

Product Specification

Product Name: 1,10-PHENANTHROLINE Monohydrate AR

Alternate Name(s)

Alternate Name(S)

Description

White crystalline powder.

Phenanthroline hydrate; 4,5-phenanthroline; o-phenanthroline monohydrate; orthophenanthroline monohydrate; 4,5-diazaphenanthrene monohydrate.

Properties

 $Chemical \ Formula: \qquad C_{12}H_8N_2 {}^{\bullet}H_2O$

Molecular Weight: 198.22

General Information:

Soluble in alcohol, benzene and acetone. Incompatible with strong oxidisers.

Quality Specification

Assay: 99.5 % min.

Specific Properties and Impurities [Typical levels]:

Solubility in Water Soluble in 300

parts water.

Sensitivity to iron 1:10,000,000

Melting Point 101-102 °C

Suitability as redox indicator Passes test

Suitability for determining iron Passes test

Solubility (1g in 10ml ethanol) Clear & colourless

Hazard and Safety Data

Product Code:

CAS No.

UN Group: None Allocated
Class: None Allocated
UN Number: None Allocated
Hazchem code: None Allocated

PA180

5144-89-8

CS MSDS Code: 1CHJF

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

CONFORMS TO ACS

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