

Certificate of Analysis

N-Nitrosodiisopropylamine(NDIPA)

Product Number	PSR37121	CAS No.	601-77-4
Brand	PureSynth	Lot No.	N7121CS1023
Molecular Formula	C ₆ H ₁₄ N ₂ O	Date of Mfg.	Oct.2023
Molecular Weight	130.19 g/mol	Date of Exp.	Sep.2027

Test	Specification	Result
Description	Pale yellow Solid	Pale yellow Solid
Assay (GC-FID)	≥ 99.0 %	99.95 %
Water (By KF)	NMT 0.2000 %	0.1185 %
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

Storage Condition: Store at a temperature of 2-8°C and keep the container tightly closed.

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

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Assay by GC-FID

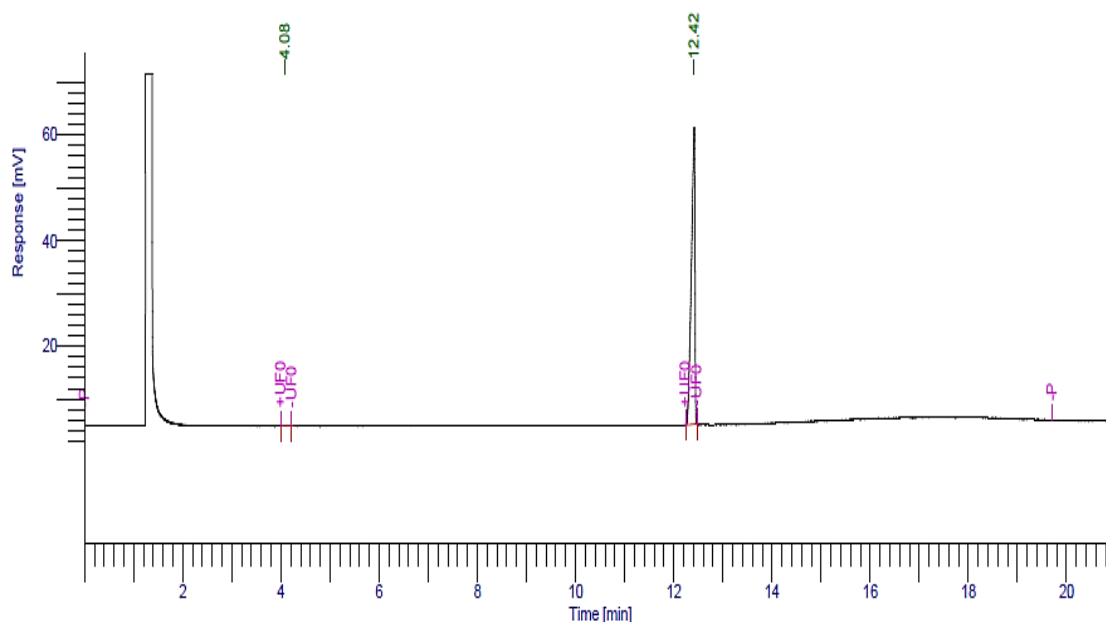
METHOD: GC- FID conditions:

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.



GC Reports

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		4.083	149.48	28.51	0.05
2		12.416	277513.50	56127.61	99.95
		277662.98	56156.12	100.00	

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Purity by GC-FID: 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

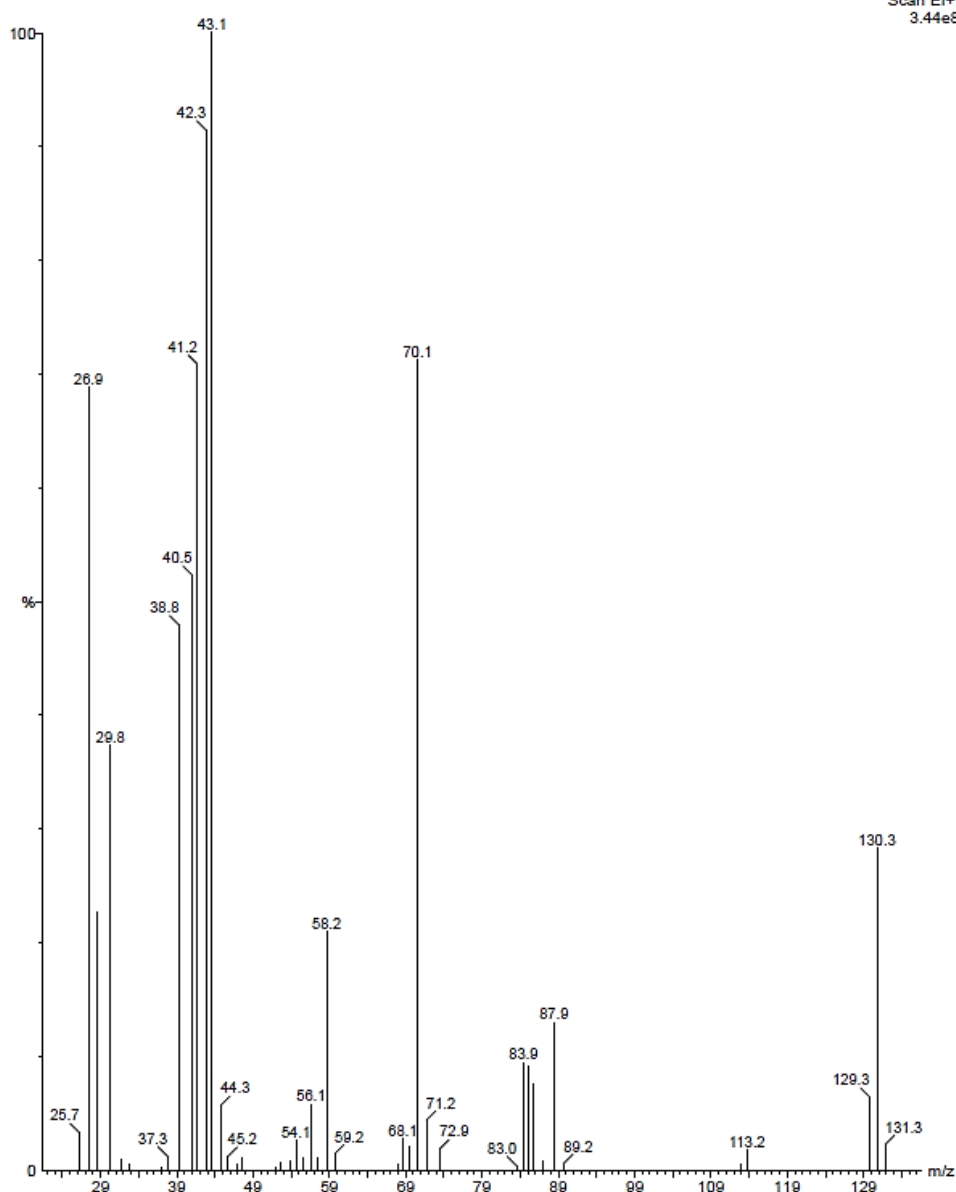
Source energy: 70eV

Mass by GC-MS:

Product Name: N-Nitrosodiisopropylamine

Product Code: PSR37121

, 02-Nov-2023 + 12:27:32
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3.44e8



Identification by GC-MS: Conforms to molecular mass

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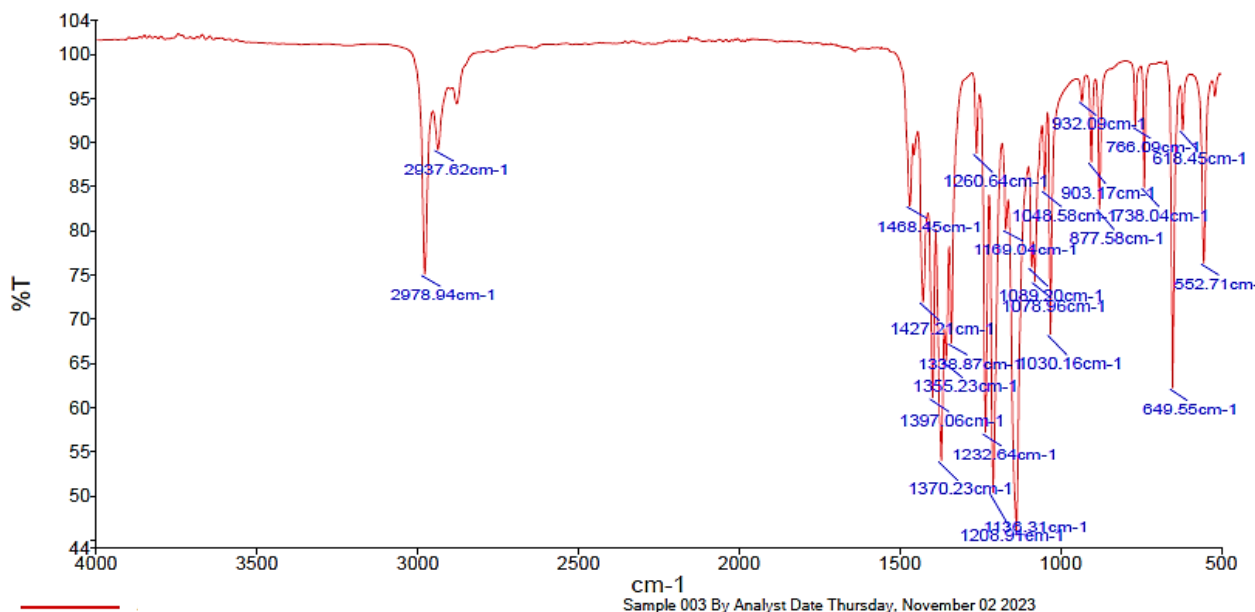
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Infrared spectrum:

Product Name: N-Nitrosodiisopropylamine

Product Code: PSR37121

Analyst
Date



Source Spectra Results		
Spectrum Name		Number Of Peaks
AR23000138		25
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	2978.94	75.12
2	2937.62	89.24
3	1468.45	82.87
4	1427.21	71.99
5	1397.06	61.12
6	1370.23	54.03
7	1355.23	65.31
8	1338.87	67.34
9	1260.64	88.81
10	1232.64	57.19
11	1208.91	50.36
12	1169.04	80.18
13	1136.31	45.53
14	1089.20	75.93
15	1078.96	74.28
16	1048.58	84.63
17	1030.16	68.33
18	932.09	94.71
19	903.17	87.80
20	877.58	82.56
21	766.09	91.85
22	738.04	84.95
23	649.55	62.24
24	618.45	91.43
25	552.71	76.38

Identification by IR: Conforms to structure

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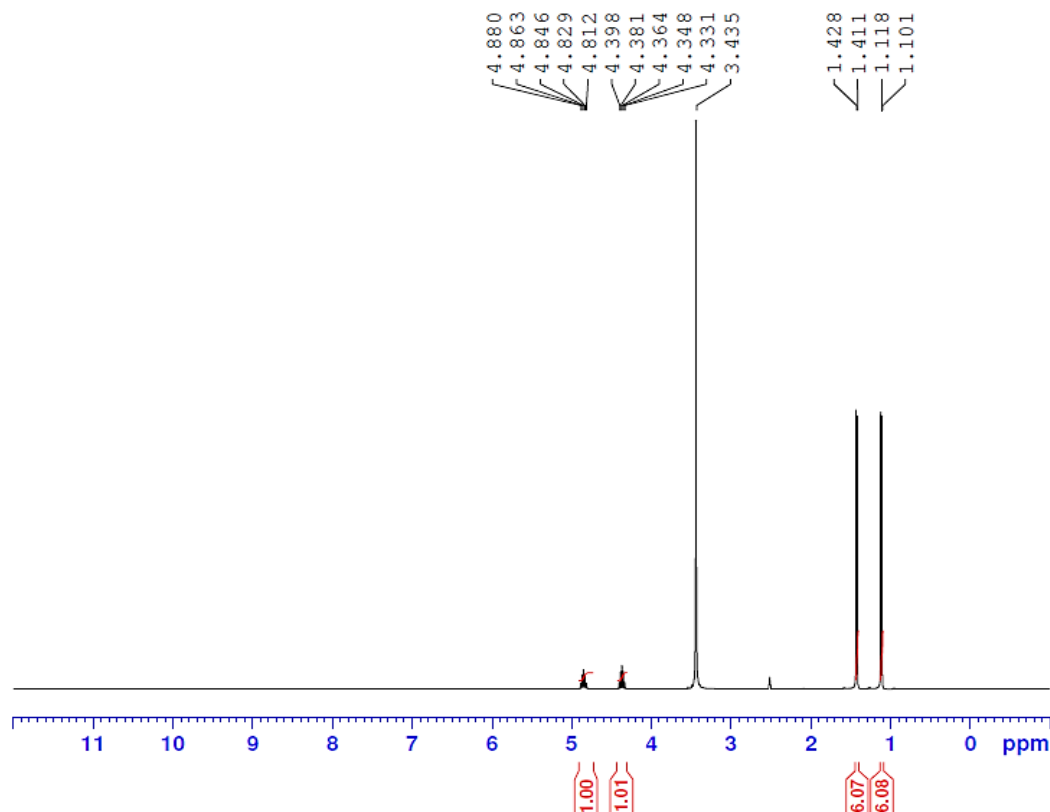
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¹H NMR Spectrum:

Product Name: N-Nitrosodiisopropylamine

Product Code: PSR37121

N-Nitrosodiisopropylamine
B.no-N37123CS0823
1H-NMR in DMSO



Identification by ¹H NMR: Conforms to structure

Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR37121) = **0.1185 %**

Approved By
Head - Technical

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