



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- 27508
Mol. WT	: 198.23	Mfd. : Jan. 2023
Date of analysis	: 22/01/23	Exp. : Dec. 2027

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	99.72%
3	Water	8.8 – 9.5%	9.28%
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	103.4 ⁰ C
7	Sulphated ash	0.05% max	0.03%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

**CHEMIST
(Jyoti)**

[QC Incharge]

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

Note: Computer generated image requires no sign.

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