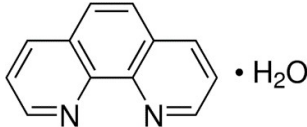






1,10-PHENANTHROLINE (MONOHYDRATE) AR REDOX INDICATOR

PRODUCT CODE	R01927	
SYNONYMS	(o-Phenanthroline)	
C.I. NO.	--	
CASR NO.	(5144-89-8)	
ATOMIC ORMOLECULAR FORMULA	$C_{12}H_8N_2 \cdot H_2O$	
ATOMIC ORMOLECULAR WEIGHT	198.23	
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.	
MAXIMUM LIMIT OF IMPURITY		
Sulphated ash	0.05%	
Note(s) : Assay (if applicable) method mentioned.		
DANGER		IMDG Code : 6.1/III UN No. 2811 IATA : 6.1
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		
Hazard Pictogram(s) :		
 		
GHS06 GHS09		

Replace Date 1 April 2023