



Certificate of Analysis

The Authority in Potassium and Magnesium

Potassium Chloride 99.9 % KCl

Ph. Eur., USP

2017-11-14
 Werk Werra, Standort WI
 Sebastian Dold
 Quality Control
 06620/792050
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Manufacturer:	K+S KALI GmbH	K+S Batch No.:	3417000594
K+S Order No.:	4000652406	Manufact. Date:	2017-11-07
Cust. Order No.:	4600009809 Lot 2	Retest date:	2020-11-06
Delivery /-Item No.:	4101635270 / 000010		
Quantity:	21 TO	K+S Specification:	77762 2-0 (STD)
Shipping date:	2017-11-14		

General information:

Appearance: White or almost white, crystalline powder or colourless crystals.

Solubility: Freely soluble in water, practically insoluble in anhydrous ethanol.

Residual solvents: Meets ICH guideline CHMP/ICH/82260/2006 and test < 467 > of the United States Pharmacopoeia.

Manufacturer's address: Bertha-von-Suttner-Str. 7, 34131 Kassel, Germany

Manufacturing site's address: In der Aue 1, 36266 Heringen, Germany

Parameter	Method of Analysis	Result	Specification
Appearance of Solution	Ph. Eur.	corresponds	o.K.
Acidity/Alkalinity	volumetry	corresponds	o.K.
Bromide *)	K+S 0370.02 (KCl) RFA	corresponds	<= 1000 mg/kg
Sulphate	ICP-AES (KCl)	5 mg/kg	<= 300 mg/kg
Aluminum	ICP-AES (KCl)	0.1 mg/kg	<= 1 mg/kg
Iron	ICP-AES (KCl)	<0.1 mg/kg	<= 20 mg/kg
Alkaline-Earth Metals as Ca	ICP-AES (KCl)	4 mg/kg	<= 200 mg/kg
Sodium	ICP-AES (KCl)	18 mg/kg	<= 1000 mg/kg
Heavy Metals as Lead	Ph. Eur.	corresponds	<= 10 mg/kg
Loss on drying (3h, 105°C) *)	gravimetry	0.01 %	<= 1.0 %
Identity Reaction	ICP-AES (KCl)	corresponds	o.K.
Iodide acc. Ph.Eur. *)	Ph. Eur.	corresponds	o.K.
Iodide acc. USP *)	colorimetry (KCl)	<3 mg/kg	<= 50 mg/kg
Barium acc. Ph.Eur. *)	DIN EN ISO 11885 (KCl)	corresponds	o.K.
Assay (Dried Basis)	calculated	100.0 %	99.0 .. 100.5 %

*) not tested on each batch

Electronically released by Sebastian Dold on 2017-11-08

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.