



## Specification

Concerning Product:	
Article number	10035048MPEUL
Trade name / designation / denomination	Calciumchlorid 2-Hydrat, EP, USP, E 509 Dihydrat
CAS number	10035-04-8
Other names / synonyms	•CALCIUM CHLORIDE; •CALCIUM CHLORIDE DIHYDRATE, ACS; •CALCIUM CHLORIDE, DIHYDRATE, U.S.P.; •Calcium Chloride, Dihydrate, BiotechGrade; •Calcium Chloride, Dihydrate, FCC; •Calcium Chloride, Dihydrate, Reagent, ACS; •Calcium Chloride, Dihydrate, Technical; •Calcium Chloride, Dihydrate, USP, EP, BP, JP; •Calcium chloride; •Calcium chloride (CaCl <sub>2</sub> ), dihydrate;
EC number	233-140-8
EC index number	017-013-00-2
Customs tariff number / CN code / TARIC	28272000
Molecular weight [g / mol]	142.983
Formula	CaCl <sub>2</sub> H <sub>4</sub> O <sub>2</sub>
Causes serious eye irritation. IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.	

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance of solution	clear, not more intensely coloured than reference solution Y6	
Appearance	white to off-white, crystalline powder, hygroscopic or deliquescent crystals	
Odour	odourless	
<b>Physical parameter</b>		
Acidity/Alkalinity	0.01 M HCl / NaOH ≤ 0,2	ml
pH value	50 mg/ml 4,5 – 9,2	
Solubility	freely soluble in water, soluble in ethanol (96 %)	
<b>Identity</b>		
Assay	99,0 – 103,0	%
Assay	on dry basis ≥ 93,0	%
Identification	Ca: complies	
Identification	Cl: comlies	
<b>Impurities</b>		
Heavy Metals (as Pb)	≤ 2	ppm
Sulphates (SO <sub>4</sub> )	≤ 300	ppm

<b>Residual Solvents</b>		
Residual solvents	no organic solvents are used in the production, the product meets the requirements of USP, EP and EMA/CHMP /ICH/82660/2006 for residual solvents	
<b>Elemental Impurities</b>		
Aluminium (Al)	≤ 1	ppm
Arsenic (As)	≤ 3	ppm
Fluorine (F)	≤ 40	ppm
Iron (Fe)	≤ 10	ppm
Mercury (Hg)	≤ 1	ppm
Magnesium (Mg)	& Alkalimetals: ≤ 0,5	%
Magnesium (Mg)	& Alkalisalt ≤ 5	%
<b>Microbiological data</b>		
Bacterial endotoxins	≤ 3	I.E./g

**Supplemental information:**

**Regional origin:** EU

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 10. Feb. 2022

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