

Certificate of Analysis

Chlorotrimethyl silane

PurCert Standard for GC

Product Number	PSR28363	CAS No.	75-77-4
Brand	PureSynth	Lot No.	C2836SP0125
Molecular Formula	C ₃ H ₉ ClSi	Date of Mfg.	January,2025
Molecular Weight	108.64 g/mol	Date of Exp.	December,2028

Test	Specification	Result
Description	Colorless Liquid	Colorless Liquid
Assay (GC-FID)	≥ 98.0 %	99.06 %
Water (By KF)	NMT 0.500 %	0.234 %
Density	0.850-0.860 g/cm ³	0.854 g/cm ³
Identification by ¹ H NMR	Conforms to structure	Conforms
Identification by GC-MS	Conforms to molecular mass	Conforms
Identification by IR	Conforms to structure	Conforms

***Traceable to Internal Reference Standard**

Storage Condition: Store at ambient temperature and keep container tightly closed in a dry and well-Ventilated place.

Remark: The batch complies with the prescribed quality of the above specification.

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Toll free no. 1800-8908-260, Email: info@pure-synth.com , Website: www.pure-synth.com

Assay by GC-FID

METHOD: GC- FID conditions:

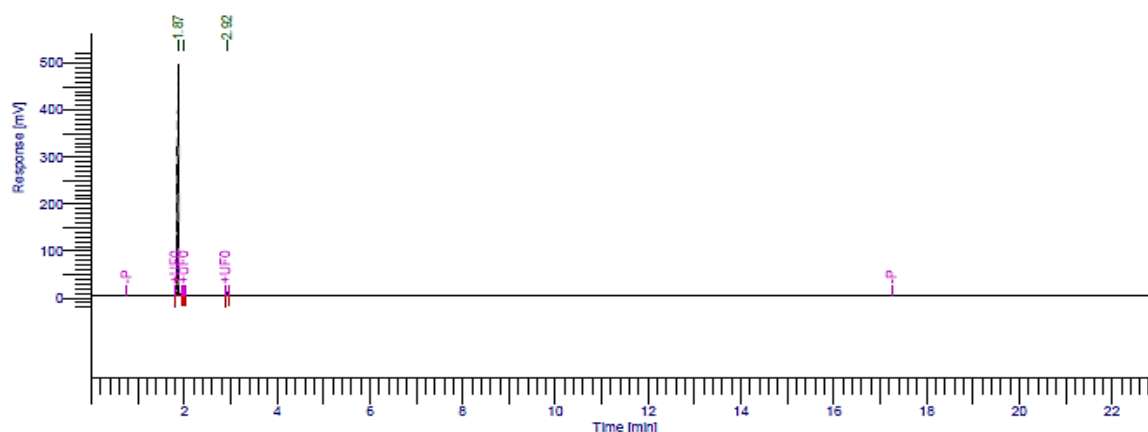
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

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	: 03-02-2025 11:01:57
Operator	: manager	Sample Name	: CHLOROTRIMETHYL SILANE
Sample Number	: 001	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 0/19
Instrument Name	: Clarus 690	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 23.00 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	: 03-02-2025 10:02:26	Cycle	: 1



GC Reports

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		1.869	923337.08	489909.43	99.06
2		2.001	1338.75	1950.03	0.14
3		2.920	7434.32	5614.18	0.80
			932110.14	497473.64	100.00

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Purity by GC-FID: 99.06 %

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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

Mass by GC-MS:

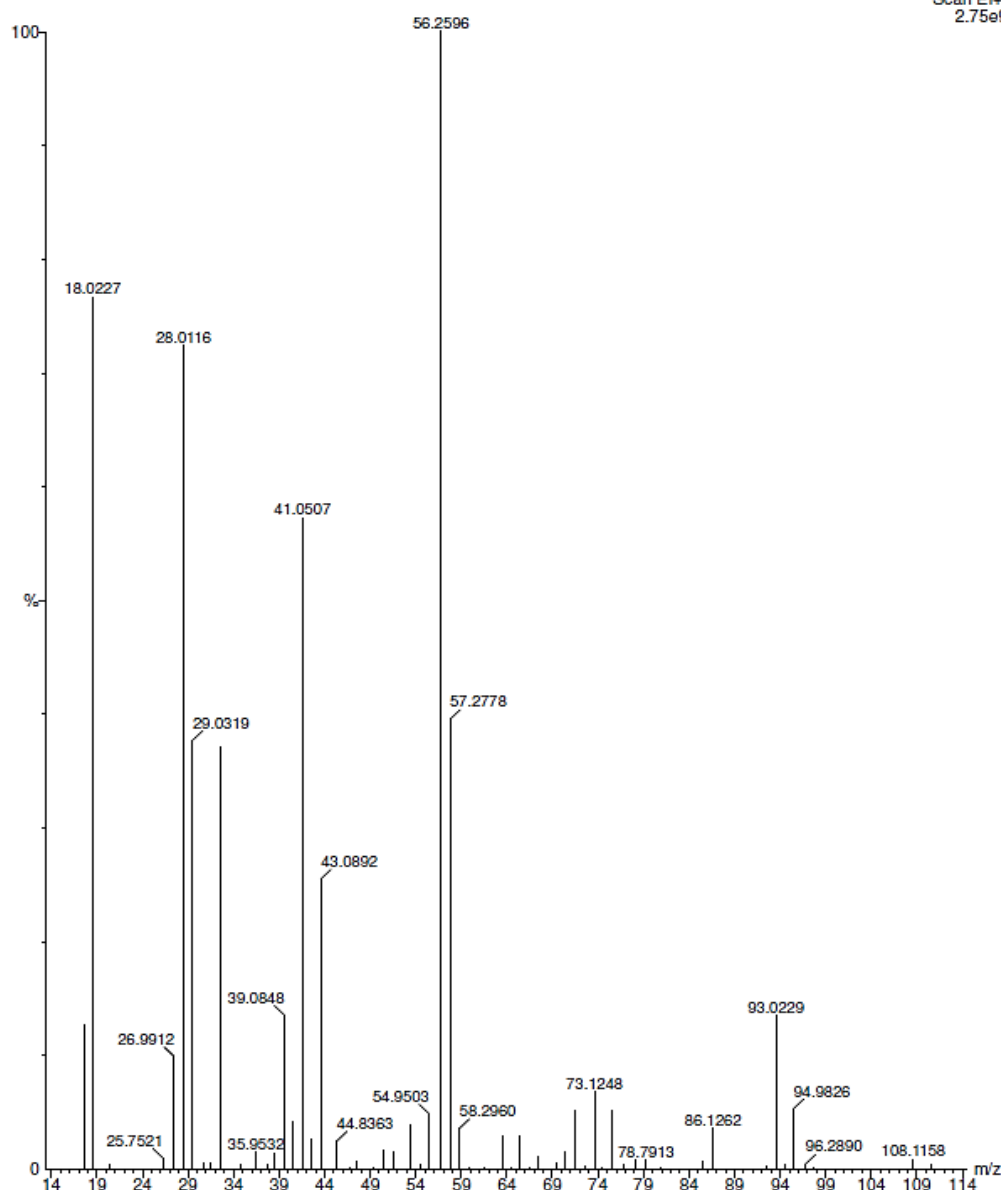
Product Name: Chlorotrimethyl silane

Product Code: PSR28363

CHLOROTRIMETHYL SILANE

, 03-Feb-2025 + 10:17:46

Scan El+
2.75e9



Identification by GC-MS: Conforms to molecular mass

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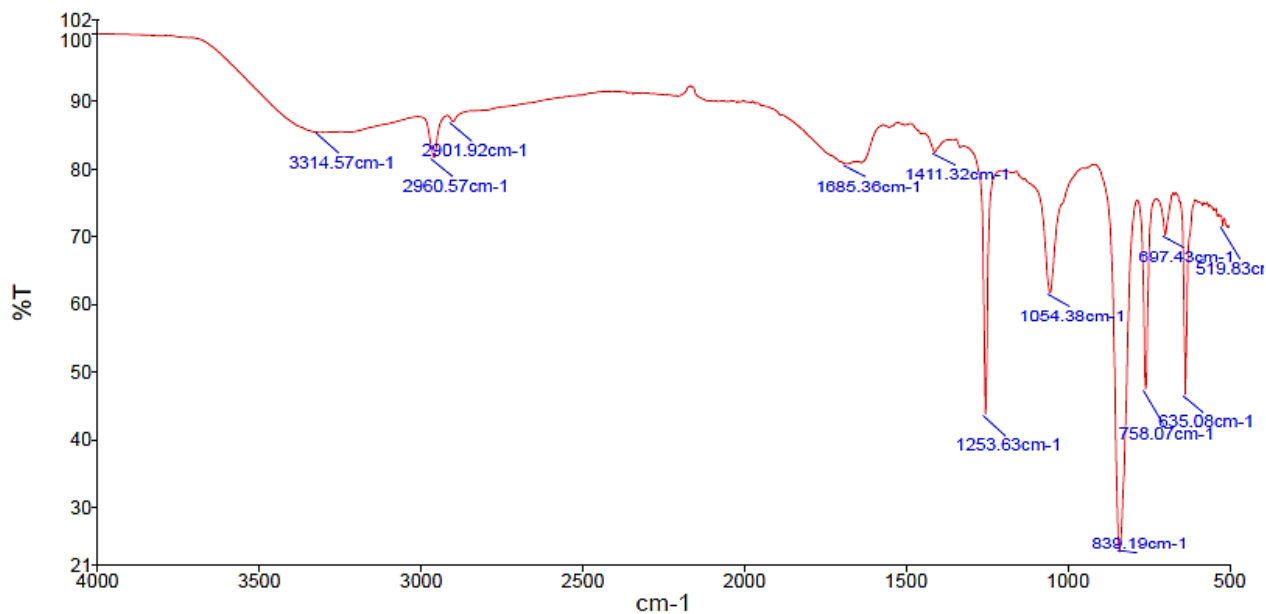
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Infrared spectrum:

Product Name: Chlorotrimethyl silane

Product Code: PSR28363

Analyst
Date



AR250000125-Chlorotrimethylsilane-C2836SP0125_1

Sample 022 By Analyst Date Saturday, February 01 2025

Source Spectra Results		
Spectrum Name		Number Of Peaks
AR250000125-Chlorotrimethylsilane-C2836SP0125_1		12
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	3314.57	85.49
2	2960.57	81.75
3	2901.92	87.08
4	1685.36	80.79
5	1411.32	82.54
6	1253.63	43.82
7	1054.38	61.77
8	839.19	23.38
9	758.07	47.51
10	697.43	70.30
11	635.08	46.72
12	519.83	71.67

Identification by IR: Conforms to structure

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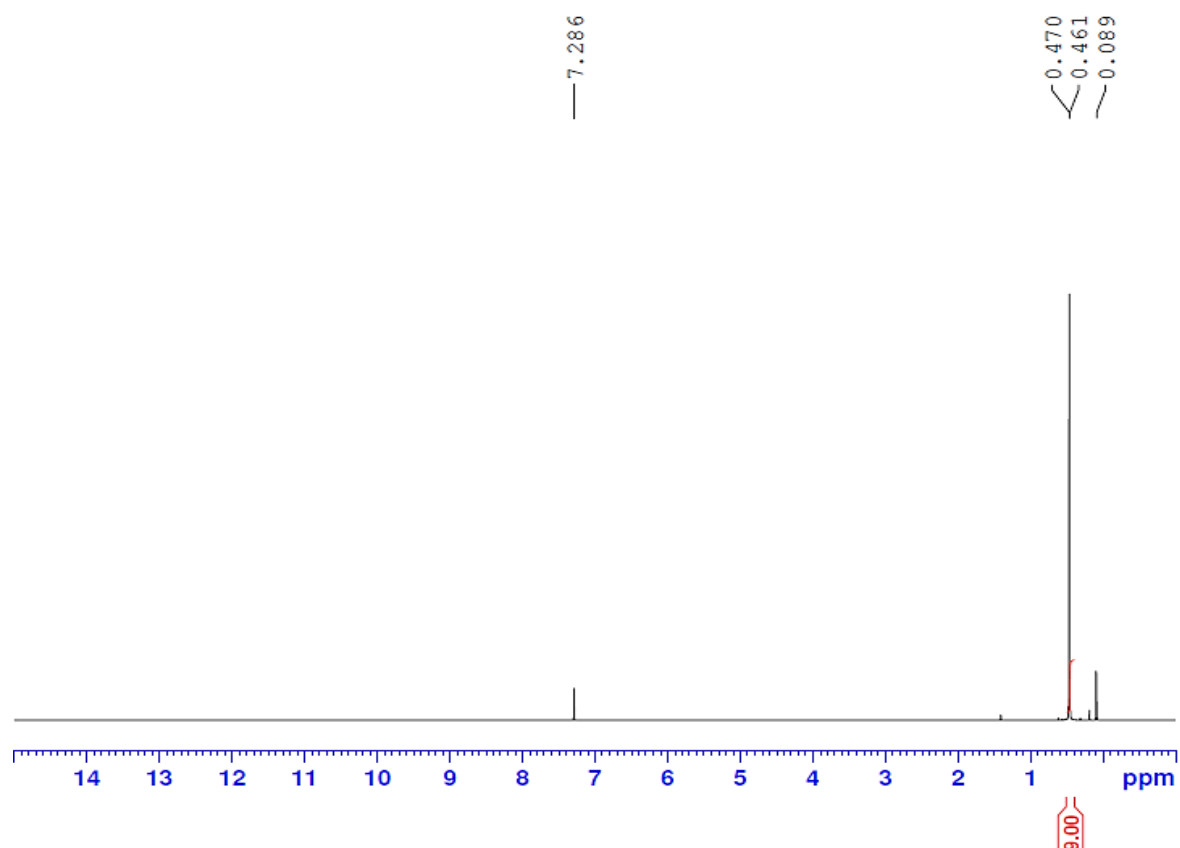
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¹H NMR Spectrum:

Product Name: Chlorotrimethyl silane

Product Code: PSR28363

Chlorotrimethyl silane
B.No: C2836SP0125
1H-NMR in CDCL₃



Identification by ¹H NMR: Conforms to structure

Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR28363) = **0.234 %**

Approved By
Head - Technical

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