



CERTIFICATE OF ANALYSIS

**PRODUCT NAME : 1,10-PHENANTHROLINE AR MONOHYDRATE
REDOX INDICATOR**

CAS No	: 5144- 89- 8	Product code	: 24640
Mol. Formula	: C₁₂H₈N₂.H₂O	Batch No	: MCR-22908
Mol. WT	: 198.23	Mfd.	: Feb. 2021
Date of analysis	: 25/02/21	Exp.	: Jan. 2026

S. R.	Test	Specification	Observation
1	Description	White to off white or beige crystals or needles or crystalline powder, becoming cream coloured on storage.	Off White needles.
2	Assay	99.5% min	99.83%
3	Water	8.8 – 9.5%	8.90%
4	Sensitivity as reagent for iron	1:10,000,000 min.	>1:10,000,000
5	Sensitivity as redox indicator	passes test	passes test
6	Melting point	100 -104 ⁰ C	103.2 ⁰ C
7	Sulphated ash	0.05% max	0.03%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

[QC Incharge]

**HEAD-QUALITY ASSUARANCE
(G.G.Salian)**

Note: Computer generated image requires no sign.

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