

SPECIFICATION

Product Name: Potassium Chloride IP Grade
Chemical Formula: KCL
CAS Number: 7447-40-7
Molecular Weight: 74.55 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification A) Potassium Salt B) Chlorides	- -	Complies Complies	A) A yellow or orange ppt formed B) A white curdy ppt form
Alkalinity/ Acidity	-	Complies	NMT 0.5 ml of 0.1 M NaOH or 0.01 M HCL is required
Appearance	-	Complies	Solution A is clear and colourless
Arsenic	PPM	Complies	Max. 1 PPM
Barium	-	Complies	To pass test
Heavy metals	PPM	Complies	Max. 10 PPM
Calcium and Magnesium	-	Complies	To passes test
Iron	PPM	Complies	Max. 20 PPM
Bromide	%	Complies	Max. 0.1%
Iodies	-	Complies	The substances shows no blue colour after 5 minutes
Sulfate	PPM	Complies	Max. 300 PPM
Loss on drying	%	0.37%	Max. 1%

Assay	%	99.58%	99.0% - 100.5%
Aluminium	PPM	Complies	Max. 1 PPM
Sodium	%	Complies	Max. 0.1%

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in acetone.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry place at 15–30°C. Protect from moisture, excessive humidity, and contamination. Keep the container tightly closed in the original, properly labeled container and store in a well-ventilated area away from incompatible materials to maintain product quality and stability.

Applications

- Use: Widely used as a source of potassium in pharmaceutical and nutraceutical formulations. It is commonly used for the prevention and treatment of hypokalemia (low blood potassium levels) and to help maintain normal electrolyte balance, nerve impulse transmission, muscle function, and cardiac function.
 - Dosage: Depends on the therapeutic indication, patient age, serum potassium concentration, kidney function, and route of administration.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner and 100 Grams 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.