

CERTIFICATE OF ANALYSIS

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

CAS No	: 5144- 89- 8	Product code	: 24640
Mol. Formula	: C ₁₂ H ₈ N ₂ .H ₂ O	Batch No.	: MCR-32943
Mol. WT	: 198.23	Mfd.	: Jan. 2025
Date of analysis	: 16/01/25	Exp.	: Dec. 2029

S.R.	Test	Specification	Observation
1	Description	White to off white or beige crystals or needles or crystalline powder, becoming cream coloured on storage.	White needles.
2	Assay	99.5% min	99.55%
3	Water	8.8 – 9.5%	9.41%
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	103.5 ⁰ C
7	Sulphated ash	0.05% max	0.03%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]



**CHEMIST
(Durvas)**



[QC Incharge]



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

MOLYCHEM H.Q. : Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)

Tel. : +91 22 4066 8111 • Email: info@molychem.net • Web: www.molychem.net

Reg. Office : 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai - 400 002 (INDIA)

Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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