

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by INTERTEK SAI Global  
Certificate Number. QMS42099

Catalogue Number	T/2300
Lot Number	2538281
Description	Toluene AR For analysis
CAS Number	108-88-3
Quality Test/Release Date	15/May/2025
Expiry Phrase	Use within 5 yrs of opening
Country of Origin	United Kingdom

Result Name	Units	Specifications	Test Value
Acidity/alkalinity (meq/g)	meq/g	<= 0.0001	0.00001
Assay (GC)	%	>= 99.8	99.98
Benzene	%	<= 0.05	0.000095
Calcium (Ca)	ppm	<= 0.1	<0.02
Chemical form		Mobile liquid	Mobile liquid
Colour	APHA	<= 10	<5
Copper (Cu)	ppm	<= 0.02	<0.005
Iron (Fe)	ppm	<= 0.1	<0.01
Lead (Pb)	ppm	<= 0.02	<0.005
Magnesium (Mg)	ppm	<= 0.05	<0.01
Potassium (K)	ppm	<= 0.5	<0.01
Residue after evaporation (ppm)	ppm	<= 10	None Detected
Sodium (Na)	ppm	<= 1	<0.02
Substances darkened by H2SO4 (APHA)	APHA	<= 50	<5
Substances reducing KMnO4	%	<= 0.0005	<0.0005
Total phosphorus (P)	ppm	<= 0.1	<0.02
Total silicon (Si)	ppm	<= 0.05	<0.02
Total sulfur (S)	ppm	<= 10	<0.2
Visual colour		Clear colourless	Clear colourless
Water	%	<= 0.03	0.009
Xylenes	%	<= 0.05	0.0095
Zinc (Zn)	ppm	<= 0.05	<0.01



Ashok Ganatra  
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 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.