

Thermo Fisher Scientific Ward Hill, MA-Sites

 30 Bond Street
 220 Neck Road
 38 Shelley Road

 Ward Hill
 Ward Hill
 Ward Hill

 MA 01835
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## **CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.

Certificate Number. 951001163

Catalogue Number 022925 Lot Number S15L713

Description 1-Butanol, HPLC Grade, 99%

CAS Number 71-36-3
Quality Test/Release Date 24/Jun/2025
Suggested retest date 24/Jun/2028
Country of Origin United States
Declaration of Origin Synthetic

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	≥99%	99.97
Optical Absorbance at	AU	215 nm: ≤1.00 AU =/-U.S. specification]	0.38
Optical Absorbance at	AU	220 nm: ≤0.50 AU =/-U.S. specification]	0.23
Optical Absorbance at	AU	240 nm: ≤0.10 AU =/-U.S. specification]	0.04
Optical Absorbance at	AU	260 nm: ≤0.04 AU =/-U.S. specification]	0.01
Optical Absorbance at	AU	280 nm: ≤0.02 AU =/-U.S. specification]	0.002
Optical Absorbance at	AU	300 nm: ≤0.01 AU =/-U.S. specification]	0.001
Residue on Evaporation	ppm	≤5ppm =/-U.S. specification]	<0.5
Water Content	%	≤0.05%	0.003

John Astarita

John Astarita Director, Quality

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.