

Tangshan Moneide Trading Co., Ltd.

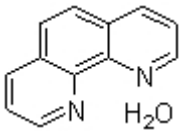


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CERTIFICATE OF ANALYSIS

Date of Report: March. 2, 2016

Product Name 1,10-Phenanthroline monohydrate	Structure
CAS No. 5144-89-8	
Molecular Formula C ₁₂ H ₈ N ₂ .H ₂ O	
Molecular Weight 198.22	
Batch No. 20160302	
Quantity 100kg	

This is to certify that our inspection result of above-mentioned product is as follows:

No.	Items	Specifications	Results
1	Appearance	White crystal	Complies
2	Assay	99.0% min.	99.2%
3	Dissolution test in ethanol	Pass	Qualified
4	Residue on ignition (as Sulfate)	0.1% max.	0.06%
5	Iron complex compound molar absorption coefficient(L/cm.mol)	1.15X 10 ⁴ min	Qualified
6	Water	8.5-10.0%	9.1%
	Conclusion	Qualified	