

## Product Datasheet

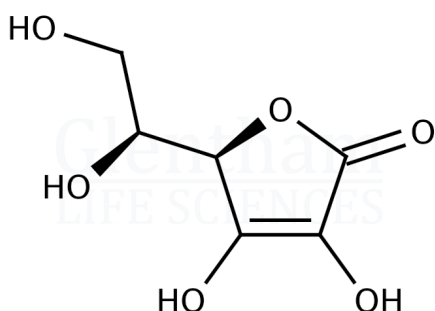
### GV9871 - L-(+)-Ascorbic acid, 99.5%, BP, Ph. Eur., USP grade

#### Product Details

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
Related Categories	Biochemicals, Vitamins, Analytical Reagents, Reagents for Cell Culture

#### Structure

Molecular Weight	: 176.12
Molecular Formula	: C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>



#### 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 or almost white crystalline powder, or colourless crystals
Identification	: Conforms to latest BP, Ph. Eur., USP
Solubility (5% in water)	: Clear, colourless solution (colour ≤ BY7)
pH (5% in water)	: 2.1 - 2.6
Melting Point	: Approx. 190°C
Specific Optical Rotation	: +20.5 - +21.5 °
Impurity E	: ≤ 0.2%
Impurity C	: ≤ 0.15%
Impurity D	: ≤ 0.15%
Any Unspecified Impurity	: ≤ 0.10%
Total Impurities	: ≤ 0.2% (excluding C and D)
Copper (Cu)	: ≤ 5ppm
Iron (Fe)	: ≤ 2ppm
Heavy Metals	: ≤ 10ppm
Arsenic (As)	: ≤ 3ppm
Lead (Pb)	: ≤ 2ppm
Mercury (Hg)	: ≤ 1ppm
Sulphated Ash	: ≤ 0.1%
Loss on Drying	: ≤ 0.2%
Assay	: 99.5 - 100.5 % (C <sub>6</sub> H <sub>8</sub> O <sub>6</sub> , as-is basis)
Pharmacopoeia Specification(s)	: Conforms BP, Ph. Eur., USP
Version	: v1.0

### About L-(+)-Ascorbic acid, 99.5%, BP, Ph. Eur., USP grade

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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