

SPECIFICATION

Product Name: Potassium Chloride Food Grade
Chemical Formula: KCL
CAS Number: 7447-40-7
Molecular Weight: 74.55 g/mol
Appearance: Colorless crystals or a white, crystalline powder.
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Alkalinity/Acidity	-	Complies	NMT 0.5 ml of 0.1 M NaOH or 0.01 M HCL is required
Identification A) Potassium Salt B) Chlorides	- -	Complies Complies	A yellow or orange ppt formed A White curdy ppt form
Appearance	-	Complies	Solution A is clear and colorless
Arsenic	PPM	Complies	Max. 1 PPM
Barium	-	Complies	To pass test
Heavy Metal	PPM	Complies	Max. 10 PPM
Calcium and Magnesium	-	Complies	To passes Test
Iron	PPM	Complies	Max. 20 PPM
Bromide	%	Complies	Max. 0.1%

Iodides	-	Complies	The substance shows no blue color after 5 minutes
Sulfate	PPM	Complies	Max. 300 PPM
Loss On Drying	%	0.37%	Max. 1%
Assay	%	99.58%	99.0% to 100.5%
Aluminum	PPM	Complies	Max. 1 PPM
Sodium	%	Complies	Max. 0.1%

Physical Properties

- Solubility: Freely soluble in water. Slightly soluble in alcohol.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep container tightly closed to avoid moisture absorption. Protect from humidity and direct sunlight. Store away from strong acids and oxidizing agents. Recommended storage temperature: Room temperature (below 30°C).

Applications

- Use: Salt substitute in low-sodium and reduced-sodium foods. Electrolyte replenisher in sports drinks and oral rehydration products. Used as a nutrient source of potassium. Acts as a flavor enhancer in processed foods. Used in bakery products, dairy products, sauces, soups, and snacks. Helps maintain mineral balance in fortified foods. Used in pharmaceutical and nutraceutical formulations as a potassium supplement.
 - Dosage: Depends on the application and regulatory limits.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner and 100 gram or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.