

## **CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	12514		
Lot Number	A0457755		
Description	Levulinic acid,98+%		
CAS Number	123-76-2		
Quality Test/Release Date	15/Nov/2024		
Suggested retest date	15/Nov/2026		
Country of Origin	CHINA		
Declaration of Origin	synthetic		
Result Name	Units	Specifications	Test Value
		Colorloop to white to vollow to	
Appearance (Color)		Colorless to white to yellow to orange	Yellow
			Yellow Liquid after melting or solid
Appearance (Color) Appearance (Form) Appearance		orange	
Appearance (Form)		orange Liquid after melting or solid	Liquid after melting or solid
Appearance (Form) Appearance	%	orange Liquid after melting or solid May darken on storage	Liquid after melting or solid May darken on storage

Geert Torfs Supervisor, QC

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.