



Specification

Concerning Product:	
Article number	5949291V01
Trade name / designation / denomination	Zitronensäure Monohydrat EP/USP/BP/FCC
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	clear and colourless	
Appearance	colourless or white crystalline powder	
Odour	typical, practically odourless	
Physical parameter		
Water content	7,5 – 8,8	%
Solubility	readily soluble in water; soluble in alcohol (96%); hardly soluble in ether	
Identity		
Assay	99,7 – 100,3	%
Identification	behaviour against sulphuric acid: complies	
Identification	complies	

Impurities		
Residue on ignition	≤ 0,05	%
Oxalate (as anhydros Oxalic Acid)	≤ 100	mg/kg
Sulphated ash	≤ 0,05	%
Sulphates (SO ₄)	≤ 100	mg/kg
Elemental Impurities		
Arsenic (As)	≤ 1	mg/kg
Calcium (Ca)	≤ 30	mg/kg
Chlorides (Cl)	≤ 5	mg/kg
Iron (Fe)	≤ 3	mg/kg
Mercury (Hg)	≤ 0,5	mg/kg
Lead (Pb)	≤ 0,5	mg/kg

Supplemental information:

Note: The manufacturer hereby certify that this product has been specified to meet the requirements of the latest editions of the European Pharmacopoeia (Ph. Eur.), the United States Pharmacopeia (USP), the Food Chemicals Codex (FCC) and Regulation (EU) No 231/2012. All analytical methods comply with the latest requirements of Ph. Eur., the USP, the FCC or are equivalent.

Complies with monographie: Ph. Eur / USP / FCC (E330)

Regional origin: EU

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 12. Feb. 2025

LF-Basis: 07.22 ()

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