

Certificate of Analysis

Product: Toluene
Item Number: TOLHPLC
Grade: HPLC
Lot Number: 221219-B044351
Manufacture Date: 11/29/2022
Expiration Date: 11/28/2027
Country of Origin: United States

Tested Property	Specification	Analysis
Appearance	Clear colorless liquid	Pass
Assay by GC (Corrected for water)	Min 99.5%	99.91
Color	Max 10 APHA	1
Residue after evaporation	Max 0.001%	0.000
Substances darkened by Sulfuric Acid	Passes the test	Pass
Sulfur compounds as Sulfur	Max 0.003%	<0.0001
Benzene	Max 0.03%	0.00
Water by KF Coulometry	Max 0.03%	0.004
UV Absorbance		
@ 286 nm	Max 1.0 AU	0.55
@ 288 nm	Max 0.5 AU	0.35
@ 293 nm	Max 0.20 AU	0.19
@ 300 nm	Max 0.10 AU	0.10
@ 310 nm	Max 0.05 AU	0.05
@ 335 nm	Max 0.02 AU	0.02
@ 350 nm	Max 0.01 AU	0.01
@ 400 nm	Max 0.01 AU	0.00
Boiling Range within 2.0°C, inc. 110.6°C	To Pass Test	Pass
Specific Gravity @ 60°F	0.869 - 0.873	0.872

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Toluene

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