

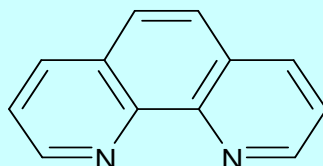


SDFCL
s d fine-CHEM limited
Quality Control Dept.



Product Specification

E Control	QC2\DATAD\ID\PS\20187XPS.xls
PRODUCT CODE	20187
PRODUCT NAME	1,10-PHENANTHROLINE (MONOHYDRATE) AR (R.I.)
SYNONYMS	(o-Phenanthroline)
C.I. NO.	--
CASR NO.	(5144-89-8)
ATOMIC OR MOLECULAR FORMULA	C ₁₂ H ₈ N ₂ .H ₂ O
ATOMIC OR MOLECULAR WEIGHT	198.22
PROPERTIES	--



PARAMETER	LIMIT
Description	White crystals or crystalline powder, becoming cream coloured on storage.
Solubility	Slightly soluble in water, soluble in ethanol.
Minimum Assay (Non- aqueous)	99.5%
Melting Point	Not below 98 °C
Minimum Sensitivity as Reagent for Iron	Equivalent to a molar absorptivity of 11,700 for the ferrous complex.
Sensitivity as Redox Indicator	Passes test.
Solution	Passes test.
Sulphated ash	Max. 0.05%

MAXIMUM LIMIT OF IMPURITIES

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Note(s) : Assay (if applicable) method mentioned.

DANGER

Hazard statements : Toxic if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response :IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician. Rinse mouth. Collect spillage.

Disposal : The chemical should be mixed combustible solvent and burnt in a chemical incinerator equipped with burner and scrubber.

IMDG Code : 6.1/III

UN No. : 2811

IATA : 6.1

Hazard Pictogram(s) :



Acute toxicity



Aquatic environment

Prepared By :	Checked By:	Approved By:	Issue Date : 01.07.2002
Name/Dept. : Officer (Q.A.)	Name/Dept.:Incharge(Q.A.)	Name/Dept. : Incharge (Tech.)	Revision No.: 02
Sign. :	Sign. :	Sign. :	Revision dt. : 02.04.2010
Date : 01.04.2010	Date : 01.04.2010	Date : 02.04.2010	AMEND NO. : 1554

