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### 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 : 2017 For Chemical Testing

**Date of Sampling** : 21/12/2022  
**Testing started on** : 21/12/2022  
**Testing completed on** : 21/12/2022  
**Date of Reporting** : 07/02/2023

<b>Name Of The Product</b>	<b>METHANOL AR (Meets analytical specification of Reagent IP,BP,USP-NF,Ph.Eur.)</b>		
<b>Batch No.:</b>	<b>A23A/0122/2112/31</b>	<b>Product Code</b>	<b>20158</b>
<b>Mfg. Date</b>	<b>JAN.-2023</b>	<b>Reassessment Date</b>	<b>DEC.-2027</b>
<b>Specification Reference</b>	<b>20158SP05</b>	<b>Lab ID</b>	<b>RM/2223/12084</b>
<b>CASR No.</b>	<b>67-56-1</b>	<b>Certificate No.:</b>	<b>211222/01</b>
<b>Molecular Formula</b>	<b>CH<sub>3</sub>OH</b>	<b>Molecular Weight</b>	<b>32.04</b>

S.NO.	TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF.
1	Description	A clear liquid with a characteristic odour, not more than 10 Hazen units in Colour.	Complies	Ph Eur 10 <sup>th</sup> edition
2	Solubility	30% Solution in water is clear and colourless within 1 Hour.	Complies	Ph Eur 10 <sup>th</sup> edition
3	Identification test A Refractive Index (n) <sub>D</sub> <sup>20</sup>	1.328 - 1.330	1.328	Ph Eur 10 <sup>th</sup> edition
4	Identification test B (By FTIR)	Conforms	Complies	Ph Eur 10 <sup>th</sup> edition
5	Minimum Assay (By GC)	99.5%	99.97%	ACS 11 <sup>th</sup> edition, 2016
6	Wt. per ml at 20°C	0.790 - 0.793 g	0.792 g	Ph Eur 10 <sup>th</sup> edition
7	Boiling Rang (64.5-65.5°C)	Conforms	Complies	Ph Eur 10 <sup>th</sup> edition

#### MAXIMUM LIMITS OF IMPURITIES :

8	Acidity (as HCOOH)	0.001%	0.00046%	In house development
9	Alkalinity (as NH <sub>3</sub> )	0.00017%	NIL	In house development
10	Non volatile Matter	0.001%	0.0003%	ACS 11 <sup>th</sup> edition
11	Acetone & aldehydes (as Acetone)	0.003%	0.0014%	In house development
12	Acetone (By GC)	0.001%	Complies	In house development
13	Reducing Substances	0.00025%	<0.00025%	ACS 11 <sup>th</sup> edition
14	Readily oxidisable substances	Passes test (min 5 minutes)	Complies	ACS 11 <sup>th</sup> edition
15	Readily carbonisable substances	Passes test	Complies	ACS 11 <sup>th</sup> edition
16	Water (KF)	0.05%	0.027%	Ph Eur 10 <sup>th</sup> edition
17	Iron (Fe)	0.0001%	0.00005%	Vogel's fifth edition

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

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				Quantitative chemical Analysis
18	Maximum Absorbance in a 1.0 cm cell at:			Ph Eur 10 <sup>th</sup> edition
	230 nm	0.15	0.098	
	250 nm	0.05	0.014	
	270 nm	0.02	0.004	
	290 nm	0.01	0.009	
19	Benzene (Impurity A) (By GC)	2 ppm v/v	Complies	USP-41
20	Sum of peaks (Total Impurities) (By GC)	0.3%	<0.3%	In house development/ BP-2020
21	Related substances	Passes Test	Complies	In house development/ BP-2020
22	Sulphate (SO <sub>4</sub> )	0.0005%	0.00026%	In house development
23	Chloride (Cl)	0.0001%	<0.0001%	ACS 11 <sup>th</sup> edition
24	Residual solvents	Excluded by Production process	Complies	In house development

● **Packing is found to be Satisfactory / Not Satisfactory**

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.**

**Sampling SOP : SDFCL-POI-SOP-001**

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

**For S D FINE-CHEM LIMITED, POICHA**

**(Authorized Signatory)**  
**Manager Quality Control**

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

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