Potassium Chloride 99 % KCl

technical industrial

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Combined nomenclature: 31,042,090

Nature of Product: white crystals, occasionally slightly reddish

Chemical Analysis:	**w**	**typical**	**min.**	**max.**
• Potassium chloride (KCl)	%	99.1	99.0	
• Loss on Ignition	%	0.3		0.4
• Loss on Drying (2 h, 105°C)	%	0.1		0.2
• Na	%	0.2	0.2	0.3
• Br	mg/kg	900	450	1,200
• Mg	mg/kg	75	20	120
• Ca	mg/kg	7	2	20
• SO_4	mg/kg	65	40	100
• H_2O-Insolubles	mg/kg	100	30	100
• Heavy metals as Pb	mg/kg			5

Granulometry:	**typical**
• < 0.8 mm	99 %
• d_{50}	0.30 mm

Physical Properties:

• Bulk Density	ca. 1,100 kg/m³	
• Molecular Weight	74.55 g/mol	
• Density	1.989 g/cm³	
• Melting / Solidification Point	770 °C	
• Solubility in water	w (KCl) = 25.5 %	at 20 °C (68 °F)

Additive:

- Upon request with an anti-caking agent (the pure product is prone to caking)

Packaging:

- PE bags of 25 kg, big bags, in bulk

Application:

Chlor-alkali electrolysis, for the production of chlorine and potassium hydroxide as well as their subsequent products; conversion into other potassium containing salts; electroplating and fusion electrolysis of other metals; dyestuffs; salt fluxes and carburising agents; carrageenan; regeneration agent for ion exchangers; zeolites; synthetic rubber production; liquid fertilisers; glass industry.

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