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CERTIFICATE OF ANALYSIS

Product: **Magnesium sulfate heptahydrate**, reagent grade, Batch 11609502
MA0085 ACS Test date 09/03/2010
Shelf life 3/2015

Analysis	Batch value	Guaranteed value
assay (complexometric, on dried subs.)	100,5 %	99,0 - 100,5 %
identity	passes test	passes test
appearance of solution	passes test	passes test
insoluble in water	< 0,005 %	max. 0,005 %
pH (5 %, H ₂ O)	6,1	5,0 - 8,0
acidity/alkalinity	passes test	passes test
chlorides (Cl)	< 0,0003 %	max. 0,0003 %
nitrates (NO ₃)	< 0,002 %	max. 0,002 %
total N	< 0,002 %	max. 0,002 %
ammonium (NH ₄)	< 0,002 %	max. 0,002 %
arsenic (As)	< 0,0002 %	max. 0,0002 %
calcium (Ca)	< 0,005 %	max. 0,005 %
copper (Cu)	< 0,0001 %	max. 0,0001 %
heavy metals (as Pb)	< 0,0005 %	max. 0,0005 %
iron (Fe)	< 0,0001 %	max. 0,0001 %
lead (Pb)	< 0,0001 %	max. 0,0001 %
manganese (Mn)	< 0,0005 %	max. 0,0005 %
potassium (K)	< 0,001 %	max. 0,001 %
sodium (Na)	< 0,001 %	max. 0,001 %
strontium (Sr)	< 0,005 %	max. 0,005 %
loss on drying (400 °C)	51,5 %	48,0 - 52,0 %

This certificate does not release the user from the reception control .

This certificate is an electronic copy of the certificate available in our laboratory, and does not require signature

If you need further details, please call at our factory or contact our local distributor.

You can get a copy of any of our COA from our web site: www.scharlau.com