

TECHNICAL DATA SHEET (TDS)

Sodium Ascorbate

Product Information

Item	Description
Product Name	Sodium Ascorbate
Synonym	L-Ascorbic Acid Sodium Salt
CAS No.	134-03-2
Molecular Formula	C ₆ H ₇ NaO ₆
Molecular Weight	198.11
E Number	E301
Standard	BP 2015 / USP 38
Appearance	White to yellowish crystalline powder

Typical Technical Specifications

Parameter	Specification
Appearance	White to yellowish crystalline powder
Identification	Complies with BP/USP
Assay	99.0% – 101.0%
Specific Optical Rotation	+103° to +108°
pH (10% Solution)	7.0 – 8.0
Loss on Drying	≤0.25%
Heavy Metals	≤10 ppm
Oxalic Acid	≤0.2%
Copper	≤5 ppm
Iron	≤2 ppm
Arsenic (As)	≤3 mg/kg
Lead (Pb)	≤0.2 mg/kg
Mercury (Hg)	≤0.1 mg/kg
Organic Volatile Impurities	Complies

Functional Properties

Excellent source of Vitamin C

Mild, non-acidic form of Vitamin C

High water solubility

Good stability during formulation

Suitable antioxidant for food and beverage applications

Helps protect products against oxidation

Provides nutritional fortification

Applications

Dietary supplements

Functional foods

Beverage formulations

Infant nutrition

Pharmaceutical preparations

Food antioxidant systems

Meat processing

Bakery products

Packaging

Net Weight: 25 kg per fiber drum/carton with inner PE bag

Packaging can be customized upon request.

Storage

Store in a cool, dry and well-ventilated place.

Keep the container tightly closed.

Protect from moisture, direct sunlight and excessive heat.

Shelf Life

24 months when stored under recommended conditions in the original unopened package.

Regulatory Standard

Manufactured in accordance with:

BP 2015

USP 38

Food Additive Standard E301