

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by ICG. Certificate Number. 110212Q

Catalogue Number	A13163
Lot Number	62500502
Description	1,10-Phenanthroline, 99%, may contain up to 1.5% water
CAS Number	66-71-7
Quality Test/Release Date	28/Aug/2025
Suggested retest date	28/Aug/2030
Country of Origin	CHINA
Declaration of Origin	Synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Assay (Non-aqueous acid-base Titration)	%	≥98.5 to ≤101.5% (dry wt. basis)	99.2
Appearance (Color)		White to cream	White
Form		Crystals or powder or crystalline powder or flakes	Crystals or powder or crystalline powder or flakes
Identification (FTIR)		Conforms	Conforms
Water Content (Karl Fischer Titration)	%	≤1.5%	0.93
Melting Point (clear melt)	°C	113.0-121.0°C	118.9



Ronald Becht
Technical Support Manager

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.