

Certificate of Analysis

Product Name:

Eicosane PurTech Standard for GC [Includes all characterization data]

Product No.: PSI1066
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 112-95-8
Molecular Formula: C₂₀H₄₂
Molecular Weight: 282.56 g/mol
Date of Mfg.: NA
Date of Exp.: NA

| Test | Specification | Result |
|--------------------------------------|--------------------------------|---------------------------------|
| Appearance | White Solid | White Solid |
| Assay (By GC) | ≥ 98.0 % | 98.31 % |
| Water (By KF) | NMT 0.500 % | 0.481 % |
| Potency | - | 112-95-8 |
| Density | 0.750 -0.800 g/cm ³ | C ₂₀ H ₄₂ |
| Identification by ¹ H NMR | Conforms to structure | 282.56 g/mol |
| Identification by GC-MS | Conforms to molecular mass | Conforms |
| Identification by IR | Conforms to structure | Conforms |

*** Traceable to USP Reference Standard 1800175, Lot no: F254A0**

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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:

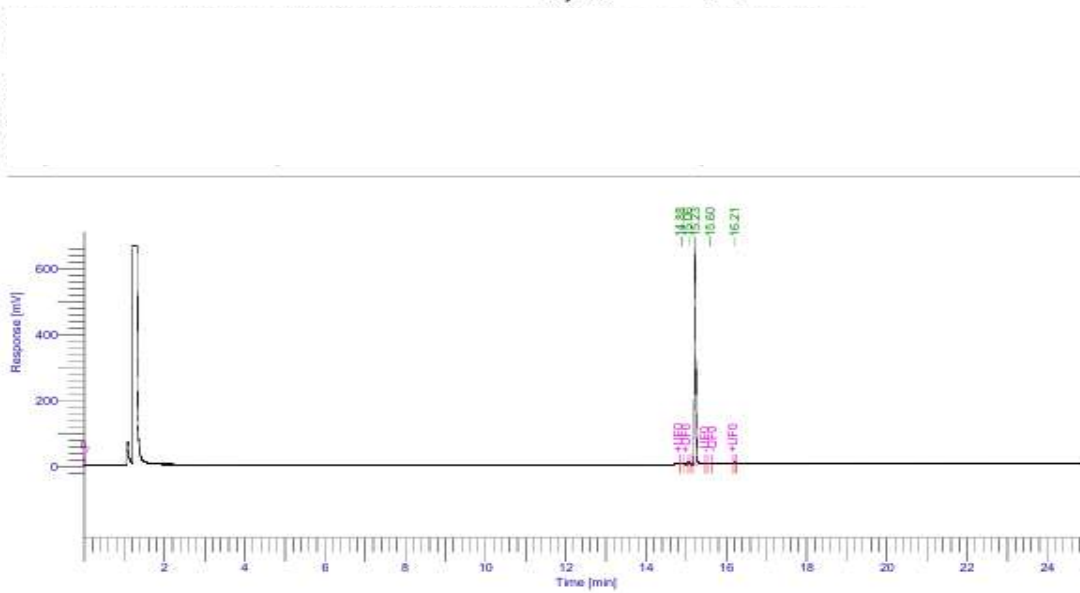
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

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 | : 07-04-2026 11:49:06 |
| Operator | : manager | Sample Name | : EICOSANE_E1066B0326 |
| Sample Number | : 001 | Study | : |
| AutoSampler | : BUILT-IN | Rack/Vial | : 0/33 |
| Instrument Name | : Clarus 690 | Channel | : A |
| Instrument Serial # | : 690S23050206 | A/D mV Range | : 1000 |
| Delay Time | : 0.00 min | End Time | : 25.00 min |
| Sampling Rate | : 12.5000 pts/s | | |
| Sample Volume | : 1.000000 ul | Area Reject | : 0.000000 |
| Sample Amount | : 1.0000 | Dilution Factor | : 1.00 |
| Data Acquisition Time | : 06-04-2026 17:12:02 | Cycle | : 1 |



GC Reports

| Peak # | Component Name | Time [min] | Area [uV*sec] | Height [uV] | Area [%] |
|--------|----------------|------------|---------------|-------------|----------|
| 1 | | 14.880 | 4565.16 | 2148.68 | 0.32 |
| 2 | | 15.057 | 10038.59 | 5460.46 | 0.71 |
| 3 | | 15.227 | 1394735.95 | 660648.62 | 98.09 |
| 4 | | 15.600 | 2934.63 | 1383.95 | 0.21 |
| 5 | | 16.215 | 9674.22 | 5746.83 | 0.68 |
| | | | 1421948.54 | 675388.53 | 100.00 |

Missing Component Report
 Component Expected Retention (Calibration File)

All components were found

Assay by GC: 98.09 %

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IDENTIFICATION TESTS

GC-MS Spectrum:

METHOD: GC-MS conditions:

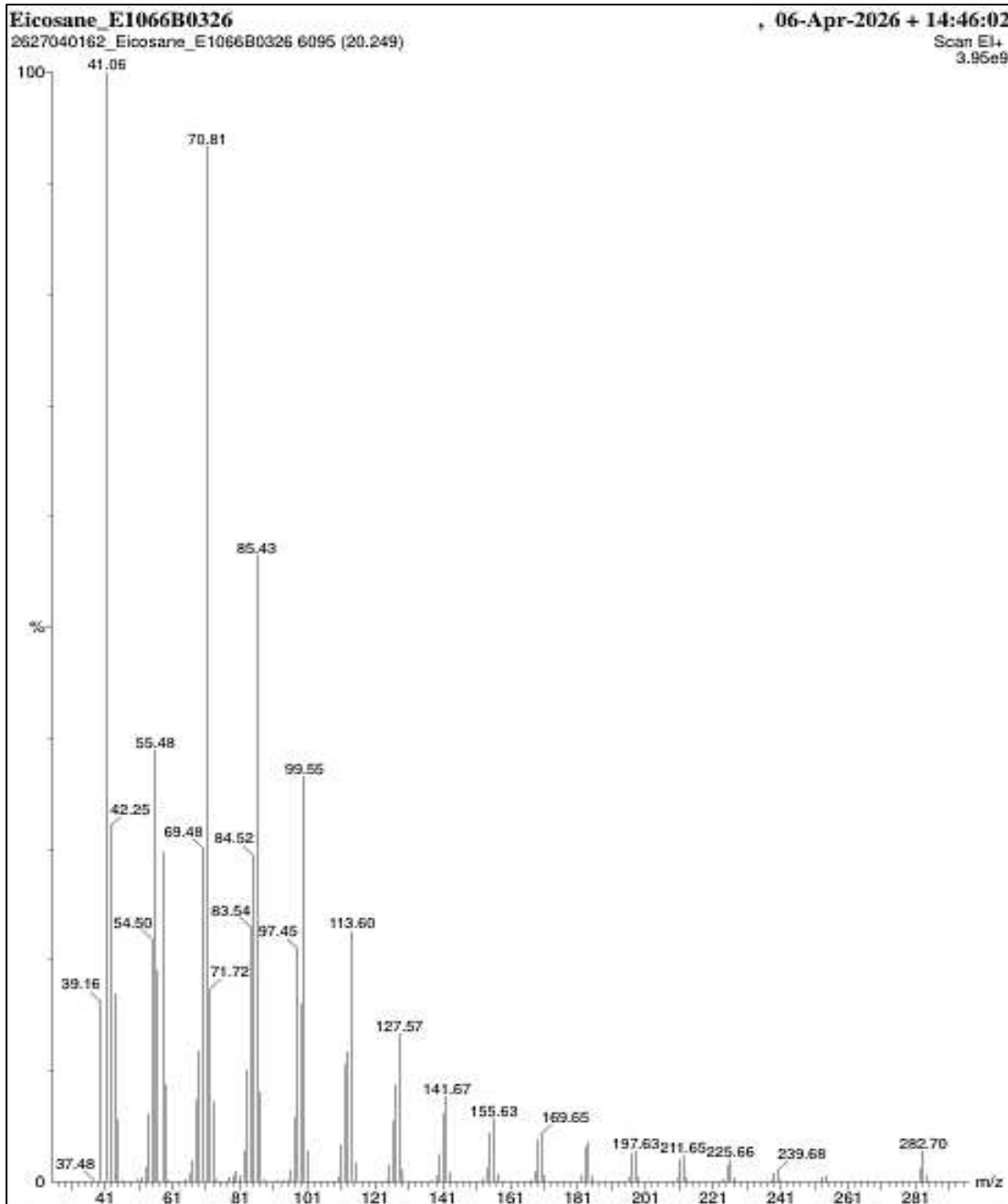
Column: Agilent Technologies, Elite -5MS, 30 m X 0.25 mm, 1.0micron

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

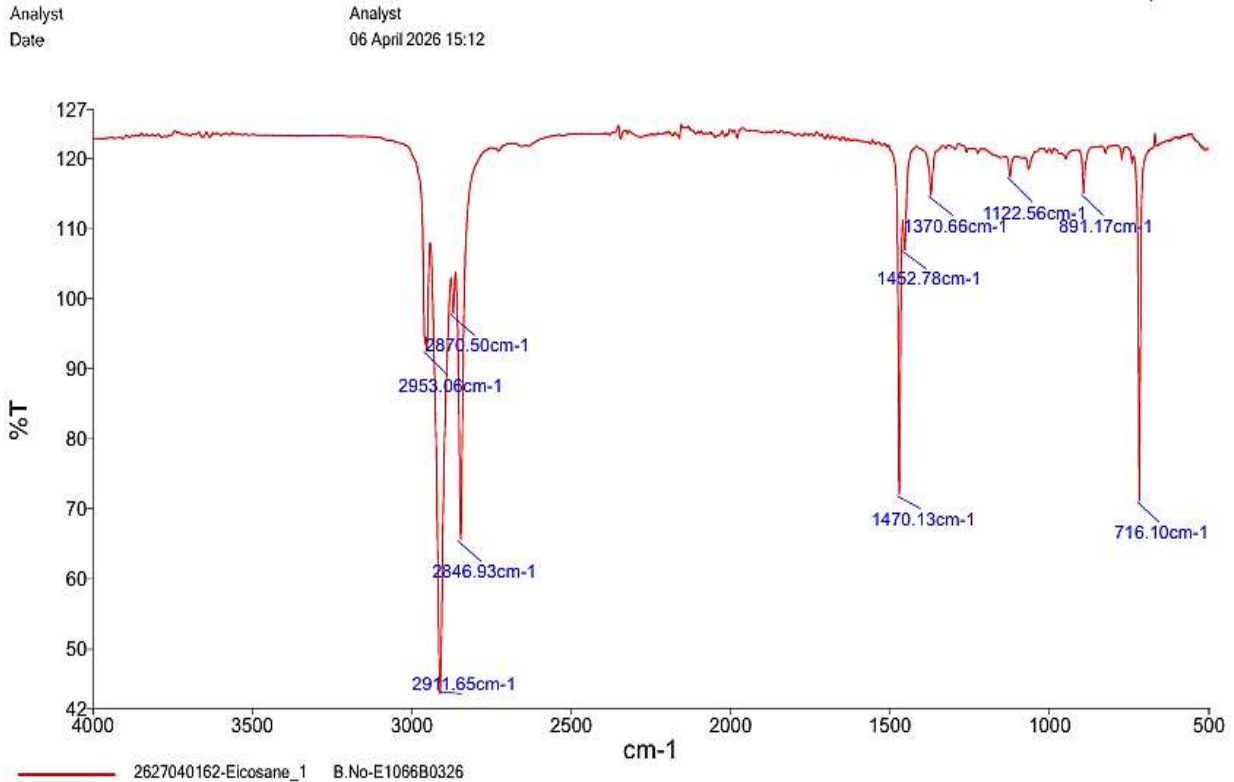
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Infrared spectrum:

Product Name: Eicosane
Product Code: PSI1066

PerkinElmer Spectrum IR Version 10.7.2
 06 April 2026 15:12



| Source Spectra Results | |
|------------------------|-----------------|
| Spectrum Name | Number Of Peaks |
| 2627040162-Eicosane_1 | 10 |

| List of Peak Area/Height | | |
|--------------------------|----------|--------|
| Peak Number | X (cm-1) | Y (%T) |
| 1 | 2953.06 | 92.63 |
| 2 | 2911.65 | 43.64 |
| 3 | 2870.50 | 97.94 |
| 4 | 2846.93 | 65.67 |
| 5 | 1470.13 | 72.10 |
| 6 | 1452.78 | 106.95 |
| 7 | 1370.66 | 114.78 |
| 8 | 1122.56 | 117.43 |
| 9 | 891.17 | 115.04 |
| 10 | 716.10 | 71.21 |

Identification by IR: Conforms to structure

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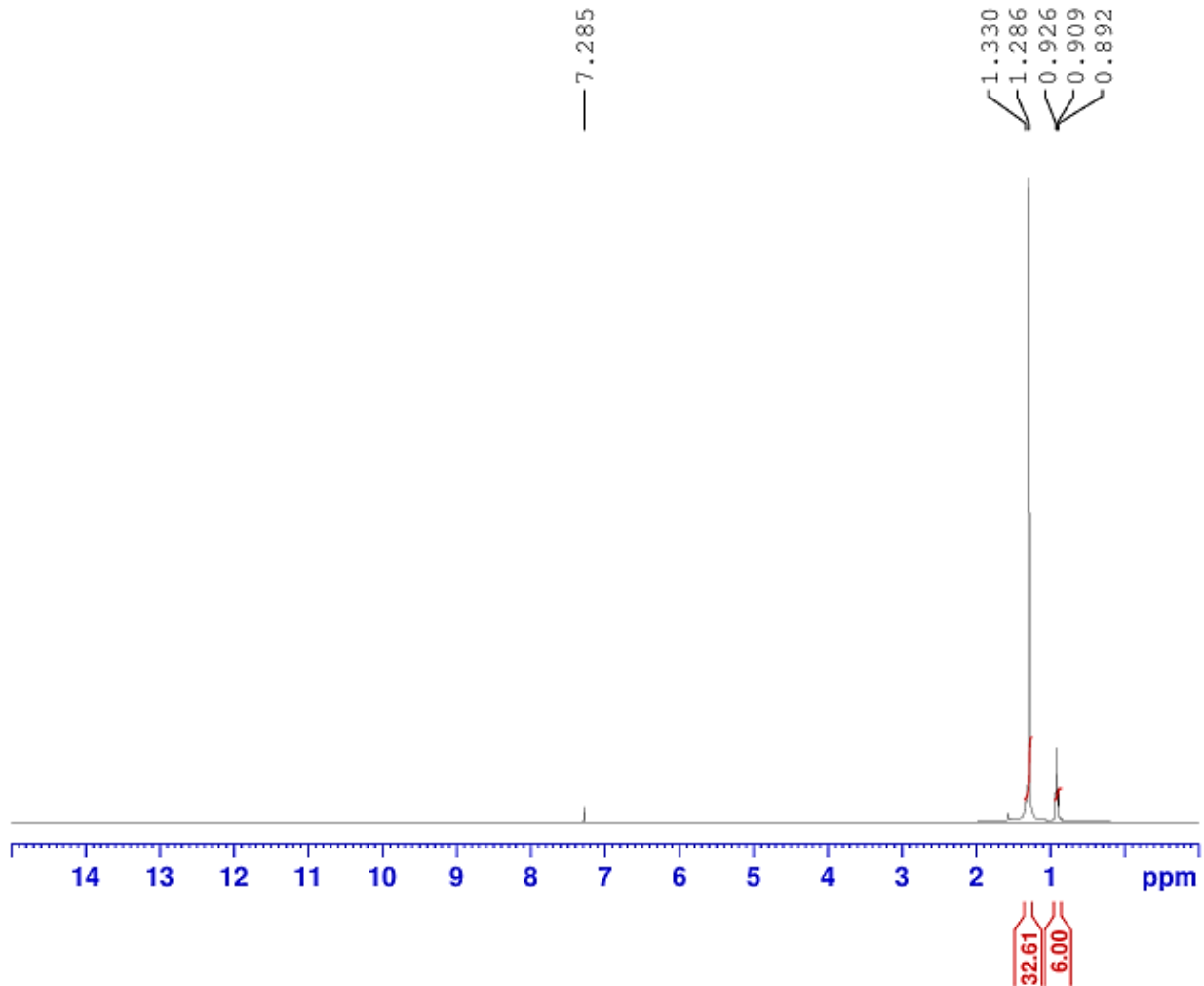
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Website: www.pure-synth.com
Phone: 1800-8908-260
Email: info@pure-synth.com

¹H NMR Spectrum:

Product Name: Eicosane
Product Code: PSI1066

Eicosane
B.NO-E1066B0326
¹H-NMR in CDCL₃



Identification by ¹H NMR: Conforms to structure

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Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSI1066) = **0.472 %**

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 a temperature of 2-8 °C and keep the container tightly closed.

PureSynth Research Chemicals GmbH

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

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