Product information

# POTASSIUM CARBONATE HYDRATE, 83 – 85 %

## GENERAL INFORMATION

| | |
|---|---|
| **Chemical Identity** | Potassium Carbonate Hydrate<br>Potash Hydrate<br>$K_2CO_3 \cdot 1.5\ H_2O$ |
| **CAS No.** | 584-08-7 |
| **EINECS No.** | 209-529-3 |
| **Molar Mass** | 165.2 g/mol |
| **Appearance** | white crystals |

## PHYSICAL PROPERTIES

| Property | Value (approx.) | Unit |
|---|---|---|
| Density (20 °C) | 2.2 | $g/cm^3$ |
| Bulk density (20 °C) | 1.15 - 1.25 | $g/cm^3$ |
| Decomposition temperature* | 130 | °C |
| Solubility in 100 g water (20 °C) | 168 | g |
| Solubility in 100 g water (60 °C) | 202 | g |
| Particles > 1.4 mm (Sieving) | 4 - 7 | % |
| Particles < 100 µm (Sieving) | 3 - 5 | % |

* Delivery of hydration water

## PACKAGING

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

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## 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.

## 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.

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## CHEMICAL PROPERTIES

| Property | Value | Unit | Method |
|---|---|---|---|
| Total alkalinity as $K_2CO_3$ | ≥ 83 | % | Titration |
| Potassium hydroxide | ≤ 0.15 | % | Titration |
| Sodium | ≤ 0.25 | % | AES |
| Sulfate | ≤ 50 | mg/kg | IC |
| Chloride | ≤ 20 | mg/kg | Turbidity |
| 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 |

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



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