



## Specification

Concerning Product:	
Article number	3344181XPU
Trade name / designation / denomination	Magnesium Citrate anhydrous
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	Specification	Unit
<b>Organoleptic test</b>		
Appearance	White or almost white hygroscopic powder	
<b>Physical parameter</b>		
Loss on drying	≤ 3,5	%
pH value	6,0 – 8,5	
Solubility	Soluble in water, practically insoluble in ethanol (96 per cent). It dissolves in dilute hydrochloric acid.	
<b>Impurities</b>		
Heavy Metals (as Pb)	≤ 10	ppm
Oxalate (as anhydros Oxalic Acid)	≤ 280	%
Sulphates (SO <sub>4</sub> )	≤ 0,2	%
<b>Elemental Impurities</b>		
Calcium (Ca)	≤ 0,2	%
Chlorides (Cl)	≤ 0,2	%
Iron (Fe)	≤ 200	ppm
Magnesium (Mg)	15,0 – 16,5	%
Lead (Pb)	≤ 3	ppm

<b>Microbiological data</b>		
Aerobic microorganisms	≤ 1000	CFU/g
Coliform bacteria	≤ 10	
Escherichia Coli.	Negative	CFU/g
Salmonella	Negative	
Staphylococcus Aureus	Negative	
Yeast and Mould	≤ 300	CFU/g

**Supplemental information:**

**Shelf life:** 2 years

**Conclusion:** Meets EP8.0

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 29. Sep. 2021

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