



PT. SMART-LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS



CERTIFICATE OF ANALYSIS

Product Name	: n-Butyl Alcohol	Molecular Weight	: 74.12 g/mol
Catalog No.	: A-1016	Batch No.	: 170320001
Grade	: Analytical Reagent	Manufacturing Date	: March 17, 2020
Formula	: C ₄ H ₁₀ O	Expire Date	: March, 2023
Cas No	: 71-36-3		

NO.	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	—	Clear colorless liquid	Clear colorless liquid
2.	Assay (GC)	wt %	min 99.5	99.952
3.	Wt. Per ml at 20 °C	g/cm ³	0.808 – 0.812	0.812
4.	Colour	Hazen	max 10	< 10
5.	Refractive Index	n ²⁰ _D	1.398 – 1.400	1.399
6.	Water-insoluble matter	—	Passes Test	Passes Test
7.	Water (H ₂ O)	wt %	max 0.1	0.0589
8.	Non-volatile matter	wt %	max 0.001	0.0008
9.	Acidity (CH ₃ COOH)	wt %	max 0.003	0.0023
10.	Aldehydes and Ketones (C ₃ H ₇ .CHO)	wt %	max 0.015	< 0.015
11.	Copper (Cu)	wt %	max 0.000002	< 0.000002
12.	Iron (Fe)	wt %	max 0.00001	< 0.00001
13.	Lead (Pb)	wt %	max 0.000005	< 0.000005

Result : The above product corresponds to AR Grade

Reference or standard of product specification to Analar standard specification

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SUDIRO S.Si
Head QC