



## Potassium Chloride

FCC, FAO, WHO, E 508

Purity and properties correspond to the requirements of the a.m. regulations (see enclosed table for values/limits)

Version 1

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**Combined nomenclature:** 31,042,090

**Nature of Product:** white crystals

<b>Chemical Analysis:</b>	<b>typical</b>	<b>w</b>
• KCl, calculated with reference to the dried substance	99.1	%
• Loss on Drying (2 h, 105°C)	0.1	%
• Na	0.2	%
• Mg	100	mg/kg
• Ca	10	mg/kg
• SO <sub>4</sub>	100	mg/kg

### Physical Properties:

- Density 1.987 g/cm<sup>3</sup>
- Melting / Solidification Point 771 °C
- Solubility in water w (KCl) = 25.5 % at 20 °C (68 °F)

### Available grain sizes:

- 0.2 - 0.6 mm
- 0.2 - 0.4 mm
- 0.1 - 0.3 mm

### Available premixes with anti-caking agents:

- 1 % magnesium hydroxide carbonate
- 0.5 % silicon dioxide

### Date of minimum durability:

- 5 years after production

### Storage:

Keep the closed original packaging at a dry and cool place (preferably 5 - 30 °C) without direct exposure to sunlight.

### Packaging:

- FFS-PE bags 25 kg
- Big Bags

### Application:

For the manufacture of dietetic salts, as salt substitute, finishing of carrageenan products and other food and food additive uses. Also for production of other potassium compounds for human consumption.

The data given above are based on our continuous quality monitoring system. They do not exempt the users from their obligation to make an incoming control of the delivered product. The data are for information purposes only and are not to be taken as a guarantee. It is the responsibility of the users to determine the product's suitability for its intended use.

## Limits for Potassium Chloride in the relevant regulations

Parameter	FCC VI	Codex Alimentarius	2008/84/EC (E 508)
Assay, calculated with reference to the dried substance	≥ 99.0 % (≥ 98.0 % with additives)	≥ 99.0 %	≥ 99 %
Description	colourless, elongated, prismatic, or cubical crystals, or a white granular powder; stable in air; solution is neutral to litmus	colourless, elongated, prismatic, or cubical crystals, or white granular powder; odourless	colorless, elongated, prismatic or cubical crystals, or white granular powder; odourless
Solubility	one gram dissolves in 2.8 ml of water at 25°, and in about 2 ml of boiling water; with additives it may produce a cloudy solution or dissolve incompletely; insoluble in alcohol	freely soluble in water; insoluble in ethanol	freely soluble in water; insoluble in ethanol
Identification	a 1:20 solution gives positive tests for Potassium and for Chloride	passes tests for potassium and chloride	passes tests for potassium and chloride
Acidity or alkalinity	(without additives) no pink color with phenolphthalein, pink color after addition of 0.3 ml of 0.02 N NaOH	no pink color with phenolphthalein, pink color after addition of 0.3 ml of 0.02 N NaOH	-
Bromides	free from even a transient violet or a permanent orange color	free from even a transient violet or a permanent orange color	-
Iodides	-	-	-
Arsenic	-	-	≤ 3 mg/kg
Lead	-	≤ 2 mg/kg	≤ 5 mg/kg
Mercury	-	-	≤ 1 mg/kg
Cadmium	-	-	≤ 1 mg/kg
Heavy metals	≤ 5 mg/kg	-	≤ 10 mg/kg
Sodium	a 1:20 solution, tested on a platinum wire, does not impart a pronounced yellow color to a nonluminous flame (≤ 0.5 % with additives)	does not impart an intense yellow colour to a non-luminous flame	does not impart an intense yellow color to a non-luminous flame
Loss on drying	≤ 1.0 %	≤ 1 %	≤ 1 %

∴ not specified