

SPECIFICATION

Product Name: Potassium Citrate Food Grade
Chemical Formula: $K_3C_6H_5O_7$
CAS Number: 6100-05-6
Molecular Weight: 324.41 g/mol
Appearance: White granular powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification: A. Potassium B. Citrate	- -	Complies Complies	A. The solution give the positive test. B. The solution give the positive test.
Heavy metals (as pb)	PPM	Complies	NMT 10 PPM
Alkalinity	-	Complies	No pink colour is produced.
Arsenic	PPM	Complies	NMT 3 PPM
Loss on drying	%	4.36%	3.0% - 6.0%
Assay	%	99.73%	NLT 99.0%

Physical Properties

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

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep the container tightly closed to protect from moisture. Store away from excessive heat, humidity, and direct sunlight in the original, properly labeled container to maintain product quality and stability.

Applications

- Use: Widely used as a buffering agent, acidity regulator, sequestrant, and source of potassium in food, beverage, pharmaceutical, and nutraceutical formulations. It helps control pH, improve product stability, enhance flavor, and prevent mineral precipitation. It is commonly used in beverages, processed foods, dietary supplements, and electrolyte formulations.

-Dosage: Depends on the intended application and formulation. In food and beverage products, it should be used according to product formulation requirements and applicable food regulations. In dietary supplements and pharmaceutical products, the appropriate dosage depends on the potassium content, intended use, age, and individual health needs, and should be used as directed by the product formulation or a qualified healthcare professional.

Packaging

- Standard Packing: 25 Kgs woven 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.