

### CERTIFICATE OF ANALYSIS

QUALITY CONTROL LABORATORY of SDFCL Mfg. Unit No.2  
 Survey No.299, Poicha(R), -391780, Taluka : Savli, District : Vadodara , Gujarat  
 NABL ACCREDITED TC-6881 ISO/IEC 17025 : 2017 For Chemical Testing

<b>LAB ID.</b>	: RM/1617/03135	<b>CERTIFICATE NO.</b>	: 290317/13
<b>NAME OF PRODUCT:</b>	BUTAN-1-OL AR		
<b>BATCH NO.</b>	: L192/1317/2903/31		
<b>PRODUCT CODE</b>	: 20061	<b>SPECIFICATION REF.:</b>	20061SP02
<b>MFG. DATE</b>	: DEC.-2019	<b>REASSESSMENT DATE:</b>	NOV.-2024

**CASR NO. (71-36-3)**  
**(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>3</sub>OH** **M. W. : 74.12**

TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF
*Description	A clear liquid, not more than 10 hazen units in colour, with a characteristic odour.	Complies	Ph Eur 6.0 <sup>th</sup> edition
*Solubility	4% Solution in water is clear and colourless, miscible with MeOH forming clear and colourless solution.	Complies	Ph Eur 6.0 <sup>th</sup> edition
*Minimum Assay (GC)	99.5%	99.84%	In house development
*Wt. per ml at 20°C	0.808 - 0.810 g	0.809 g	Ph Eur 6.0 <sup>th</sup> edition
*Boiling Range (116-118°C)	95.0%	96%	Ph Eur 6.0 <sup>th</sup> edition
*Refractive Index	1.399 - 1.400	1.400	Ph Eur 6.0 <sup>th</sup> edition
<b>MAXIMUM LIMITS OF IMPURITIES :</b>			
*Water insoluble matter	Passes test.	Passes test	In house development
*Water	0.1%	0.056%	Ph Eur 6.0 <sup>th</sup> edition
*Acidity (CH <sub>3</sub> COOH)	0.003%	0.0018%	In house development
*Non volatile matter	0.003%	0.0008%	ACS 10 <sup>th</sup> edition
*Aldehydes & Ketones (C <sub>3</sub> H <sub>7</sub> CHO)	0.015%	0.0037%	In house development
*Copper (Cu)	0.0001%	0.00004%	Vogel's fifth edition Quantitative chemical analysis
*Iron (Fe)	0.0002%	0.0001%	Vogel's fifth edition Quantitative chemical analysis
*Lead (Pb)	0.0001%	<0.0001%	ACS 2000

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(This is a computer printed report hence valid without signature)



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**“The tests marked with an \* are not accredited by NABL (ISO/IEC 17025:2017)”.**

THE ABOVE BATCH MATERIAL COMPLIES WITH THE PRESCRIBED QUALITY STANDARD AS ABOVE.

Measured values given in this Certificate of Analysis are the results determined at the time of Analysis. The above data do not relieve the user from analyzing the product upon receipt. Any legally binding assurance regarding the suitability of the product for any particular purpose or use cannot be derived thereof.

**The result relate only to the sample tested.**

**This certificate shall not be reproduced except in full, without written consent of the Lab. management.**

**This product is manufactured at our manufacturing unit no. 2 (Poicha)**

**Sampling SOP No.** : SDFCL-POI-SOP-001  
**Sampling Plan** : A (Sq. root of N+1)  
**Spl.Ref. (if any)** : -

**For S D FINE-CHEM LIMITED**  
**(Authorized Signatory)**

.....END OF REPORT.....

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