

## Product Datasheet

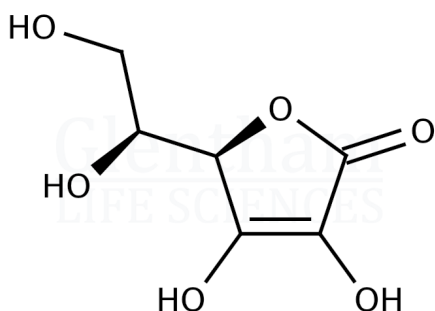
### GV5017 - L-(+)-Ascorbic acid

#### 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 :  $C_6H_8O_6$



#### 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
Heavy Metals	: ≤ 0.0010%
Iron	: ≥ 2ppm
Copper (Cu)	: ≥ 5ppm
Oxalic Acid	: ≤ 0.2%
Sulphated Ash	: ≤ 0.1%
Specific Optical Rotation ([α] <sub>20/D</sub> )	: +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. 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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