



CERTIFICATE OF ANALYSIS

Product Name : Ethanol Food grade 96%
Batch No. : 070420
Formula : C₂H₅O
Cas No : 64-17-5
Date Of Analysis : Okt 07,2020

NO.	ITEM TEST	UNITS	METHOD	SPECIFICATION	RESULT
1.	Appearance	–	Visual	Clear Colourless	Clear Colourless
2.	Colour	Hazen	ASTM D-1209	max 10	< 10
3.	Specific Gravity at 20 °C	–	ASTM D-891	0.8051 – 0.8127	0.8085
4.	Ethanol Content	wt %	Alcoholmeter	min 96	96.0
5.	Methanol Content	ppm	GC	max 20	< 20
6.	Acidity (as CH ₃ COOH)	ppm	ASTM D-1613	max 10	2.4
7.	Total Higher Alcohols	ppm	GC	max 50	0.002
8.	Ester (ethyl acetate)	ppm	GC	max 20	Nil
9.	Aldehyde (as acetaldehyde)	ppm	GC	max 10	5.5
10.	Furfural content	ppm	Spectrofotometer	Nil	Nil
11.	Permanganate time @15 °C	minute	ASTM D-1363	min 10	14.08
12.	Residu after evaporation	ppm	ASTM D-1353	max 20	12

Remark:

This certificate refers to COA Maker / supplier and the tested sample only

PT. Pancasakti Putra Kencana



SUDIRO S.Si.
Quality Control