

# PT. SMART LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS

F/QCL/009 Rev.02

## CERTIFICATE OF ANALYSIS

Product Name : Methanol AR

Mol. Formula :  $\text{CH}_3\text{OH}$

Mol. Weight : 32.04 g/mol

Catalog No. : A-1056

Cas No : 67-56-1

Batch No. : 181023012

Mfg. Date : October, 2023

Exp. Date : October, 2028

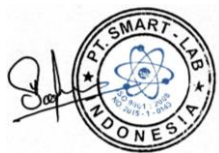


Recommended for a plastic container for 6 months from the date of pouring (Expiry date corresponding to label)

NO.	TESTS	UNITS	SPECIFICATIONS	RESULTS
1.	Appearance	—	Clear colorless liquid	Clear colorless liquid
2.	Assay (GC)	wt %	min 99.8	99.974
3.	Wt. Per ml at 20 °C	g/cm <sup>3</sup>	0.789 – 0.792	0.790
4.	Colour	Hazen	max 10	< 10
5.	Refractive Index	n <sup>20</sup> <sub>D</sub>	1.327 – 1.330	1.329
6.	Water (H <sub>2</sub> O)	wt %	max 0.1	0.0608
7.	Non-volatile matter	wt %	max 0.001	0.00073
8.	Acidity (as HCOOH)	wt %	max 0.001	0.00072
9.	Alkalinity (NH <sub>3</sub> )	wt %	max 0.0002	0.00014
10.	Ethanol (GC)	wt %	max 0.1	NIL
11.	Acetone (GC)	wt %	max 0.001	NIL
12.	Acetaldehyde	wt %	max 0.001	< 0.001
13.	Formaldehyde	wt %	max 0.001	< 0.001
14.	Solubility in water	—	passes test	Passes test
15.	Substances darkened (by H <sub>2</sub> SO <sub>4</sub> )	—	passes test	Passes test
16.	Substances Reducing KMnO <sub>4</sub>	—	passes test	Passes test

Result: The above product corresponds to AR Grade

*Reference or standard of product specification to Analar standard and ACS specification*



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