

## Product Datasheet

### GE7599 - 1,10-Phenanthroline monohydrate, ACS grade

Precautionary Codes

P273, P264, P301+P310

Pictograms



#### Product Details

UN Number, Class, PG (RID)

UN2811 - 6.1 - PG III

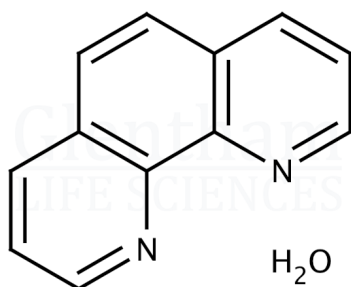
|                    |                                            |
|--------------------|--------------------------------------------|
| Product Name       | 1,10-Phenanthroline monohydrate, ACS grade |
| Glenthams Code     | GE7599                                     |
| CAS Number         | 5144-89-8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

#### Glenthams 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                                                 |

#### Structure

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Molecular Weight  | : 198.23                                                       |
| Molecular Formula | : $\text{C}_{12}\text{H}_8\text{N}_2 \cdot \text{H}_2\text{O}$ |



#### 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 alkyl lithium 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        | Danger                          |
| Hazard Codes       | H410, H301                      |

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