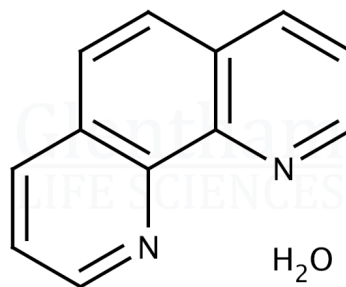


Certificate of Analysis

Product Name 1,10-Phenanthroline monohydrate
Glenthams Code GE7007
CAS Number 5144-89-8
EINECS 200-629-2
MDL Number MFCD00149973
PubChem SID 310278693
Additional CAS 66-71-7 (anhydrous)
Batch Number 705JPB

Molecular Weight 198.23
Molecular Formula $C_{12}H_8N_2 \cdot H_2O$
Storage Temp. +20°C



Property	Specification	Batch 705JPB
Physical Description	White to almost white crystalline powder or crystals	Almost white crystals
Identification (IR)	To conform to standard	Conforms
Solubility (10% in ethanol)	Clear to faintly turbid, colourless to faint yellow solution	Clear, colourless solution
Melting Point	98.0 - 104.0 °C (clear melt)	102.9°C
Water	8.5 - 10.5 %	9.6%
Assay (Titration)	≥ 99.0%	99.5%

Specification Version v1.2
Manufacture Date 2023-05-20
Re-Test Date 2031-06-30

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.

This document was generated electronically and is therefore valid without signature. © Glenthams Life Sciences Ltd, 2024