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Product Datasheet

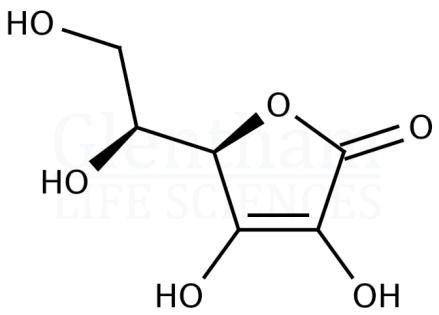
GV5017 - L-(+)-Ascorbic acid

Product Details

Product Name	L-(+)-Ascorbic acid
Glentham 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	:	$C_6H_8O_6$



Storage

Recommended storage temperature: +20°C.

Hazards and Transport

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

Glentham Product Specification

Physical Description	:	White crystalline powder
Melting Point	:	190 - 192 °C
pH	:	2.2 - 2.5
Heavy Metals	:	≤ 0.0010%
Iron	:	≥ 2ppm
Copper (Cu)	:	≥ 5ppm
Oxalic Acid	:	≤ 0.2%
Sulphated Ash	:	≤ 0.1%
Specific Optical Rotation ([α]20/D)	:	+20.5 - +21.5 °
Residual Solvents	:	≤ 3000ppm
Related Substances	:	Impurity C ≤ 0.15%
	:	Impurity D ≤ 0.15%
	:	Impurity E ≤ 0.2%
Assay	:	99.0 - 100.5 %
Pharmacopoeia Specification(s)	:	USP / BP / EP
Version	:	v1.1

About L-(+)-Ascorbic acid

Commonly known as vitamin C, L-ascorbic acid is a lactone found in plants. Classed 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.