

Certificate of Analysis

Product	Toluene	Batch No.	: 21 06 0161
Grade	RCI Premium	Manufacturing date	: 16/06/2021
Code No.	RP1347	Best before	: 06/2024

Items	Descriptions	Specifications	Test Results
1	Assay (by GC.)	99.8% min.	99.8%
2	Identity (IR)	Passes test	Passes test
3	Appearance	Clear	Clear
4	Color (APHA)	10 max.	< 10
5	Water (by Coulometry)	0.03% max.	0.012%
6	Acidity (mEq./g.)	0.0002 max.	< 0.0002
7	Alkalinity (mEq./g.)	0.0004 max.	< 0.0004
8	Residue on Evaporation	0.0005% max.	< 0.0005%
9	Sulfur Compounds (S)	0.003% max.	< 0.003%
10	Benzene (GC.)	0.02% max.	< 0.02%
11	Thiophene	0.0001% max.	< 0.0001%
12	Substances darkened by sulfuric acid	Passes test	Passes test
13	Chloride (Cl)	0.5 ppm max.	< 0.5 ppm
14	Sulfate (SO ₄)	1 ppm max.	< 1 ppm
15	Aluminium (Al)	0.2 ppm max.	< 0.2 ppm
16	Arsenic (As)	0.02 ppm max.	< 0.02 ppm
17	Antimony (Sb)	0.02 ppm max.	< 0.02 ppm
18	Barium (Ba)	0.05 ppm max.	< 0.05 ppm
19	Beryllium (Be)	0.02 ppm max.	< 0.02 ppm
20	Bismuth (Bi)	0.1 ppm max.	< 0.1 ppm
21	Boron (B)	0.02 ppm max.	< 0.02 ppm
22	Cadmium (Cd)	0.05 ppm max.	< 0.05 ppm
23	Calcium (Ca)	0.2 ppm max.	< 0.2 ppm
24	Chromium (Cr)	0.02 ppm max.	< 0.02 ppm
25	Cobalt (Co)	0.02 ppm max.	< 0.02 ppm
26	Copper (Cu)	0.02 ppm max.	< 0.02 ppm
27	Gallium (Ga)	0.02 ppm max.	< 0.02 ppm
28	Gold (Au)	0.05 ppm max.	< 0.05 ppm
29	Indium (In)	0.02 ppm max.	< 0.02 ppm
30	Iron (Fe)	0.05 ppm max.	< 0.05 ppm
31	Lead (Pb)	0.05 ppm max.	< 0.05 ppm
32	Lithium (Li)	0.02 ppm max.	< 0.02 ppm
33	Magnesium (Mg)	0.05 ppm max.	< 0.05 ppm
34	Manganese (Mn)	0.02 ppm max.	< 0.02 ppm
35	Molybdenum (Mo)	0.05 ppm max.	< 0.05 ppm
36	Nickel (Ni)	0.02 ppm max.	< 0.02 ppm

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37	Platinum (Pt)	0.02 ppm max.	< 0.02 ppm
38	Silver (Ag)	0.02 ppm max.	< 0.02 ppm
39	Thallium (Tl)	0.05 ppm max.	< 0.05 ppm
40	Tin (Sn)	0.1 ppm max.	< 0.1 ppm
41	Titanium (Ti)	0.05 ppm max.	< 0.05 ppm
42	Vanadium (V)	0.05 ppm max.	< 0.05 ppm
43	Zinc (Zn)	0.05 ppm max.	< 0.05 ppm
44	Zirconium (Zr)	0.02 ppm max.	< 0.02 ppm

Meet A.C.S. Specifications.

This is to certify the above batch has been tested and complies with this specification.

Ladaphan

Chemist

Achan

Technical Manager