

**CERTIFICATE OF ANALYSIS**
**TOLUENE**
**Meets GENERAL USE HPLC-UV Monographs**

Lot # C18B28BLK0000TOL

QC # PPR35521

Date of Manufacture: 02/28/18

Retest Date: Five Years from Date of Manufacture

Main Catalog #: 34700HPLC

Product Specifications	Limits	Results
Assay (GC), min.	99.7%	99.91%
Color (APHA), max.	10	1
Appearance	Clear	Pass
Res. After evap., max.	10	0 ppm
Subst. Dark. by H <sub>2</sub> SO <sub>4</sub>	To Pass	Pass
Sulfur Com. (as S), max.	0.003%	< 0.01%
Water, max.	0.03%	0.01%
Refractive Index @ 25 C	To Pass	Pass
Benzene	0.03%	<0.01%
C8 Aromatics	Per Lot	0.01%
Non - Aromatics	Per Lot	0.06%
Specific Gravity 60/60F	0.869-0.873	0.872
UV Absorbance (ACS) @ 286 nm	1.00	0.57
@ 288 nm	0.50	0.36
@ 293 nm	0.20	0.20
@ 300 nm	0.10	0.10
@ 310 nm	0.05	0.03
@ 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: T. Boudreau, 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)