



PT. SMART LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS

F/QCL/009 Rev.03

CERTIFICATE OF ANALYSIS

Product Name : Toluene AR
Mol. Formula : C₇H₈
Mol. Weight : 92.14 g/mol
Catalog No. : A-1075
Cas No : 108-88-3

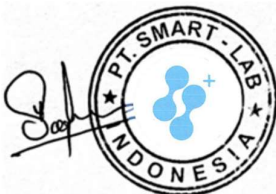


Batch No. : Sample COA
Shelf Life : 60 Months

NO.	TESTS	UNITS	SPECIFICATIONS	RESULTS
1.	Appearance	—	Clear colorless liquid	Clear colorless liquid
2.	Assay (GC)	wt %	min 99.5	99.825
3.	Wt. Per ml at 20 0C	g/cm ³	0.860 – 0.867	0.863
4.	Color	Hazen	max 10	< 10
5.	Refractive Index	n _{20D}	1.494 – 1.497	1.496
6.	Water (H ₂ O)	wt %	max 0.03	0.0224
7.	Non-volatile matter	wt %	max 0.002	0.0017
8.	Acidity (HCl)	wt %	max 0.0004	0.00032
9.	Alkalinity (NH ₃)	wt %	max 0.0002	0.000013
10.	Benzene (C ₆ H ₆)	wt %	max 0.2	NIL
11.	Copper (Cu)	wt %	max 0.000002	< 0.000002
12.	Iron (Fe)	wt %	max 0.00001	< 0.00001
13.	Lead (Pb)	wt %	max 0.000005	< 0.000005
14.	Organic Impurities (acid wash)	—	Passes Test	Passes Test
15.	Sulphur Compounds (S)	wt %	max 0.0003	< 0.0003
16.	Thiophen homologues (C ₄ H ₄ S)	wt %	max 0.0002	< 0.0002

Result: The above product corresponds to AR Grade

Reference or standard of product specification to Analar standard and ACS specification



Yuvraj Sagvekar
Manager QC