

## 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	019376
Lot Number	U07M722
Description	Toluene, Spectrophotometric Grade, 99.7+%
CAS Number	108-88-3
Quality Test/Release Date	15/Apr/2026
Suggested retest date	15/Apr/2031
Country of Origin	United States
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
Color (APHA)	APHA	10, max	5
Assay (GC)	%	≥99.7% ( corrected for water)	>99.99
Appearance (Color)		Clear, colorless	Clear colorless
Form		Liquid	Liquid
Impurity content		P.T. substances darkened by sulfuric acid	Passes Test
Impurity content	%	0.003% Sulfur compounds ( as Sulfur)	<0.0001
Water Content (Karl Fischer Titration)	%	0.03%, max	0.001
Optical Absorbance at	AU	285nm, 1.00, max	0.50
Optical Absorbance at	AU	286nm, 0.70, max	0.33
Optical Absorbance at	AU	288nm, 0.40, max	0.16
Optical Absorbance at	AU	293nm, 0.20, max	0.07
Optical Absorbance at	AU	300nm 0.10, max	0.04
Optical Absorbance at	AU	310nm 0.05, max	0.02
Optical Absorbance at	AU	335nm 0.02, max	0.01
Optical Absorbance at	AU	350-400nm 0.01, max	350: 0.01, 400: 0.01
Residue on Evaporation	ppm	4ppm, max	<0.4



Derek Roy  
 Quality Manager, LCD

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

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.



**Thermo Fisher Scientific**  
**Ward Hill, MA-Sites**  
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MA 01835        MA 01835        MA 01835

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.

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