

CERTIFICATE OF ANALYSIS
TOLUENE
Meets GENERAL USE HPLC-UV Monographs

Lot # C17H31BLK-0000TOL

QC # WO142416

Date of Manufacture: 08/31/17

Retest Date: Five Years from Date of Manufacture

Main Catalog #: 34700HPLC

Product Specifications	Limits	Results
Assay (GC), min.	99.7%	99.93%
Color (APHA), max.	10	2
Appearance	Clear	Pass
Res. After evap., max.	10	0 ppm
Subst. Dark. by H ₂ SO ₄	To Pass	Pass
Sulfur Com. (as S), max.	0.003%	< 0.001%
Water, max.	0.03%	0.01%
Refractive Index @ 25 C	To Pass	Pass
Benzene	0.03%	< 0.01%
C8 Aromatics	Per Lot/	0.05
Non - Aromatics	Per Lot	0.01
Specific Gravity 60/60F	0.869-0.873	0.872
UV Absorbance (ACS) @ 286 nm	1.00	0.52
@ 288 nm	0.50	0.34
@ 293 nm	0.20	0.19
@ 300 nm	0.10	0.10
@ 310 nm	0.05	0.05
@ 335 nm	0.02	0.01
@ 350 nm	0.01	0.00
@ 400 nm	0.01	0.00
Boiling Range w/in 2.0C, inc. 110.6C +/- 0.1C	To Pass	Pass

Form: Toluene, HPLC, #301, Rev. 2.6, 06/16, KAD

Approved by: M. Buttrick, Quality Control Chemist

Disclaimer: For Industrial/Lab use only. Not intended as a Drug Substance, Medical Device or Disinfectant. Appropriate/legal use of this product is the responsibility of the user. (Rev. # disclaimer only, rev 3.6, 07/15, PD)