

## 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: C<sub>3</sub>H<sub>8</sub>O  
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%    |
| <sup>1</sup> 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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### ASSAY BY GC-FID

**METHOD:** GC- FID conditions:

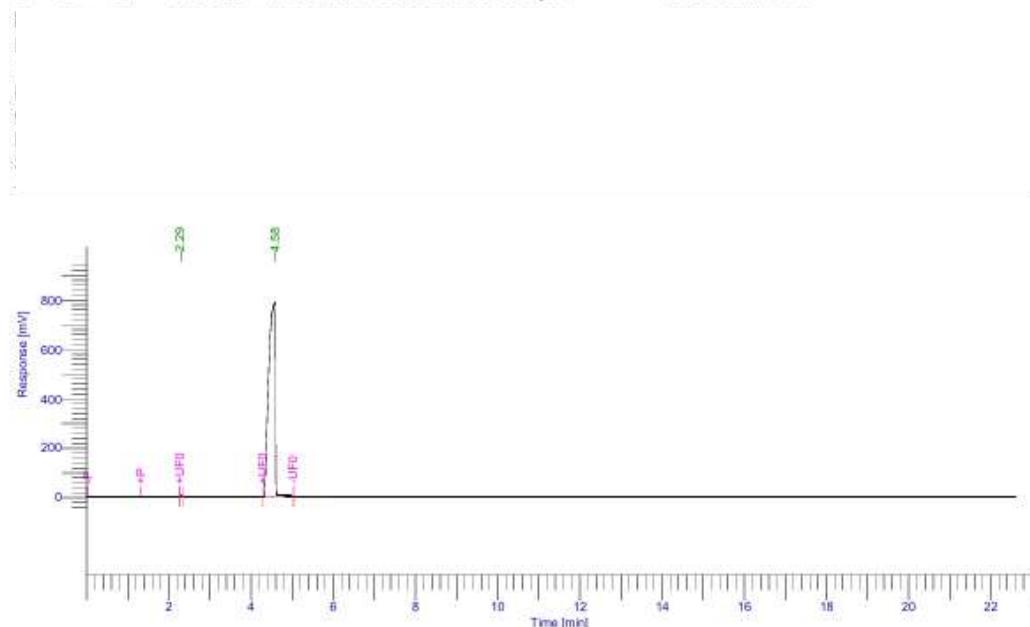
**Column:** Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

**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       | Area Reject     | : | 0.000000               |
| Sample Volume         | : | 1.000000 ul         | Dilution Factor | : | 1.00                   |
| Sample Amount         | : | 1.0000              | Cycle           | : | 1                      |
| Data Acquisition Time | : | 29-11-2025 14:21:01 |                 |   |                        |



| 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

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### GC-MS Spectrum:

**METHOD:** GC-MS conditions:

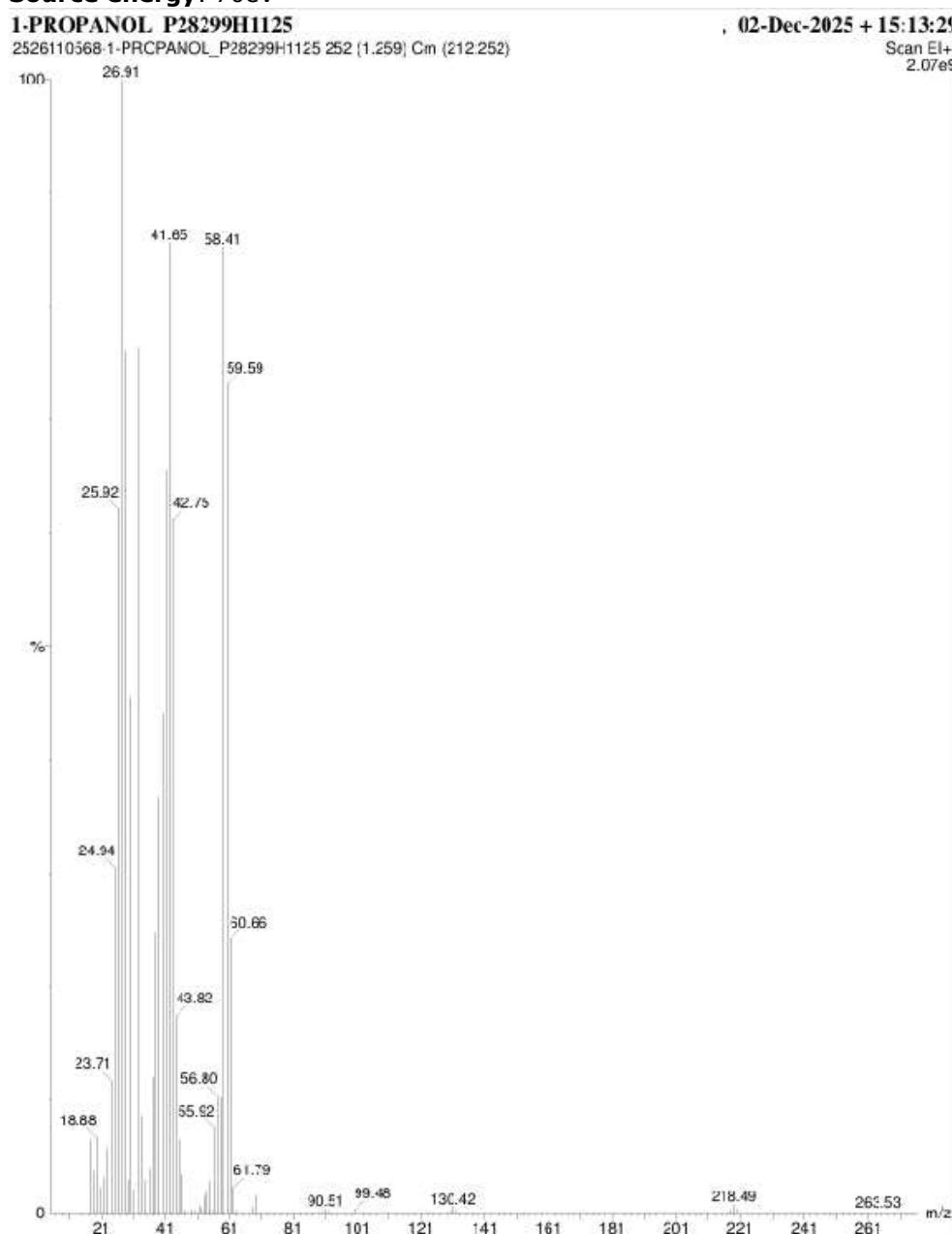
**Column:** Agilent Technologies, Elite -5MS, 30 m X 0.25 mm, 1.0micron

**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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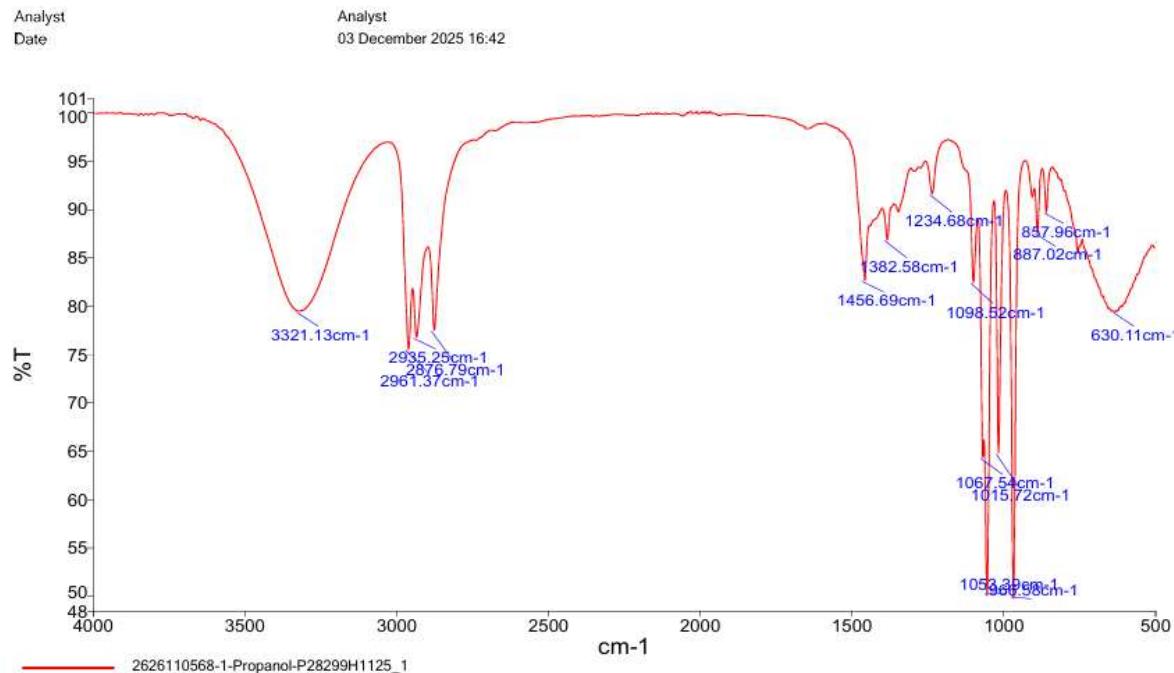
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**Infrared spectrum:**

**Product Name:** 1-Propanol

**Product Code:** PSR28299



| Source Spectra Results              |                       |        |
|-------------------------------------|-----------------------|--------|
| Spectrum Name                       | Number Of Peaks       |        |
| 2626110568-1-Propanol-P28299H1125_1 |                       |        |
| 15                                  |                       |        |
| List of Peak Area/Height            |                       |        |
| Peak Number                         | X (cm <sup>-1</sup> ) | 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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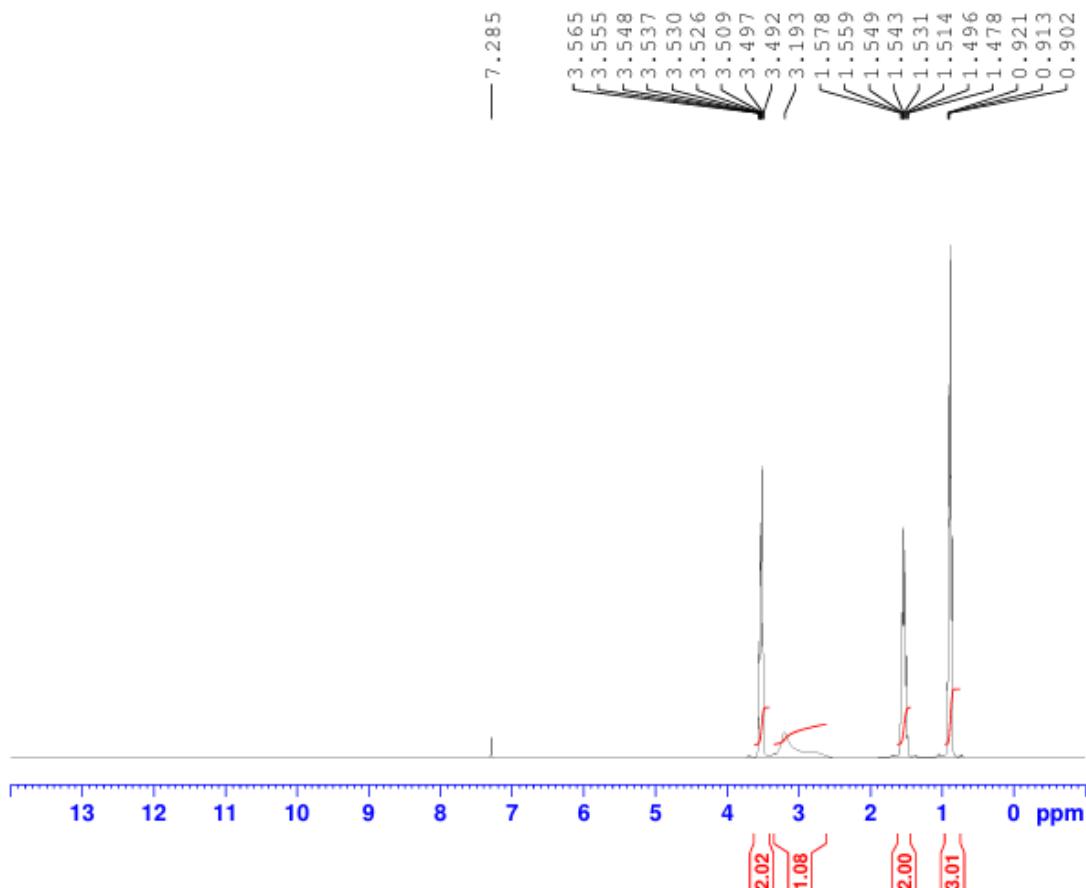
**Pure Synth®**  
Research Chemicals

***<sup>1</sup>H NMR Spectrum:***

**Product Name:** 1-Propanol

**Product Code:** PSR28299

1-Propanol  
B.NO-P28299H1125  
1H-NMR in CDCl<sub>3</sub>



**Identification by <sup>1</sup>H NMR: Conforms to structure**

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### Maximum limits of impurities

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#### WATER DETERMINATION

Method: Karl Fisher titration

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

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#### 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](http://www.pure-synth.com)

Inspect on receipt

#### Storage Condition:

Store at room temperature and keep the container tightly closed

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PureSynth Research Chemicals GmbH

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

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