



PT. SMART-LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS



CERTIFICATE OF ANALYSIS

Product Name : Ethyl Acetate Molecular Weight : 88.11 g/mol
Catalog No. : A-1038 Batch No. : 171219004
Grade : Analytical Reagent Manufacturing Date : December 17, 2019
Formula : $\text{CH}_3\text{COOC}_2\text{H}_5$ Expire Date : December, 2022
Cas No : 141-78-6

NO.	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	—	Clear colorless liquid	Clear colorless liquid
2.	Assay (GC)	wt %	min 99.5	99.925
3.	Wt. Per ml at 20 °C	g/cm ³	0.899 – 0.901	0.900
4.	Colour	Hazen	max 10	< 10
5.	Refractive Index	n ²⁰ _D	1.372 – 1.373	1.372
6.	Water (H ₂ O)	wt %	max 0.05	0.0352
7.	Non-volatile matter	wt %	max 0.001	0.00085
8.	Acidity (CH ₃ COOH)	wt %	max 0.005	0.0024
9.	Methyl acetate (GC)	wt %	max 0.1	NIL
10.	Ethanol (GC)	wt %	max 0.1	NIL
11.	Methanol (GC)	wt %	max 0.1	NIL
12.	Copper (Cu)	wt %	max 0.000002	< 0.000002
13.	Iron (Fe)	wt %	max 0.00002	< 0.00002
14.	Lead (Pb)	wt %	max 0.000005	< 0.000005
15.	Organic impurities	—	passes test	Passes test

Result : The above product corresponds to AR Grade

Reference or standard of product specification to Analar standard specification

PT. SMART LAB INDONESIA



SUDIRO S.Si.
Head QC