



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-21401
Mol. WT : 198.23 Mfd. : June 2020
Date of analysis : 14/06/20 Exp. : May 2025

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	99.69%
3	Water	8.8 – 9.5%	8.84%
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	100.7 ⁰ C
7	Sulphated ash	0.05% max	0.02%

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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