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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 Number MFCD00149973
Additional CAS 66-71-7 (anhydrous)

Related Categories Biochemicals, Analytical

Reagents

Structure

Molecular Weight : 198.23

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

N H₂O

Storage

Recommended storage temperature: +20°C.

Hazards and Transport

CLP Classification Aquatic Chronic 1, Acute

Tox. 3

Signal Word Danger Hazard Codes H410, H301 Precautionary Codes P273, P264, P301+P310

Pictograms

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

(RID)

Glentham Product Specification

Physical : White to almost white crystalline

Description powder or crystals

Solubility (10% in : Clear and colourless solution ethanol)

Melting Point : ≥ 98.0°C

Suitability as redox indicator

: According to ACS

Suitability for : According to ACS

Iron Determination

Assay (dried : ≥ 99.0%

basis)

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 metallopeptidases (mainly zinc). Phenathronline is used in titrations to detect alkyllithium reagents.

Monohydrochloride salt as a monohydrate, and base

hydrate form also available.

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