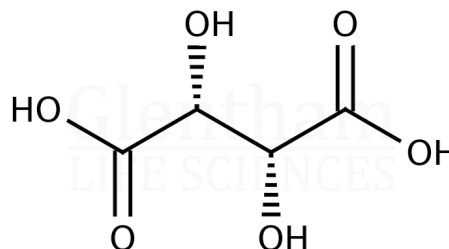


Certificate of Analysis

Product Name L-Tartaric acid
Glentham 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

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

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