



## Specification

Concerning Product:	
Article number	6132043MPBUL
Trade name / designation / denomination	Trinatriumcitrat Dihydrat, USP, E331
CAS number	6132-04-3
Other names / synonyms	•1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt, hydrate (1:3:2); •Sodium Citrat crystalline; •Sodium Citrat powder; •trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate; •trisodium citrate dihydrate;
EC number	612-118-5
Customs tariff number / CN code / TARIC	29181500
Molecular weight [g / mol]	294.09957
Formula	C <sub>6</sub> H <sub>9</sub> Na <sub>3</sub> O <sub>9</sub>

Parameter	Test Method	Specification	Unit
<b>Organoleptic test</b>			
Appearance of solution		clear and colourless	
Appearance		white crystalline powder or colourless crystals	
<b>Physical parameter</b>			
Acidity/Alkalinity		complies	
Loss on drying		( 180 °C / 18h) 10,0 – 13,0	%
pH value		(5% in H <sub>2</sub> O): 7,5 – 9,0	
Solubility		freely soluble in water, practically insoluble in ethanol (96 %)	
<b>Identity</b>			
Assay		99,0 – 100,5	%
Identification		complies	
<b>Impurities</b>			
Heavy Metals (as Pb)		≤ 5	ppm
Oxalate (as anhydros Oxalic Acid)		≤ 100	ppm
Readily carbonizable substances		complies	
Sulphates (SO <sub>4</sub> )		≤ 150	ppm
Related substances	Tartrate	complies	
Related substances	Pyrogenes	complies	
<b>Elemental Impurities</b>			
Arsenic (As)		≤ 1	ppm
Cadmium (Cd)		≤ 0,1	ppm
Chlorides (Cl)		≤ 50	ppm
Iron (Fe)		≤ 1	ppm
Mercury (Hg)		≤ 0,1	ppm
Lead (Pb)		≤ 1	ppm
<b>Organic volatile impurities</b>			
Org. volat. Imp. Total		complies	
<b>Particle size distribution</b>			
Particles		40 - 100 mesh	%

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Waltrop, 02. Dec. 2021

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