

Product Datasheet

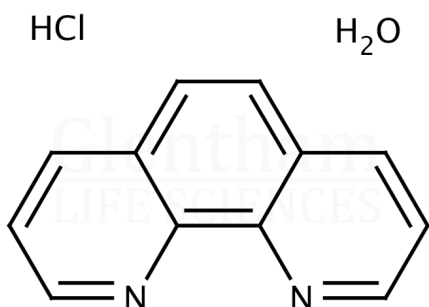
GA0090 - 1,10-Phenanthroline hydrochloride monohydrate

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 |
|-------------------------------|-----------------------|

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% ($C_{12}H_8N_2 \cdot HCl \cdot H_2O$) |
| 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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