

## Product Datasheet

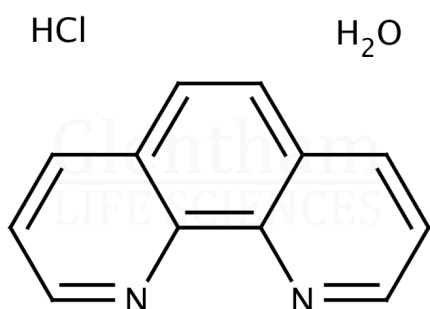
### GA0090 - 1,10-Phenanthroline hydrochloride monohydrate

#### Product Details

Product Name	1,10-Phenanthroline hydrochloride monohydrate
Glenthams Code	GA0090
CAS Number	18851-33-7
EINECS	223-325-1
MDL Number	MFCD00150061
Additional CAS	3829-86-5
PubChem SID	310278692
Related Categories	Antibiotics, Biochemicals, Antimicrobials

#### Structure

Molecular Weight	: 234.68
Molecular Formula	: $C_{12}H_8N_2 \cdot HCl \cdot H_2O$



#### Storage

Recommended storage temperature: +20°C.

#### Hazards and Transport

CLP Classification	Aquatic Chronic 1, Acute Tox. 3, Aquatic Acute 1
Signal Word	Danger

Hazard Codes	H410, H301, H400
Precautionary Codes	P305+P351+P338, P273, P261, P301+P312

#### Pictograms



UN Number, Class, PG (RID)	UN2811 - 6.1 - PG III
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#### Glenthams Product Specification

Physical Description	: White to off-white crystalline powder or crystals
Solubility (10% in water)	: Clear to very faintly turbid, colourless to very faint yellow solution
Loss on Drying	: ≤ 8.0%
Assay	: ≥ 99.0% (C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> · HCl · H <sub>2</sub> O)
Version	: v1.1

#### About 1,10-Phenanthroline hydrochloride monohydrate

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 alkyl lithium reagents. Monohydrochloride monohydrate and anhydrous base forms are commercially available.

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