

**POTASSIUM CARBONATE POWDER, 99 – 100 %****GENERAL INFORMATION**

<b>Chemical Identity</b>	Potassium Carbonate Potash K <sub>2</sub> CO <sub>3</sub>
<b>CAS No.</b>	584-08-7
<b>EINECS No.</b>	209-529-3
<b>Molar Mass</b>	138.2 g/mol
<b>Appearance</b>	white powder

**PHYSICAL PROPERTIES**

<b>Property</b>	<b>Value (approx.)</b>	<b>Unit</b>
Density (20 °C)	2.4	g/cm <sup>3</sup>
Bulk density (20 °C)	0.55 – 0.65	g/cm <sup>3</sup>
Melting point	891	°C
Solubility in 100 g water (20 °C)	110	g
Solubility in 100 g water (60 °C)	127	g
Particles > 200 mesh	max. 20	%

**PACKAGING**

- 25 kg PE bags on pallets
- Big bags on pallets
- Special packaging on request

## STORAGE AND HANDLING

For consistent product quality, Potassium Carbonate is recommended to be stored under specific conditions: (i) tightly sealed (packaging), (ii) dry (exclusion of humidity) and (iii) at constant mild temperature.

Storage under tightly sealed and dry conditions is very important due to the hygroscopic property of Potassium Carbonate. When exposed to humidity the material will absorb water molecules from the surrounding environment and even by diffusion through a tightly sealed foil packaging. This effect leads to an increase of water content over time causing a slight decrease of the total alkalinity.

To be aware of the current product quality under recommended storage conditions and irrespective of the contractual warranty period, a retest of total alkalinity and water content is suggested prior to use - in particular if Potassium Carbonate has been stored under the recommended storage conditions for a period of more than 2 years.

Please feel free to contact your customer service representative in case of additional questions regarding storage conditions and stability.

## CERTIFICATES AND REGULATORY AFFAIRS

- ISO 9001
- ISO 14001
- HACCP
- Kosher & Halal
- Vegan, no allergens

The status per country can be viewed online at [www.potassium-derivatives.com](http://www.potassium-derivatives.com).

## SAFETY AND ENVIRONMENT

Potassium Carbonate has numerous common applications e.g. in food, animal nutrition, pharma and agrosynthesis. However, in its pure form it is classified as hazardous substance. Therefore, the information provided in the Safety Data Sheet concerning safety and handling must be observed.

## CHEMICAL PROPERTIES

Property	Value	Unit	Method
Total alkalinity as K <sub>2</sub> CO <sub>3</sub>	≥ 99	%	Titration
Potassium hydroxide	≤ 0.15	%	Titration
Loss on drying	≤ 0.8	%	Gravimetry
Sodium	≤ 0.25	%	AES
Sulfate	≤ 50	mg/kg	IC
Chloride	≤ 30	mg/kg	Titration
Silicon	≤ 20	mg/kg	ICP - OES
Iron	≤ 5	mg/kg	ICP - OES
Arsenic	≤ 1	mg/kg	ICP - OES
Lead	≤ 1	mg/kg	ASV
Mercury	≤ 1	mg/kg	AAS
Heavy metals as lead	≤ 1	mg/kg	ASV

The product meets the requirements of PHEUR/FCC/BP and according to regulation (EU) No. 231/2012 the specification for food additive E 501 (i).

All chemical and physical properties provided are no specification items and for informational purposes only.

### Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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