



PT. SMART-LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS



CERTIFICATE OF ANALYSIS

Product Name : Diethyl Ether Molecular Weight : 74.12 g/mol
Catalog No. : A-1033 Batch No. : 280220001
Grade : Analytical Reagent Manufacturing Date : February 28, 2020
Formula : (C₂H₅)₂O Expire Date : February , 2023
Cas No : 60-29-7

NO.	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	—	Clear colorless liquid, with characteristic odor	Clear colorless liquid, with characteristic odor
2.	Assay (GC)	wt %	min 99.0	99.926
3.	Color	Hazen	max 10	< 10
4.	Wt.per ml at 20 °C	g/cm ³	0.712 – 0.715	0.714
5.	Refractive Index	n ²⁰ _D	1.351 – 1.353	1.352
6.	Water - insoluble matter	—	Passes test	Passes test
7.	Water	wt %	max 0.2	0.0325
8.	Acidity (as CH ₃ COOH)	wt %	max 0.001	0.00085
9.	Residu after evaporation	wt %	max 0.001	0.0008
10.	Aldehydes and ketones (CH ₃ CHO)	wt %	max 0.002	< 0.002
11.	Ethanol (C ₂ H ₅ OH)	wt %	max 0.05	NIL
12.	Methanol (CH ₃ OH)	wt %	max 0.02	NIL
14.	Peroxide (as H ₂ O ₂)	wt %	max 0.0001	< 0.0001
15.	Substances darkened by H ₂ SO ₄	—	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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Head QC