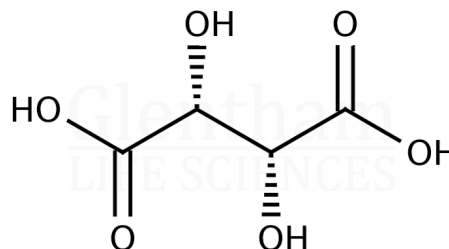


## Certificate of Analysis

Product Name L-Tartaric acid  
Glenthams Code GK7799  
CAS Number 87-69-4  
EINECS 201-766-0  
MDL Number MFCD00064207  
PubChem SID 310280492  
Batch Number 193QPE

Molecular Weight 150.09  
Molecular Formula  $C_4H_6O_6$   
Storage Temp. +20°C



Property	Specification	Batch 193QPE
Physical Description	Colourless crystals or white powder	White crystalline powder
Identification	According to BP, EP	Conforms
Solubility (5% in water)	Clear, colourless solution	Conforms
Specific Optical Rotation	12.0 - 12.8 °	Conforms
Oxalic Acid	≤ 100ppm	Conforms
Chlorides	≤ 100ppm	Conforms
Sulphates	≤ 150ppm	Conforms
Calcium (Ca)	≤ 200ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Loss on Drying	≤ 0.2%	Conforms
Sulphated Ash	≤ 0.05%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Lead (Pb)	≤ 2ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 1ppm	Conforms
Assay	99.7 - 100.5 % (dried basis)	Conforms
Pharmacopoeia Specification(s)	BP, EP	Conforms

Specification Version v1.1  
Manufacture Date 2021-06-01  
Re-Test Date 2030-10-15

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](http://www.glenthams.com) or contact us using the details above for the current version of this document.

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