvents.

**Supplemental information:**

**Note:** Heavy metal parameters of this specification were set according to I-Guideline Q3D on elementary contaminants based on a product-related risk assessment. The risk assessment was carried out considering option 1 (maximum daily dose 10 g/d) for oral use. Unless otherwise mentioned or specified, the presence of Class 1-3 elements (classification according to ICH Q3D) above the Q3D Option 1 limit is not likely to occur.

Other items are not knowingly added.

The specification includes monograph-specific element impurities. These will continue to be considered in the specification according to the monograph specification.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 24. Jun. 2019

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