

## CERTIFICATE OF ANALYSIS

QUALITY CONTROL LABORATORY

of SDFCL Mfg.Unit No.2

Survey No.299,Poicha(R),-391 780, Taluka : Savli, District : Vadodara , Gujarat  
 NABL ACCREDITED T-3669 ISO/IEC 17025 : 2005 For Chemical (Fine Chemical)

<b>LAB ID.</b>	: RM/1819/01088	<b>CERTIFICATE NO.</b>	: 290119/10
<b>NAME OF PRODUCT:</b>	<b>METHANOL AR</b> (Meets analytical specification of Reagent IP, BP, USP-NF,Ph.Eur.)		
<b>BATCH NO.</b>	: A19A/1019/2901/31		
<b>PRODUCT CODE</b>	: 20158	<b>SPECIFICATION REF.:</b>	: 20158SP05
<b>MFG. DATE</b>	: JAN.-2019	<b>REASSESSMENT DATE:</b>	: DEC.-2023

**CASR NO. (67-56-1)**  
**CH<sub>3</sub>OH**                      **M. W. : 32.04**

TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF.
*Description	A clear liquid with a characteristic odour, not more than 10 Hazen units in colour.	Complies	Ph Eur 6.0 <sup>th</sup> edition
*Solubility	30% solution in water is clear & colourless within 1 hour.	Complies	Ph Eur 6.0 <sup>th</sup> edition
*Identification test A	1.328 -1.330	1.329	Ph Eur 6.0 <sup>th</sup> edition
*Refractive index (n) <sub>D</sub> <sup>20</sup>			
*Identification test B (By FTIR)	Conforms	Complies	Ph Eur 6.0 <sup>th</sup> edition
Minimum Assay(By GC)	99.5%	99.99%	ACS 10 <sup>th</sup> edition,2006
*Wt. per ml at 20°C	0.790 - 0.793 g	0.790 g	Ph Eur 6.0 <sup>th</sup> edition
*Boiling range (64.5 - 65.5°C )	Conforms	Complies	Ph Eur 6.0 <sup>th</sup> edition
<b>MAXIMUM LIMITS OF IMPURITIES:</b>			
*Acidity(as HCOOH)	0.001%	0.00046%	In house development
*Alkalinity(as NH <sub>3</sub> )	0.00017%	NIL	In house development
*Non Volatile matter	0.001%	0.0004%	ACS 10 <sup>th</sup> edition
*Acetone & Aldehydes (as Acetone)	0.003%	0.0015%	In house development
*Acetone (By GC)	0.001%	Complies	In house development
*Reducing substances	0.00025%	<0.00025%	ACS 2000
*Readily oxidisable Substances	Passes test (min 5 minutes)	Complies	ACS 2000

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*Readily carbonisable substances	Passes test	Complies	ACS 2000
*Water	0.05%	0.015%	Ph Eur 6.0 <sup>th</sup> edition
*Iron(Fe)	0.0001%	<0.0001%	Vogel's fifth edition Quantitative chemical Analysis Ph Eur 6.0 <sup>th</sup> edition
*Maximum Absorbance in a 1.0 cm cell at :			
230 nm	0.15	0.11	
250 nm	0.05	0.03	
270 nm	0.02	0.01	
290 nm	0.01	0.01	
*Benzene content (C <sub>6</sub> H <sub>6</sub> ) (By GCHS)	2 ppm w/v	ND	USP-36, 2013
*Sum of peaks (Total impurities)(By GC)	0.3%	<0.3%	In house development BP-2008
*Related substances	Passes test	Complies	In house development BP-2008
*Sulphate (SO <sub>4</sub> )	0.0005%	0.00028%	In house development
*Chloride (Cl)	0.0001%	<0.0001%	ACS 2000
*Residual solvents	Excluded by production process.	Complies	In house development

**“The tests marked with an \* are not accredited by NABL (ISO/IEC 17025:2005)”.**

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**

**For S D FINE-CHEM LIMITED**

**Sampling Plan : A (Sq. root of N+1)**

**Spl.Ref. (if any) : -**

**(Authorised Signatory)**

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