



Specification

Concerning Product:	
Article number	5949291EUPEBUL
Trade name / designation / denomination	Citronensäure Monohydrate, pharma & food
CAS number	5949-29-1
Other names / synonyms	•1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1); •2-hydroxypropane-1,2,3-tricarboxylic acid hydrate; •Citric Acid monohydrate;
EC number	201-069-1
Customs tariff number / CN code / TARIC	29181400
Molecular weight [g / mol]	210.1388
Formula	C ₆ H ₁₀ O ₈
Danger	
Causes serious eye damage. Causes serious eye irritation. IF IN EYES: Call a POISON CENTER or doctor/physician. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.	

Parameter	Specification	Unit
Organoleptic test		
Appearance of solution	Conforming with the test	
Appearance	fine, white crystalline powder	
Physical parameter		
Loss on drying	7,5 – 8,8	%
Solubility	very soluble in water, freely soluble in ethanol(98%)	
Identity		
Assay	99,5 – 100,5	%
Identification	Conforming with the test	
Impurities		
Heavy Metals (as Pb)	≤ 5	ppm
Oxalate (as anhydros Oxalic Acid)	≤ 0,01	%
Sulphated ash	≤ 0,05	%
Sulphates (SO ₄)	≤ 0,015	%

Elemental Impurities		
Aluminium (Al)	≤ 0,2	ppm
Arsenic (As)	≤ 1	mg/kg
Barium (Ba)	Conforming with the test	
Calcium (Ca)	≤ 0,02	%
Cadmium (Cd)	≤ 1	mg/kg
Chlorides (Cl)	≤ 0,005	%
Mercury (Hg)	≤ 1	mg/kg
Magnesium (Mg)	≤ 1	%
Lead (Pb)	≤ 0,5	mg/kg
Microbiological data		
Bacterial endotoxins	≤ 0,5	Iu/mg

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. Feb. 2022

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