

SPECIFICATION

Product Name: Potassium Citrate IP Grade
Chemical Formula: $C_6H_5K_3O_7 \cdot H_2O$
CAS Number: 6100-05-6
Molecular Weight: 306.39 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
Identification:			
A) chemical Test	-	Complies	A yellow or orange yellow precipitate is produced immediately.
B) Chemical Test	-	Complies	A white precipitate soluble in 6 M acetic acid is produced.
Appearance of solution	-	Complies	Solution A is clear and colourless.
Acidity or Alkalinity	-	Complies	The colour of the solution changes.
Arsenic	PPM	<2 PPM	NMT 2 PPM
Heavy Metals	PPM	<10 PPM	NMT 10 PPM
Sodium	%	0.13%	NMT 0.3%
Chlorides	PPM	<100 PPM	NMT 100 PPM
Oxalate	PPM	<300 PPM	NMT 300 PPM
Sulphates	PPM	<150 PPM	NMT 150 PPM
Readily carbonizable substances	-	Complies	The solution is not more intensely coloured than reference solution YS2 or GYS2.

Water	%	5.51%	4.0% - 7.0%
Assay (on anhydrous basis)	%	99.70%	99.0% to 101.0%

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in methanol. Insoluble in acetone. Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, moisture-resistant container in a cool, dry, and well-ventilated place, protected from moisture, heat, direct sunlight, and contamination.

Applications

- Use: Widely used as a urinary alkalizing agent, potassium supplement, buffering agent, electrolyte replenisher, and pH regulator in pharmaceutical, nutraceutical, and laboratory applications.
- Dosage: Depends on the indication, serum potassium level, urinary citrate level, and the patient's clinical condition.

Packaging

- Standard Packing: 25 Kgs pp bag with inner liner 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.