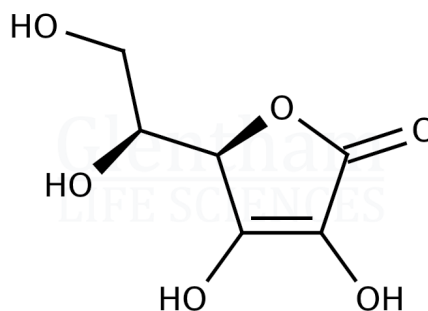


Certificate of Analysis

Product Name	L-(+)-Ascorbic acid, 99.5%, BP, Ph. Eur., USP grade
Glenthams Code	GV9871
CAS Number	50-81-7
EINECS	200-066-2
MDL Number	MFCD00064328
Batch Number	027VTD

Molecular Weight	176.12
Molecular Formula	C ₆ H ₈ O ₆
Storage Temp.	+20°C



Property	Specification	Batch 027VTD
Physical Description	White or almost white crystalline powder, or colourless crystals	White crystalline powder
Identification	Conforms to latest BP, Ph. Eur., USP	Conforms
Solubility (5% in water)	Clear, colourless solution (colour ≤ BY7)	Conforms
pH (5% in water)	2.1 - 2.6	2.5
Melting Point	Approx. 190°C	190.2 °C
Specific Optical Rotation	+20.5 - +21.5 °	+21.4°
Impurity E	≤ 0.2%	Conforms
Impurity C	≤ 0.15%	Conforms
Impurity D	≤ 0.15%	Conforms
Any Unspecified Impurity	≤ 0.10%	Conforms
Total Impurities	≤ 0.2% (excluding C and D)	Conforms
Copper (Cu)	≤ 5ppm	≤ 5ppm
Iron (Fe)	≤ 2ppm	≤ 2ppm
Heavy Metals	≤ 10ppm	≤ 5ppm
Arsenic (As)	≤ 3ppm	≤ 1ppm
Lead (Pb)	≤ 2ppm	≤ 2ppm
Mercury (Hg)	≤ 1ppm	≤ 0.1ppm
Sulphated Ash	≤ 0.1%	Conforms
Loss on Drying	≤ 0.2%	Conforms
Assay	99.5 - 100.5 % (C ₆ H ₈ O ₆ , as-is basis)	99.9%
Pharmacopoeia Specification(s)	Conforms BP, Ph. Eur., USP	Conforms

Specification Version	v1.0
Manufacture Date	2022-03-06
Re-Test Date	2031-03-01

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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