

Certificate of analysis

**Epsom Salt pure, technical**  
 mín. 99 % MgSO<sub>4</sub>, calculated with reference to the dried  
 substance

 2013-03-20  
 Werk Werra, Standort HA  
 Kolz, Dr. Nicole  
 Quality control  
 06620/792050

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Manufacturer:	K+S KALI GmbH.	K+S Batch No.:	1113000784
K+S Order No.:	4000416755	Manufact. Date:	2013-03-17
Cust. Order No.:	21074	Date of minimum	
Delivery /-Item No.:	4100962874 / 000010	durability:	2018-03-17
Quantity:	19,250 TO	K+S Specification:	74922 361-11 (K01)
Shipping date:	2013-03-20		

Parameter	Result	Specification
K <sub>2</sub> SO <sub>4</sub> + CaSO <sub>4</sub>	corresponds	typ. 0.1 %
KCl + NaCl	corresponds	typ. 0.04 %
Loss on Ignition	50.6 %	<= 51.9 %
Magnesium Sulphate	49.2 %	>= 48.0 %
Iron	*) 0.1 mg/kg	typ. 10 mg/kg
Chloride	0.007 %	<= 0.150 %
Calcium	0.001 %	<= 0.050 %
Zinc	*) <0.1 mg/kg	<= 10 mg/kg
Heavy Metals as Lead	*) <10 mg/kg	<= 10 mg/kg
pH-value	8.0	5.0 .. 9.2
Manganese	*) 1 mg/kg	typ. 1 mg/kg
Assay (Dried Basis)	99.6 %	>= 99.0 %
Arsenic	*) <0.1 mg/kg	<= 3 mg/kg

\*) not tested on each batch

Electronically released by Kolz, Dr. Nicole on 2013-03-18

This certificate does not relieve the purchaser from examining the product upon delivery and gives no assurance of suitability of the product for any particular purpose.