Vitamin C

$C_6H_8O_6$ · CAS 50-81-7 · L-ascorbic acid, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
L-ascorbic acid, crystalline	$C_6H_8O_6$	50-81-7	99.0–100.5% (iodometric titration)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Iodometric titration and HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

L-ascorbic acid specified at 99.0–100.5% by iodometric titration, for capsules, tablets, powder sticks and beverages where the label needs a defined vitamin C form.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (as $C_6H_8O_6$)	99.0–100.5% (iodometric titration)	As stated
Appearance	White to off-white crystals or crystalline powder	As stated
Identification	IR and UV conform	As stated
Specific rotation	+20.5° to +21.5° (10% solution)	As stated
pH (5% solution)	2.1–2.6	As stated
Loss on drying	≤0.5%	As stated
Residue on ignition	≤0.1%	As stated
Oxalic acid	≤0.2%	As stated
Iron / copper	Fe ≤2 ppm · Cu ≤5 ppm	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker set	L-ascorbic acid (99.0–100.5%), E300	Identity
Solubility	Freely soluble in water; the 5% solution is acidic (pH 2.1–2.6).	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Functional beverages

AVAILABLE FORMS

- Crystalline powder, 40 mesh
- Fine powder, 80 mesh
- Coated grade on request

- Gummies and chews
- Sodium ascorbate on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

Shaanxi Rainwood Biotech Co., Ltd. · Rm 218, Tangxing Digital Bldg, #6 Tangxing Rd, Xi'an, Shaanxi, China
info@rainwoodbio.com · nutrition.rainwoodbio.com