

## Specification

Magnesia 4152  
Magnesium chloride-6-hydrate,  
EP, USP, E 511, FCC

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Article No.:	6415200
Specification Type:	API
Version:	4
Issue Date:	27/04/2021
Manufacturer's Designation:	Magnesium chloride hexahydrate EP, USP, FCC, E 511, product specification no. 171
Manufacturing Site:	Macco Organiques, s.r.o. Zahradní46c Bruntál 792 01, Czech

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Appearance (EP)	colourless, hygroscopic crystals
Appearance (FCC)	colourless, hygroscopic flakes or crystals
Appearance (E 511)	colourless, very deliquescent flakes or crystals
Solubility (EP)	freely soluble in ethanol (96 %); very soluble in water
Solubility (FCC, E 511)	freely soluble in ethanol; very soluble in water
Identification (Cl)	complies
Identification (Mg)	complies
Assay (EP, USP)	98.0 - 101.0 %
Assay (FCC)	99.0 - 105.0 %
Assay (E 511)	Min. 99.0 %
Appearance of solution	clear and colourless
Acidity / alkalinity	max. 0.3 ml of 0.01 M HCl / NaOH
Pb (FCC)	Max. 4 ppm
Pb (E 511)	Max. 2 ppm
Hg	Max. 1 ppm
As	Max. 3 ppm
Fe	Max. 10 ppm
Al	Max. 1 ppm
Ba	complies
Br	Max. 500 ppm
SO <sub>4</sub> (EP)	Max. 100 ppm
SO <sub>4</sub> (USP)	Max. 0.005 %
SO <sub>4</sub> (FCC)	Max. 0.03 %
Ca (EP)	Max. 0.1 %
Ca (USP)	Max. 0.01 %

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NH4 (FCC)	Max. 0.005 %
NH4 (E 511)	Max. 50 ppm
K (EP)	Max. 500 ppm
K (USP)	complies
Water	51.0 - 55.0 %
Insoluble substances	Max. 0.005 %
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
pH value (50 mg/ml)	4.5 - 7.0

Released by: 27/04/2021, David Roether

Parameters indicated in this specification are based on our current, carefully determined knowledge. It is the users own responsibility to test and analyze materials and therefore corroborate that products are adequate for their applications.