



PT. SMART-LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS



CERTIFICATE OF ANALYSIS

Product Name	: Methanol anhydrous	Molecular Weight	: 32.04 g/mol
Catalog No.	: A-1057	Batch No.	: 171120003
Grade	: Analytical Reagent	Manufacturing Date	: Nov 17, 2020
Formula	: CH ₃ OH	Expire Date	: November , 2023
Cas No	: 67-56-1		

NO	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	—	Clear colorless liquid	Clear colorless liquid
2.	Assay (GC)	wt %	min 99.8	99.954
3.	Wt. Per ml at 20 °C	g/cm ³	0.789 – 0.792	0.792
4.	Substances darkened by H ₂ SO ₄	—	Passes test	Passes test
5.	Substances reducing KMnO ₄	—	Passes test	Passes test
6.	Solubility in H ₂ O	—	Passes test	Passes test
7.	Colour	Hazen	max 10	< 10
8.	Water (H ₂ O)	wt %	max 0.007	0.0059
9.	Non-volatile matter	wt %	max 0.001	0.00082
10.	Aldehyde and Ketones [(CH ₃) ₂ CO]	wt %	max 0.005	< 0.005
11.	Ethanol	wt %	max 0.1	NIL
12.	Acidity (HCOOH)	wt %	max 0.001	0.00071
13.	Alkalinity (NH ₃)	wt %	max 0.0002	0.00015

Result : The above product corresponds to AR Grade

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

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SUDIRO S.Si.
Head QC