

## 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	019402
Lot Number	M09M704
Description	Xylenes, Semiconductor Grade
CAS Number	1330-20-7
Quality Test/Release Date	30/Sep/2025
Suggested retest date	30/Sep/2030
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	<5
Assay (GC)	%	≥99% ( sum of isomers + ethylbenzene + Toluene)	99.86
Chloride content	ppm	≤3ppm	<3
Appearance (Color)		Clear colorless	Clear colorless
Free acid (titration)	meq/g	≤0.0003meq/g (≤0.3μeq/g)	0.0001
Form		Liquid	Liquid
Impurity content	ppb	Boron, B: ≤0.1ppm (≤100ppb)	<1
Impurity content	ppm	Phosphate, PO4: ≤1ppm	<0.5
Water Content (Karl Fischer Titration)	%	≤0.02%	0.002
Residue on Evaporation	ppm	≤5 ppm	<0.5
Trace Metal	ppb	Aluminum, Al: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Arsenic, As, and Antimony, Sb (as Arsenic); ≤0.01ppm (≤10ppb)	<1
Trace Metal	ppb	Calcium, Ca: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Copper, Cu: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Iron, Fe: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Lead, Pb: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Magnesium, Mg: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Manganese, Mn: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Nickel, Ni: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Potassium, K: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Sodium, Na: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Tin, Sn: ≤0.1ppm (≤100ppb)	<1
Trace Metal	ppb	Zinc, Zn: ≤0.1ppm (≤100ppb)	<1

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.



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 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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