CHEMISCHE FABRIK KALK GMBH

Technical Information

01.03.2026

Potassium chloride 99 % technical

Chemical formula: KCl 99 %
CAS-No.: 7447-40-7
EC-No.: 231-211-8
Appearance: White to slightly reddish, crystalline

Characteristic	Unit	Specification	Typical Value
Potassium chloride (KCl)	%	min. 99	99.1
Loss on ignition	%	max. 0.4	0.3
Loss on drying (2 h, 105 °C)	%	max. 0.2	0.1
Na	%	0.2 – 0.3	0.2
Br	mg/kg	450 – 1200	900
Mg	mg/kg	20 – 120	75
Ca	mg/kg	2 – 20	7
SO_4	mg/kg	40 – 100	65
H_2O-Insoluble	mg/kg	30 – 100	100
Heavy metals as Pb	mg/kg	5	–

Particle size distribution	Unit	Specification	Typical Value
< 0.8 mm	%	–	99
d_{50}	mm	–	0.3

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Deutsche Bank AG
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VAT-ID-No.: DE811122777

Managing Directors:
Fabian Broll, Thomas Gerke
Company seat: Cologne
Register court: Cologne (HRB 650)

A K+S Company

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Physical properties	Unit	Specification	Typical Value
Bulk density	kg/m³	–	ca. 1100
Shake density	kg/m³	–	ca. 1200
Angle of repose	°	–	ca. 31
Molar mass	g/mol	–	74.55
Density	g/cm³	–	1.989
Melting point / Freezing point	°C	–	770
Solubility in water (w (KCl), 20 °C)	%	–	25.5

On request: Conditioning with anti-caking agent (unconditioned, the product tends to harden).

Packaging: 25 kg PE-bags;
Big Bags;
Bulk.

This document has been created only for informational purposes to the best knowledge of CHEMISCHE FABRIK KALK GMBH and within the framework of the quality management. All previous versions shall be superseded by the current version. The information given above does not constitute a legally binding assurance of certain characteristics of the product or certain properties for a specific use. It does not exempt the client from the obligation of carrying out an incoming goods inspection and does not justify any third party claims. The Material Safety Data Sheet is to be observed.

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