



Specification

Concerning Product:	
Article number	5949291TLE
Trade name / designation / denomination	Zitronensäure Monohydrat
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	Test Method	Specification	Unit
Organoleptic test			
Appearance		white or colourless, odourless, crystalline solid, having a strongly acid taste	
Physical parameter			
Loss on drying	Karl Fisher	≤ 8,8	%
Solubility		Very soluble in water; freely soluble in ethanol; soluble in ether	
Identity			
Assay		≥ 99,5	%
Impurities			
Oxalate (as anhydros Oxalic Acid)		≤ 100	mg/kg
Readily carbonizable substances		complies	
Sulphated ash	After calcination at 800 ± 25 °C	≤ 0,05	%

Elemental Impurities			
Arsenic (As)		≤ 1	mg/kg
Mercury (Hg)		≤ 1	mg/kg
Lead (Pb)		≤ 0,5	mg/kg
Particle size distribution			
Particles		8 – 80	mesh

Supplemental information:

Shelf life: 2 years

Derivation: Fermentation of corn

Storage conditions: Keep in tightly closed original packing, at ambient temperature, in clean and dry place, away from direct sunlight and water

Complies with monographie: E 330

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. Feb. 2022

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