



Potassium Chloride PRODUCT PROFILE

CHARACTERISTICS

Potassium chloride is a white crystalline or colorless granular material. It is odorless, stable in air and highly soluble in water. In addition to USP-, FCC-, and ACS-certified grades, we also offer those with BP, EP and JP certifications.

Special grades include those that resist caking and separation in blends with sodium chloride, as well as those for microencapsulation. We also can customize potassium chloride for particle size, flavor enhancer content and other customer requirements.

PROPERTIES

Chemical formula KCl
Molecular weight 74.55
Specific gravity 1.988
Density of saturated, aq. solution at 15°C ..1.172
Melting point, °C773
Bulk density (typical):
Loose pack 65.5 lb/cu ft (14.6 fl oz/lb)
Tight pack71.0 lb/cu ft (13.5 fl oz/lb)
Solubility in water 1.0g KCl in 2.8 ml at 20°C

SPECIFICATIONS

USP/FCC	
Assay dry basis (KCl)	99.0 - 100.5%
Acidity and alkalinity	Passes USP test
Loss on drying (2 hrs. @ 105°C)	1.0% max.
Iodide	0.005% max
Bromide	0.1% max
Calcium and magnesium	Passes USP test
Heavy metals	5 ppm max.
Sodium	Passes USP test
Residual solvents	Conforms to USP
Lead	1.0 ppm max.*
Aluminum	1 ppm max.**

ACS	
Assay dry basis (KCl)	99.0 - 100.5%
Iodide	0.002% max.
Bromide	0.01% max.
Chlorate/nitrate (as nitrate)	0.003% max.
Phosphate	5 ppm max.
Barium	0.001% max.
Sulfate (total sulfur)	0.001% max.
Heavy metals (as Pb)	5 ppm max.
Iron, Fe	3 ppm max.
Insoluble matter	0.005% max.
Calcium	0.002% max.
Magnesium	0.001% max.
Sodium	0.005% max.
pH	5.4 - 8.6

*Meets California Proposition 65.

**For hemodialysis.

PRODUCT MARKETS AND USES

Food

- Prepared foods, e.g., salt substitutes
- Baby formulas
- Brined meats, e.g., bacon, ham, hot dogs, salami
- Cheeses, e.g., colby, swiss, parmesan, hard cheeses
- Snack foods, e.g., pretzels, saltines, corn chips
- Seasonings, sauces and soups
- Refrigerated dough
- Diet foods and diet, nutritional and sport drinks

Pharmaceuticals

- Potassium source to replenish electrolyte
- Hemodialysis and intravenous solutions
- Mineral and nutritional supplements

General Industry

- Laboratory reagent
- Photographic emulsions in film
- Reducing agent for metals and metal plating
- Welding fluxes and products

Potassium Chloride

PRODUCT PROFILE

GRADES, FORMS & SHIPPING CONTAINERS

- **Pharma-K™** USP/FCC pharmaceutical and food grade potassium chloride
- **Nutri-K™** USP/FCC pharmaceutical and food grade potassium chloride (contains 0.5% magnesium carbonate FCC anticaking agent)*
- **Pure-K™** high purity potassium chloride that meets ACS standards
- **Na-K™** FCC sodium chloride/potassium chloride blends
- **Custom Grades:**
 - Controlled particle size
 - Controlled particle shape
 - Controlled particle moisture

All grades available in: 250-lb. fiber drums; 50-lb. bags; and 100-lb. and 50- or 100-kg drums. Non-standard packaging options are also available.

*Also available with magnesium stearate, silicon dioxide, and tricalcium phosphate as anti-caking agents

SHIPPING LOCATION

Midlothian, TX

SHIPPING REGULATIONS

Not Regulated

RECOMMENDED SHELF LIFE

Shelf life of 12 weeks without additives. Anti-caking agents can aid flow, eliminate hardening and significantly extend shelf life. Store KCl in closed containers in dry areas free of excessive air flow.

CORPORATE HEADQUARTERS

General Chemical
90 East Halsey Road
Parsippany, NJ 07054

IN CANADA

Call Customer Service at
(800) 631-8050 (English)
(866) 543-3896 (French)

PRODUCT SAFETY INFORMATION

Potassium chloride does not present any critical hazard to man or the environment, although it may irritate the skin, eyes and respiratory tract.

As with any chemical, potassium chloride requires care in handling. Anyone responsible for the procurement, use or disposal of this product should familiarize himself and those handling the product with the appropriate safety and handling precautions. This information is available in the Material Safety Data Sheet, which may be obtained by contacting our Customer Service or Technical Service groups (see box below).

In the event of an emergency with these products, call the 24 hour Emergency Number:
US Only: (CHEMTREC) (800) 424-9300
Canada Only: (CANUTEC) (613) 996-6666



CUSTOMER & TECHNICAL
SERVICE

(800) 631-8050

WEBSITE

www.GeneralChemical.com

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