

**CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global Certificate Number. CERT-0120633

Catalogue Number BP1160  
 Lot Number 262019  
 Description N,N-DIMETHYLFORMAMIDE, SEQUA - SYNTHESIS GRADE  
 CAS Number 68-12-2  
 Quality Test/Release Date 26/May/2026  
 Expiration Date 15/Apr/2031  
 Country of Origin United States  
 Declaration of Origin Organic - synthetic  
 BSE/TSE No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
AMINES	ppm	<= 10	2
ASSAY	%	>= 99.5	99.9
COLOR	APHA	<= 15	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.942 - 0.946	0.944
EVAPORATION RESIDUE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABSORBANCE	PASS/FAIL	= PASS TEST	PASS TEST
TITRATABLE ACID	MEQ/G	<= 0.0005	0.0001
TITRATABLE BASE	MEQ/G	<= 0.003	0.001
WATER (H2O)	%	<= 0.03	0.02



Ash Frey  
Supervisor, Quality Control

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 use or further manufacturing. 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.