

### 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 TC-6881 ISO/IEC 17025 : 2005 For Chemical Testing

**ULR No:** TC688119000000140P

**1.Discipline:** Chemical Testing

**I. Group:** Chemical

<b>Name of Product</b>	<b>METHANOL AR (Meets analytical specification of Reagent IP,BP,USP-NF,Ph.Eur.)</b>		
<b>Batch No.:</b>	<b>J19A/1419/1910/31</b>	<b>Product Code</b>	<b>20158</b>
<b>Mfg. Date:</b>	<b>OCT.-2019</b>	<b>Reassessment Date:</b>	<b>SEPT.-2024</b>
<b>Specification Ref.:</b>	<b>20158SP05</b>	<b>Lab ID :</b>	<b>RM/1920/10089</b>
<b>CASR No.:</b>	<b>67-56-1</b>	<b>Certificate No.:</b>	<b>R- 191019/14</b>
<b>Molecular Formula:</b>	<b>CH<sub>3</sub>OH</b>	<b>Molecular Weight:</b>	<b>32.04</b>

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 and colourless within 1 Hour.	Complies	Ph Eur 6.0 <sup>th</sup> edition
*Identification test A (By FTIR) Refractive Index (n) <sub>D</sub> <sup>20</sup>	1.328 - 1.330	1.330	Ph Eur 6.0 <sup>th</sup> edition
*Identification test B (By FTIR)	Conforms	Complies	Ph Eur 6.0 <sup>th</sup> edition
Minimum Assay (By GC)	99.5%	99.97%	ACS 11 <sup>th</sup> edition, 2016
*Wt. per ml at 20°C	0.790 - 0.793 g	0.791 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%	0.00056%	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%	0.0012%	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
*Readily carbonisable substances	Passes test	Complies	ACS 2000
*Water (KF)	0.05%	0.027%	Ph Eur 6.0 <sup>th</sup> edition
*Iron (Fe)	0.0001%	0.00004%	Vogel's fifth edition Quantitative chemical Analysis

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*Maximum Absorbance in a 1.0 cm cell at:			Ph Eur 6.0 <sup>th</sup> edition
230 nm	0.15	0.10	
250 nm	0.05	0.03	
270 nm	0.02	0.01	
290 nm	0.01	0.01	
*Benzene (Impurity A) (By GC)	2 ppm v/v	Complies	USP-36, 2013
*Sum of peaks (Total Impurities) (By GC)	0.3%	<0.3%	In house development/ BP2008
*Related substances	Passes Test	Complies	In house development/ BP 2008
*Sulphate (SO <sub>4</sub> )	0.0005%	0.00030%	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 results 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**

**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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