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Product Datasheet

GE7007 - 1,10-Phenanthroline monohydrate

Product Details

1,10-Phenanthroline **Product Name**

monohydrate

Glentham Code GE7007 **CAS Number** 5144-89-8 **EINECS** 200-629-2

MDL Number MFCD00149973

PubChem SID 310278693

Additional CAS 66-71-7 (anhydrous) **Related Categories** Biochemicals, Analytical

Reagents

Structure

Molecular Weight : 198.23

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

 H_2O

Hazard Codes H410, H301, H400 **Precautionary Codes** P273, P264, P270

Pictograms

UN Number, Class, PG UN2811 - 6.1 - PG III

(RID)

Glentham Product Specification

White to almost white crystalline Physical

Description powder or crystals

Identification (IR): To conform to standard

Clear to faintly turbid, colourless to faint yellow solution Solubility (10% in :

ethanol)

: 98.0 - 104.0 °C (clear melt) Melting Point

: 8.5 - 10.5 % Water Assay (Titration) : ≥ 99.0% Version : v1.2

About 1,10-Phenanthroline 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 metallopeptidases (mainly zinc). Phenathronline is used in titrations to detect alkyllithium reagents. Monohydrochloride salt as a monohydrate, and base hydrate form also available.

Storage

Recommended storage temperature: +20°C.

Hazards and Transport

CLP Classification Aquatic Chronic 1, Acute

Tox. 3, Aquatic Acute 1

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

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