

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME** : n- BUTANOL AR  
(Butane-1-ol, n-butyl alcohol)

**CAS No** : 71-36-3  
**Mol. Formula** : C<sub>4</sub>H<sub>10</sub>O  
**Mol. WT** : 74.12  
**Date of Analysis** : 13/08/23

**Product code** : 22391  
**Batch No.** : MCRT-29047  
**Mfd.** : Aug. 2023  
**Exp.** : July 2028

S.R	Test	Specification	Observation
1	<b>Description</b>	A clear, colourless liquid,with characteristic odor, APHA not greater than 10 HU.	A clear, colourless liquid,with characteristic odor, APHA less than 10 HU.
2	<b>Assay (GC)</b>	99.5 % min	99.86%
3	<b>Wt.per ml (at 20<sup>0</sup>c)</b>	0.808-0.810g	0.809g
4	<b>Refractive index</b>	1.3990-1.4000	1.3998
5	<b>Water -insoluble matter</b>	Passes test	Passes test
6	<b>Acidity(CH<sub>3</sub>COOH)</b>	0.003% max	< 0.003%
7	<b>Non volatile matter</b>	0.003% max	0.0007%
8	<b>Aldehyde &amp; Ketones (C<sub>3</sub>H<sub>7</sub>CHO)</b>	0.015% max	<0.015%
9	<b>Copper (Cu)</b>	0.0001% max	< 0.0001%
10	<b>Iron (Fe)</b>	0.0002% max	< 0.0002%
11	<b>Lead (Pb)</b>	0.0001% max	< 0.0001%
12	<b>Water</b>	0.1% max	0.08%

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

**CHEMIST**  
**(Deepa)**

**HEAD-QUALITY ASSUARANCE**  
**(G.G.Salian)**

**Note:** Computer generated image requires no sign.

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Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.