

Certificate of Analysis

Product	Butan-1-ol	Batch No.	: 21 06 0201
Grade	RCI Premium	Manufacturing date	: 30/06/2021
Code No.	RP1024	Best before	: 06/2025

Items	Descriptions	Specifications	Test Results
1	Assay (by GC.)	99.5% min.	99.9%
2	Identity (IR)	Passes test	Passes test
3	Appearance	Passes test	Passes test
4	Color (APHA)	10 max.	< 10
5	Water (by Coulometry)	0.1% max.	0.024%
6	Acidity (mEq./g.)	0.0008 max.	< 0.0008
7	Residue on Evaporation	0.001% max.	< 0.001%
8	2-Butanol (GC.)	0.05% max.	< 0.05%
9	Butyl ether (GC.)	0.1% max.	< 0.1%
10	Butyraldehyde (GC.)	0.01% max.	< 0.01%
11	Dibutyl ether (GC.)	0.1% max.	< 0.1%
12	Isobutanol (GC.)	0.15% max.	< 0.15%
13	Aldehydes & Ketones	0.002% max.	< 0.002%
14	Carbonyl Compounds (as butyraldehyde)	0.01% max.	< 0.01%
15	Readily carbonizable substances	Passes test	Passes test
16	Aluminium (Al)	0.2 ppm max.	< 0.2 ppm
17	Barium (Ba)	0.05 ppm max.	< 0.05 ppm
18	Boron (B)	0.01 ppm max.	< 0.01 ppm
19	Cadmium (Cd)	0.02 ppm max.	< 0.02 ppm
20	Calcium (Ca)	0.2 ppm max.	< 0.2 ppm
21	Chromium (Cr)	0.01 ppm max.	< 0.01 ppm
22	Cobalt (Co)	0.01 ppm max.	< 0.01 ppm
23	Copper (Cu)	0.01 ppm max.	< 0.01 ppm
24	Iron (Fe)	0.05 ppm max.	< 0.05 ppm
25	Lead (Pb)	0.05 ppm max.	< 0.05 ppm
26	Magnesium (Mg)	0.05 ppm max.	< 0.05 ppm
27	Manganese (Mn)	0.01 ppm max.	< 0.01 ppm
28	Nickel (Ni)	0.01 ppm max.	< 0.01 ppm
29	Tin (Sn)	0.05 ppm max.	< 0.05 ppm
30	Zinc (Zn)	0.05 ppm max.	< 0.05 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