



Certificate of Analysis

Date of print 2020-11-12

302076

Magnesium Chloride-6-hydrate chem. pure, cryst.,
Ph. Eur., USP, FCC, E 511

Batch

0000000054

	Specification	Batch values
Appearance	white crystals	white crystals
Identity	passes test	passes test
Appearance of solution (10%; water)	clear and colourless	clear and colourless
Assay ($\text{MgCl}_2 \times 6\text{H}_2\text{O}$)	99,0 - 101,0 %	100,2 %
Water (according to Karl Fischer)	51,0 - 55,0 %	53,3 %
pH value (5%)	4,5 - 7,0	5,7
Acidity (0,01 M NaOH/0,5g)	$\leq 0,30$ ml	0,05 ml
Alkalinity (0,01 M HCl/0,5g)	$\leq 0,30$ ml	0,05 ml
Insoluble matter (water)	$\leq 0,005$ %	$< 0,005$ %
Barium	passes test	passes test
Ammonium (NH_4)	$\leq 50,0$ mg/kg	$< 50,0$ mg/kg
Calcium (Ca)	$\leq 100,0$ mg/kg	5,0 mg/kg
Bromide (Br)	$\leq 500,0$ mg/kg	$< 20,0$ mg/kg
Potassium (K)	$\leq 500,0$ mg/kg	$< 1,0$ mg/kg
Sulphate (SO_4)	$\leq 50,0$ mg/kg	19,7 mg/kg
Aluminium (Al)	$\leq 1,0$ mg/kg	$< 0,5$ mg/kg
Iron (Fe)	$\leq 10,0$ mg/kg	$< 0,5$ mg/kg
Heavy metals (as Pb)	$\leq 10,0$ mg/kg	$< 2,0$ mg/kg
Arsenic (As)	$\leq 2,0$ mg/kg	$< 0,5$ mg/kg
Lead (Pb)	$\leq 2,0$ mg/kg	$< 0,5$ mg/kg
Mercury (Hg)	$\leq 1,0$ mg/kg	$< 0,5$ mg/kg
Cadmium (Cd)	$\leq 1,0$ mg/kg	$< 0,5$ mg/kg

SEIT 1888

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This product complies to the requirements according to ICH Guideline Impurities: "Residual solvents" (CPMP/ICH/283/95) – Ph. Eur. and/or USP.

Date of examination (yyyy-mm-dd): 2020-09-21

Minimum shelf life (yyyy-mm-dd): 2023-08-31

Dr. Annika Arndt

responsible laboratory manager quality control

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SEIT 1868

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