

Product Datasheet

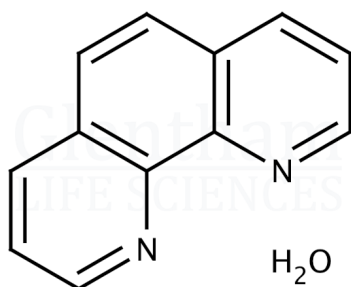
GE7599 - 1,10-Phenanthroline monohydrate, ACS grade

Product Details

Product Name	1,10-Phenanthroline monohydrate, ACS grade
Glentham Code	GE7599
CAS Number	5144-89-8
EINECS	200-629-2
MDL-Nummer	MFCDD00149973
Zusätzliche CAS	66-71-7 (anhydrous)
Related Categories	Biochemicals, Analytical Reagents

Structure

Molecular Weight	: 198.23
Molecular Formula	: $C_{12}H_8N_2 \cdot H_2O$



Precautionary Codes

P273, P264, P301+P310

Pictograms



UN Number, Class, PG (RID)

UN2811 - 6.1 - PG III

Glentham Product Specification

Physical Description	: White to almost white crystalline powder or crystals
Solubility (10% in ethanol)	: Clear and colourless solution
Melting Point	: $\geq 98.0^{\circ}\text{C}$
Suitability as redox indicator	: According to ACS
Suitability for Iron Determination	: According to ACS
Assay (dried basis)	: $\geq 99.0\%$
Version	: v1.0

About 1,10-Phenanthroline monohydrate, ACS grade

Heterocyclic organic compound found as white to off-white crystals. Soluble in organic solvents, it forms strong complexes with most metal ions. Inhibitor of metalloproteinases (mainly zinc). Phenanthroline is used in titrations to detect alkyllithium reagents. Monohydrochloride salt as a monohydrate, and base hydrate form also available.

Storage

Recommended storage temperature: $+20^{\circ}\text{C}$.

Hazards and Transport

CLP Classification	Aquatic Chronic 1, Acute Tox. 3
Signal Word	Gefahr
Hazard Codes	H410, H301

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025