



TECHNICAL DATA SHEET

Product Information

- **Product Name:** Potassium Ascorbate
- **Chemical Name:** Potassium L-ascorbate
- **CAS No.:** 15421-15-5
- **E Number:** E303
- **Molecular Formula:** C₆H₇KO₆
- **Molecular Weight:** 214.21
- **Appearance:** White to slightly yellow crystalline powder
- **Odor:** Odorless or slight characteristic odor

Specifications

Appearance		White or yellowish crystalline powder
Assay of ascorbate ion	≥%	81.8-82.5
Assay of potassium	≥%	17.5-18.2
Specific optical rotation		+93° - +103°
pH (10% solution)		7.0-8.0
Lose on drying (2h@150°C)	≤%	0.25
Alkalinity		Pass test
Arsenic	≤%	0.0003
Lead	≤%	0.0001
Heavy metals (as Pb)	≤%	0.002

Function & Properties

Potassium Ascorbate is a mineral salt of ascorbic acid (Vitamin C) and potassium. It acts as:

- **Antioxidant**
- **Nutritional supplement (Vitamin C source)**
- **Acidity regulator**
- **Color stabilizer**

Compared to ascorbic acid, it is less acidic and more suitable for formulations requiring neutral pH.

Applications

Food Industry

- Processed meats (color preservation, anti-oxidation)
- Beverages (vitamin fortification)
- Bakery products (dough improver)
- Dairy and functional foods

Nutritional Supplements

- Used in tablets, capsules, and powders as a buffered Vitamin C source

Pharmaceutical Industry

- Antioxidant in formulations
- Immune-support products

Usage Levels

- Typically used according to **GMP (Good Manufacturing Practice)**
- Dosage depends on application and regulatory limits

Packaging

- 25 kg fiber drum or kraft paper bag with inner PE liner
- Customized packaging available

Storage

- Store in a cool, dry, and well-ventilated place
- Protect from light and moisture
- Keep container tightly closed

Shelf Life

- 24 months under recommended storage conditions

Safety & Handling

- Non-toxic under normal conditions
- Avoid inhalation of dust
- Use protective equipment when necessary