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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 : 03/02/2023
Testing started on : 03/02/2023
Testing completed on : 03/02/2023
Date of Reporting : 14/03/2023

Name Of The Product	METHANOL AR (Meets analytical specification of Reagent IP,BP,USP-NF,Ph.Eur.)		
Batch No.:	B23A/3623/3101/31	Product Code	20158
Mfg. Date	FEB.-2023	Reassessment Date	JAN.-2028
Specification Reference	20158SP05	Lab ID	RM/2223/01164
CASR No.	67-56-1	Certificate No.:	310123/36
Molecular Formula	CH₃OH	Molecular Weight	32.04

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 th edition
2	Solubility	30% Solution in water is clear and colourless within 1 Hour.	Complies	Ph Eur 10 th edition
3	Identification test A Refractive Index (n) _D ²⁰	1.328 - 1.330	1.328	Ph Eur 10 th edition
4	Identification test B (By FTIR)	Conforms	Complies	Ph Eur 10 th edition
5	Minimum Assay (By GC)	99.5%	99.97%	ACS 11 th edition, 2016
6	Wt. per ml at 20°C	0.790 - 0.793 g	0.791 g	Ph Eur 10 th edition
7	Boiling Rang (64.5-65.5°C)	Conforms	Complies	Ph Eur 10 th edition

MAXIMUM LIMITS OF IMPURITIES :

8	Acidity (as HCOOH)	0.001%	0.00064%	In house development
9	Alkalinity (as NH ₃)	0.00017%	NIL	In house development
10	Non volatile Matter	0.001%	0.0004%	ACS 11 th edition
11	Acetone & aldehydes (as Acetone)	0.003%	0.0015%	In house development
12	Acetone (By GC)	0.001%	Complies	In house development
13	Reducing Substances	0.00025%	<0.00025%	ACS 11 th edition
14	Readily oxidisable substances	Passes test (min 5 minutes)	Complies	ACS 11 th edition
15	Readily carbonisable substances	Passes test	Complies	ACS 11 th edition
16	Water (KF)	0.05%	0.030%	Ph Eur 10 th edition

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

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17	Iron (Fe)	0.0001%	0.00004%	Vogel's fifth edition Quantitative chemical Analysis
18	Maximum Absorbance in a 1.0 cm cell at:			Ph Eur 10 th edition
	230 nm	0.15	0.105	
	250 nm	0.05	0.018	
	270 nm	0.02	0.004	
	290 nm	0.01	0.002	
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 ₄)	0.0005%	0.00027%	In house development
23	Chloride (Cl)	0.0001%	<0.0001%	ACS 11 th edition
24	Residual solvents	Excluded by Production process	Complies	In house development
ADDITIONAL TEST :				
	Relative Density at 20° C	0.791-0.793	0.791	Ph Eur 6.0 th edition

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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