

Certificate of Analysis

Product Name:

1-Propanol PurCert Standard for GC

Product No.: PSR28299
Lot No.: P28299H1125
Brand: PureSynth
CAS No.: 71-23-8
Molecular Formula: C₃H₈O
Molecular Weight: 60.10 g/mol
Date of Mfg.: November,2025
Date of Exp.: October,2030

Test	Specification	Result
Appearance	Colorless liquid	Conforms
Assay	≥99.5%	99.95%
Water (By KF)	NMT 1.0%	0.63%
¹ H NMR Spectrum	Conforms to structure	Conforms
Mass Spectrum	Conforms to molecular mass	Conforms
IR Spectrum	Conforms to structure	Conforms

***Traceable to USP Reference Standard 1570406, Lot no: R234P0**

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For queries on this COA, please contact our technical team at technical@pure-synth.com

ASSAY BY GC-FID

METHOD: GC- FID conditions:

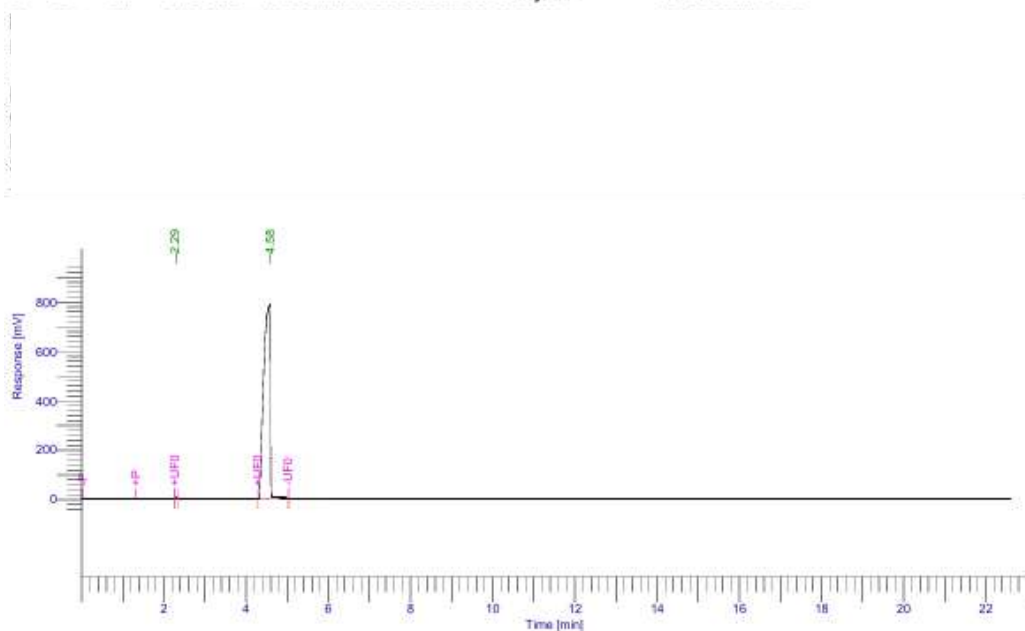
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

Instrument: PerkinElmer, GC 2014,

Detector: FID, **Carrier gas:** Nitrogen

Temp programming: Initial 50°C hold for 1min, 5° C Ramp/ min., 100 °C hold for 1 min., 25°C Ramp up to 250°C hold for 2 min., Run time 20 min.

Software Version	: 6.3.4.0700	Date	: 03-12-2025 13:48:08
Operator	: manager	Sample Name	: 1-PROPANOL-P28299H1125
Sample Number	: 001	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 0/36
Instrument Name	: Clarus 690	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 22.60 min
Sampling Rate	: 12.5000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 29-11-2025 14:21:01	Dilution Factor	: 1.00
		Cycle	: 1



Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		2.289	4680.40	3133.15	0.05
2		4.579	8864047.95	783027.44	99.95
			8868728.36	786160.59	100.00

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Purity by GC: 99.95 %

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IDENTIFICATION TESTS

GC-MS Spectrum:

METHOD: GC-MS conditions:

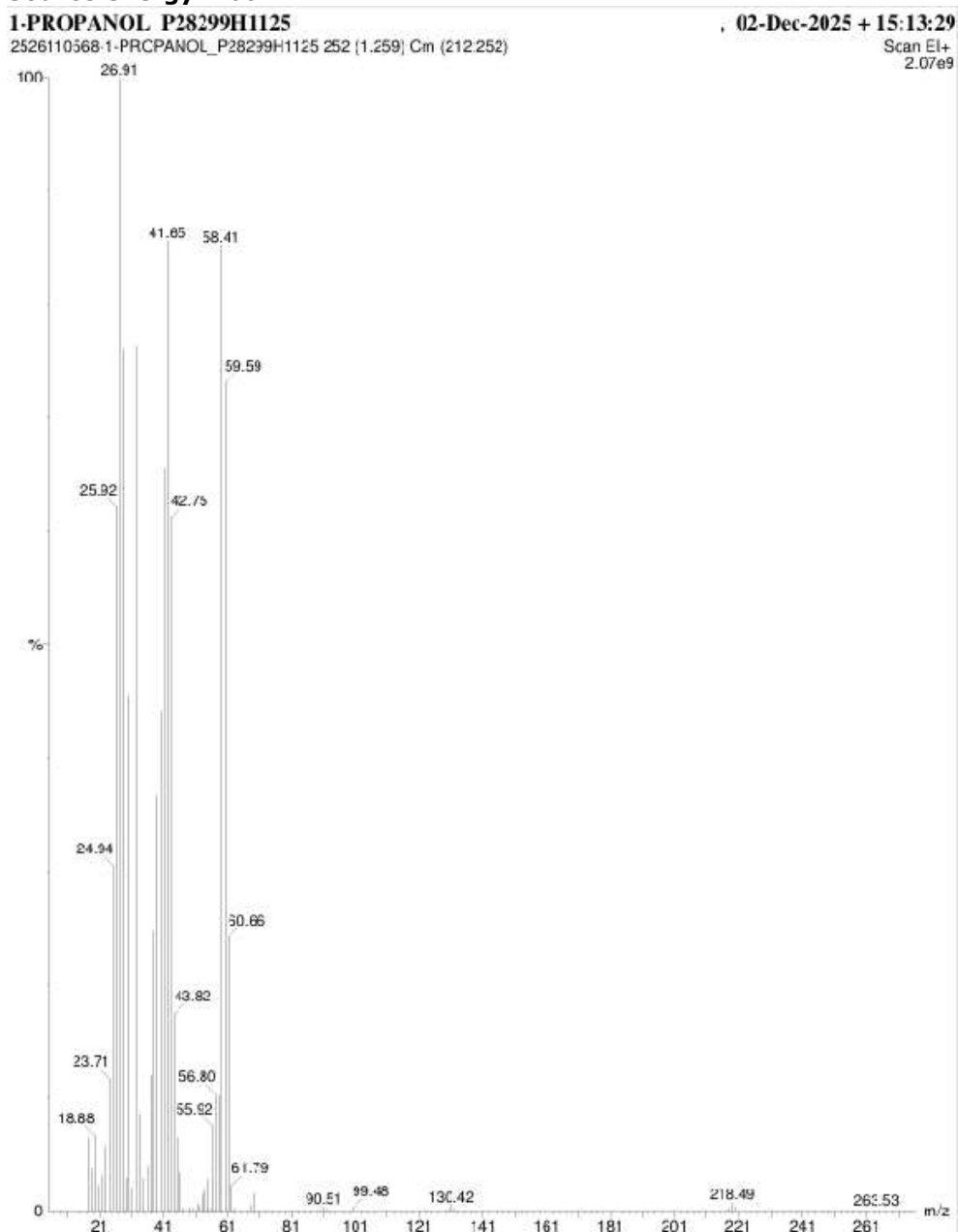
Column: Agilent Technologies, Elite -5MS, 30 m X 0.25 mm, 1.0micron

Instrument: Perkin Elmer, **Carrier gas:** Helium

Source Temp.: 230°C, Transfer line: 250°C

Inlet Temp.: 180°C, **Diluent:** Methanol

Source energy: 70eV



Identification by GC-MS: Conforms to molecular mass

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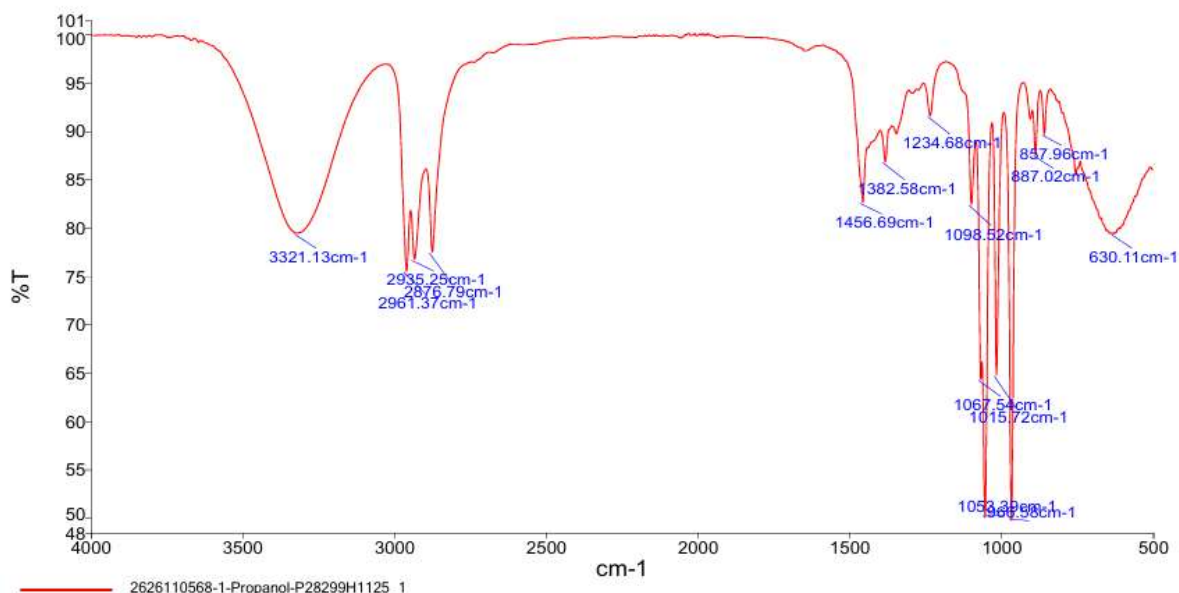
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Infrared spectrum:

Product Name: 1-Propanol
Product Code: PSR28299

Analyst
 Date

Analyst
 03 December 2025 16:42



Source Spectra Results		
Spectrum Name		Number Of Peaks
2626110568-1-Propanol-P28299H1125_1		15
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	3321.13	79.52
2	2961.37	75.56
3	2935.25	76.82
4	2876.79	77.57
5	1456.69	82.71
6	1382.58	86.91
7	1234.68	91.68
8	1098.52	82.49
9	1067.54	64.41
10	1053.39	50.08
11	1015.72	64.85
12	966.58	49.76
13	887.02	87.64
14	857.96	89.77
15	630.11	79.46

Identification by IR: Conforms to structure

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64683 Einhausen Marie-Curie-Straße. 3, Germany

Website: www.pure-synth.com

Phone: 1800-8908-260

Email: info@pure-synth.com

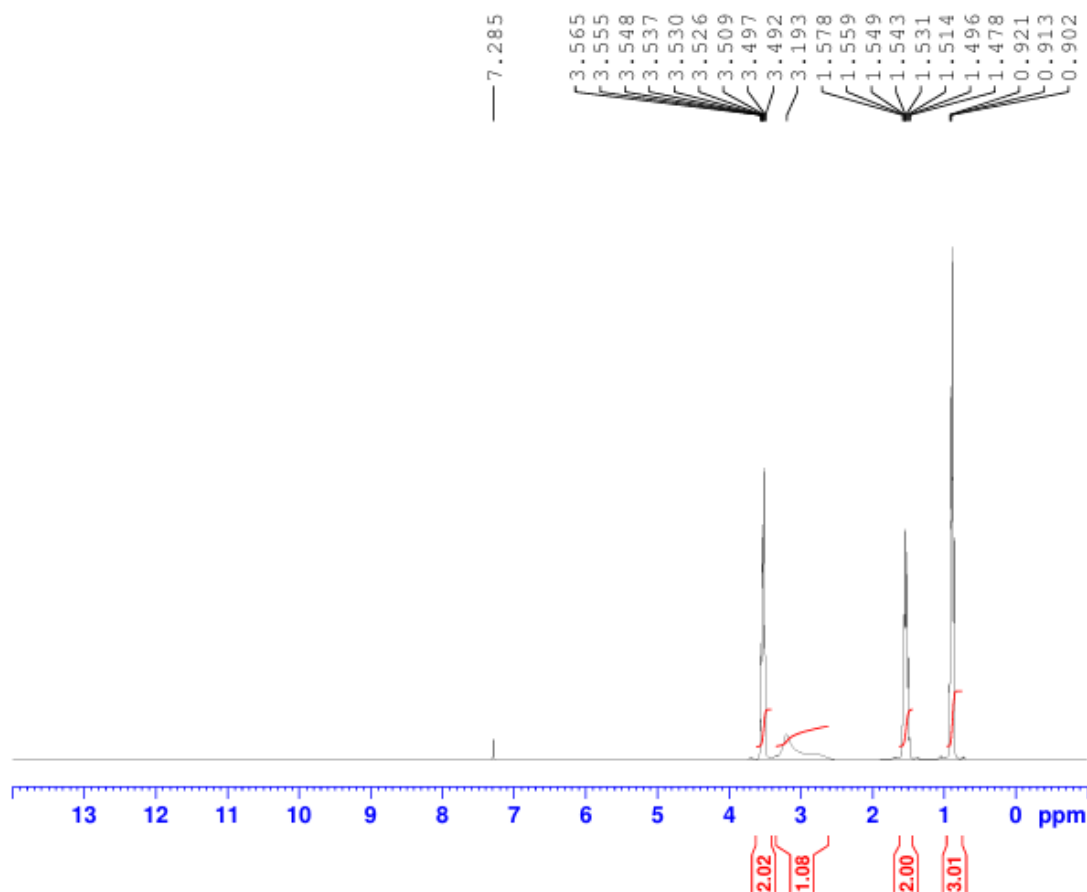
¹H NMR Spectrum:

Product Name: 1-Propanol

Product Code: PSR28299

1-Propanol
B.NO-P28299H1125
1H-NMR in CDCL₃

PureSynth[®]
Research Chemicals



Identification by ¹H NMR: Conforms to structure

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Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR28299) = **0.6300 %**

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

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