



UNISOURCE CHEMICALS PRIVATE LIMITED

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AN ISO 9001:2015 & GMP CERTIFIED COMPANY

Product Information

TECHNICAL DATA SHEET / Specification Sheet

1,10-Phenanthroline monohydrate

Synonym	: o-Phenanthroline monohydrate
Molecular Formula	: C ₁₂ H ₈ N ₂ .H ₂ O
Molecular Weight	: 198.22
CAS No	. : 5144-89-8
Shelf Life	:5 years

Technical Specification

Appearance	: White to off-white crystals or powder or needle-like crystals (May become cream coloured during storage)
Solubility	: 33.3 mg soluble in 1 mL of alcohol
Melting range	: 97 - 104°C
Suitability as redox indicator	: Passes test
Suitability for determining iron	: Passes test
Water (K.F.)	: 8.00 - 10.00%
Assay (NT, on anhydrous basis)	: 99.50 - 102.00%