

## Certificate of Analysis

**Product: Toluene**  
**Item Number: TOLHPLC**  
**Grade: HPLC**  
**Lot Number: 23020370**  
**Manufacture Date: 03/13/2023**  
**Expiration Date: 02/28/2028**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Description	Clear colorless liquid free of suspended matter	Pass
Assay by GC-FID	Min 99.8%	99.99
Color	Max 10 APHA	5
Residue after evaporation	Max 4 ppm	1
Substances darkened by Sulfuric Acid	Passes the test	Pass
Sulfur compounds as Sulfur	Max 0.003%	0.001
Trace organic impurity as Benzene	Max 300 ppm	9
Water by KF Coulometry	Max 0.03%	0.002
Optical Absorbance		
@ 285 nm	Max 1.0 AU	0.80
@ 288 nm	Max 0.4 AU	0.34
@ 300 nm	Max 0.10 AU	0.10
@ 310 nm	Max 0.05 AU	0.04
@ 335 nm	Max 0.02 AU	0.01
@ 350 nm	Max 0.01 AU	0.003
@ 400 nm	Max 0.01 AU	< 0.001

### Toluene

Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley

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