

Product Datasheet

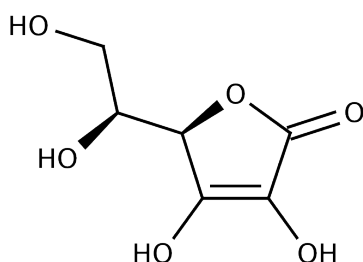
GV5017 - L-(+)-Ascorbic acid

Product Details

Product Name	L-(+)-Ascorbic acid
Glenthams Code	GV5017
CAS Number	50-81-7
EINECS	200-066-2
MDL Number	MFCD00064328
PubChem SID	310267041
Related Categories	Biochemicals, Vitamins, Analytical Reagents, Reagents for Cell Culture

Structure

Molecular Weight	: 176.12
Molecular Formula	: C ₆ H ₈ O ₆



Storage

Recommended storage temperature: +20°C.

Hazards and Transport

Not classified as hazardous under CLP.
Not classified as dangerous for transport.

Glenthams Product Specification

Physical Description : White crystalline powder

Melting Point	: 190 - 192 °C
pH	: 2.2 - 2.5 (5% solution)
Heavy Metals	: ≤ 0.0005%
Iron (Fe)	: ≤ 2ppm
Copper (Cu)	: ≤ 3ppm
Oxalic Acid	: ≤ 0.2%
Sulphated Ash	: ≤ 0.1%
Specific Optical Rotation	: 20.5 - 21.5 °
Residual Solvents	: ≤ 3000ppm
Total Plate Count	: ≤ 1000CFU/g
Yeast Mould	: ≤ 100CFU/g
Assay	: 99.0 - 100.5 %
Pharmacopoeia Specification(s)	: USP / BP / EP
Version	: v1.0

About L-(+)-Ascorbic acid

Commonly known as vitamin C, L-ascorbic acid is a lactone found in plants. Classified as an essential nutrient, humans cannot synthesise L-ascorbic acid. The biosynthetic pathway in plants varies across species. L-Ascorbic acid also functions as a cofactor for enzymes involved in photosynthesis, synthesis of hormones and as an antioxidant.

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