



Specification

Concerning Product:	
Article number	10035048VEL
Trade name / designation / denomination	Calciumchlorid 2-Hydrat, EP, USP, E509
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 ₂), dihydrate;
EC number	233-140-8 600-075-5
EC index number	017-013-00-2
Customs tariff number / CN code / TARIC	28272000
Molecular weight [g / mol]	142.983
Formula	CaCl ₂ H ₄ O ₂
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	Test Method	Specification	Unit
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Organoleptic test

Appearance of solution		Clear, not more intensely than Y6
Appearance		White or almost white, hygroscopic, crystalline powder or crystals

Physical parameter

Acidity/Alkalinity		Must conform to standard
pH value		(5%): 4,5 – 9,2
Solubility		Soluble in water and Ethanol (96%)

Identity

Assay	Ph. Eur.	97,0 – 103,0	%
Assay	E509	≥ 93,0	%
Assay	USP	99,0 – 107,0	%
Identification		Must conform to standard	

Impurities			
Sulphates (SO ₄)		≤ 300	ppm
Impurity		Fluoride: ≤ 40	ppm
Impurity	Ph. Eur.	Magnesium and alkali metals: ≤ 0,5	%
Impurity	USP	Magnesium- and alkali salts: ≤ 1,0	%
Impurity	E509	Magnesium- and alkali salts: ≤ 5	%
Elemental Impurities			
Aluminium (Al)	USP	≤ 1	ppm
Aluminium (Al)	Ph. Eur.	≤ 1	ppm
Arsenic (As)		≤ 3	ppm
Iron (Fe)		≤ 10	ppm
Mercury (Hg)		≤ 1	ppm
Lead (Pb)		≤ 2	ppm

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 08. Sep. 2026

LF-Basis: (2025-11-27)

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