

Certificate of Analysis

2-(Benzyl(methyl)amino)ethan-1-ol

PurCert Standard for GC

(Secondary Reference Standard)

Product Number	PSR42879	CAS No.	101-98-4
Brand	PureSynth	Lot No.	B42879B0324
Molecular Formula	C ₁₀ H ₁₅ NO	Date of Mfg.	March,2024
Molecular Weight	165.23 g/mol	Date of Exp.	February,2027

Test	Specification	Result
Description	Colorless liquid	Colorless liquid
Assay (GC-FID)	≥ 99.5 %	99.98 %
Water (By KF)	NMT 1.000 %	0.5177 %
Density		1.017 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 USP Reference Standard 1064122, Lot no: R170A0**

Storage Condition: Store at room temperature 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:

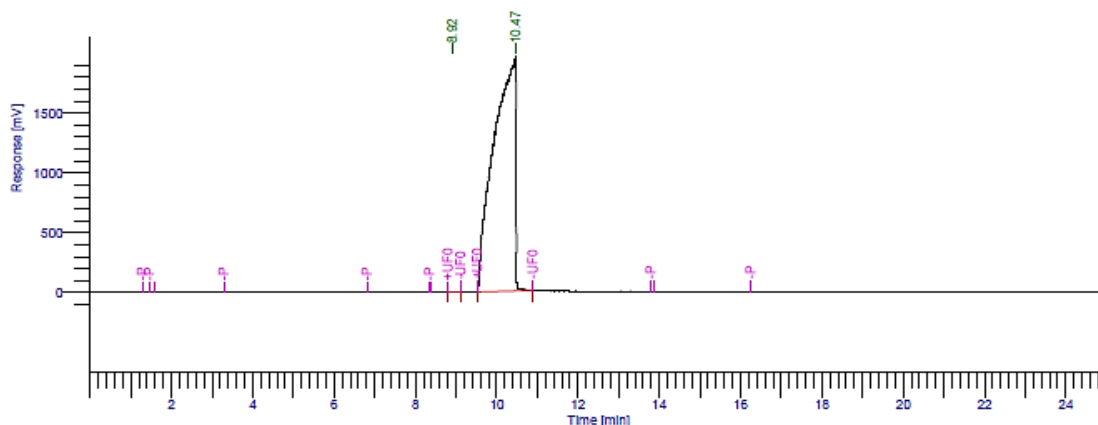
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

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.

Software Version	: 6.3.4.0700	Date	: 29-04-2024 10:32:05
Operator	: manager	Sample Name	: 2-(Benzyl(methyl)amino)ethanol
Sample Number	: 001	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 0/43
Instrument Name	: Clarus 690	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 25.00 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	: 26-04-2024 12:30:15		



GC Reports

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		8.919	16125.50	1525.42	0.02
2		10.467	72800492.81	1.96e+06	99.98
			72816618.31	1.96e+06	100.00

Warning -- Signal level out-of-range in peak

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Purity by GC-FID: 99.98 %

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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

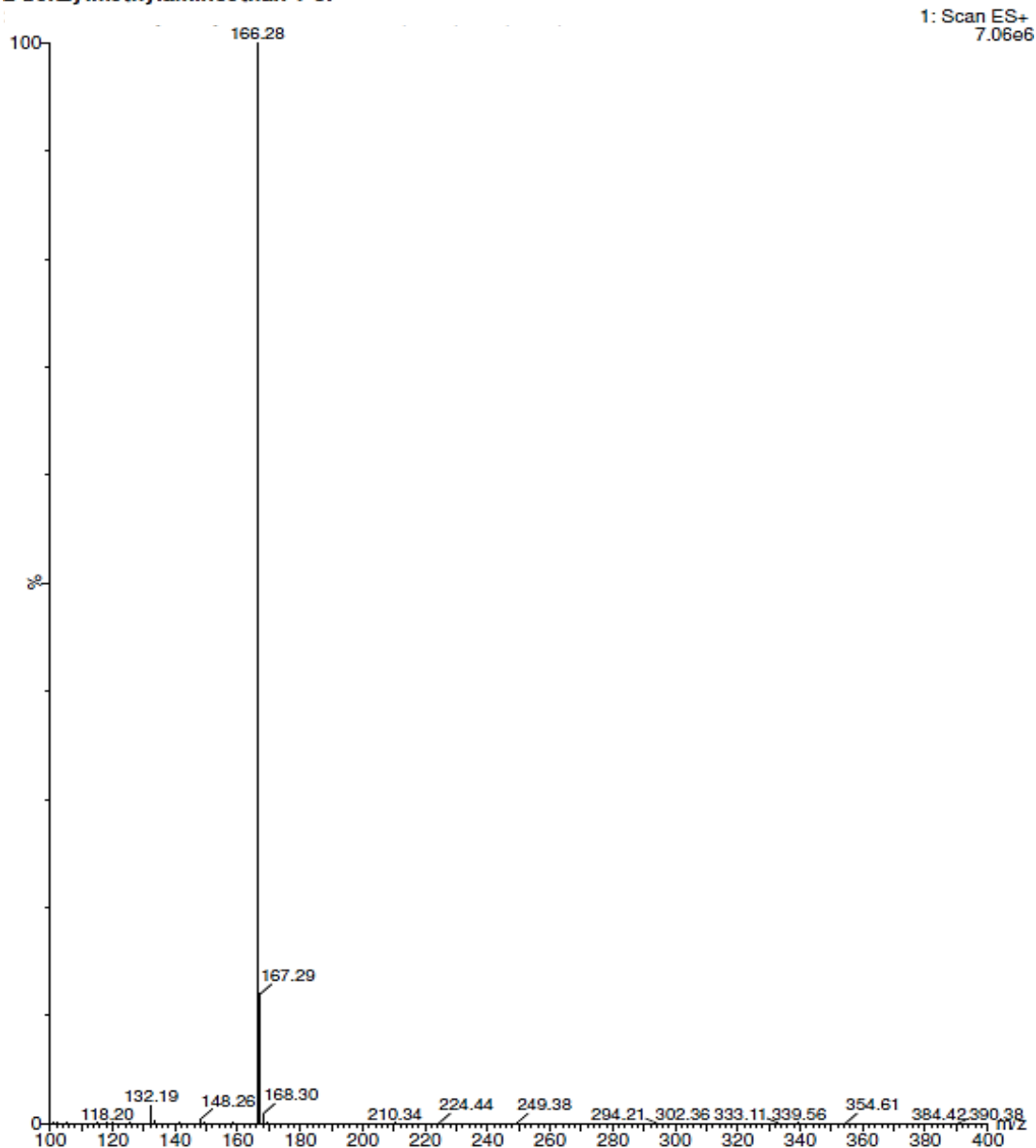
Source energy: 70eV

Mass by GC-MS:

Product Name: 2-(Benzyl(methyl)amino)ethan-1-ol

Product Code: PSR42879

2-benzylmethylaminoethan 1-ol



Identification by GC-MS: Conforms to molecular mass

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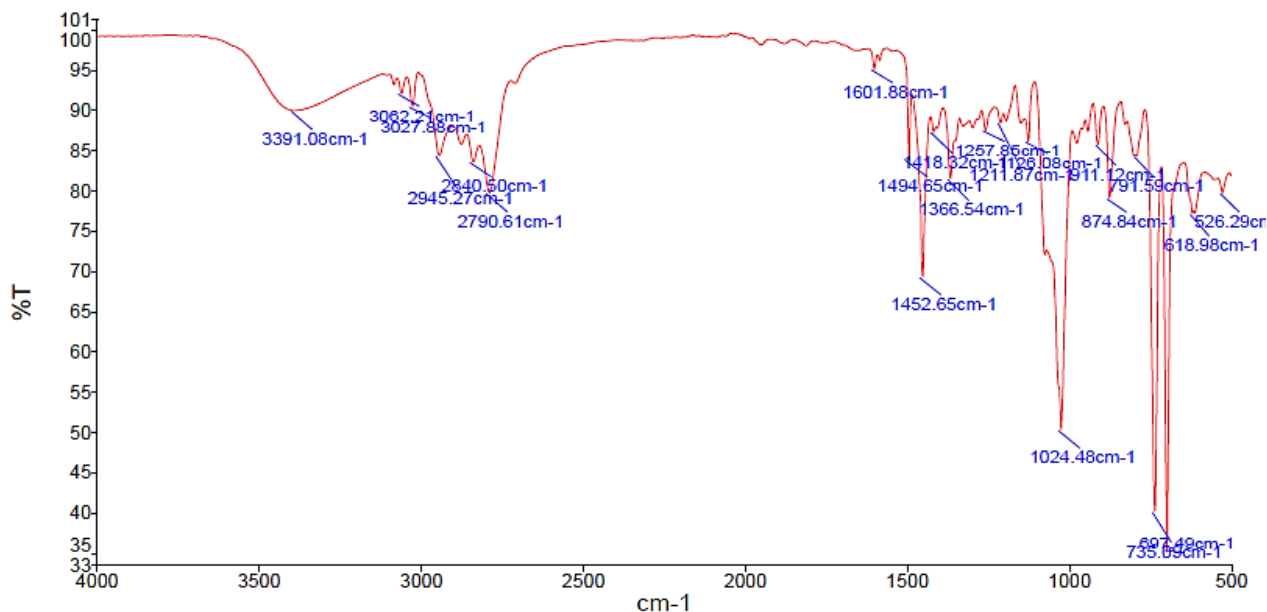
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Infrared spectrum:

Product Name: 2-(Benzyl(methyl)amino)ethan-1-ol

Product Code: PSR42879

Analyst
Date



AR24000226-2-(BENZYL(METHYL)AMINO)ETHAN 1-OL-B42879B0324_1 Sample 005 By Analyst Date Saturday, April 27 2024

Source Spectra Results		
Spectrum Name	Number Of Peaks	
AR24000226-2-(BENZYL(METHYL)AMINO)ETHAN 1-OL-B42879B0324_1	22	
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	3391.08	90.04
2	3062.21	92.18
3	3027.88	90.58
4	2945.27	84.47
5	2840.50	83.68
6	2790.61	79.84
7	1601.88	95.21
8	1494.65	83.87
9	1452.65	69.36
10	1418.32	87.43
11	1366.54	81.61
12	1257.85	87.63
13	1211.87	88.54
14	1126.08	86.20
15	1024.48	50.38
16	911.12	85.84
17	874.84	79.17
18	791.59	84.42
19	735.09	40.24
20	697.49	35.09
21	618.98	77.26
22	526.29	79.85

Identification by IR: Conforms to structure

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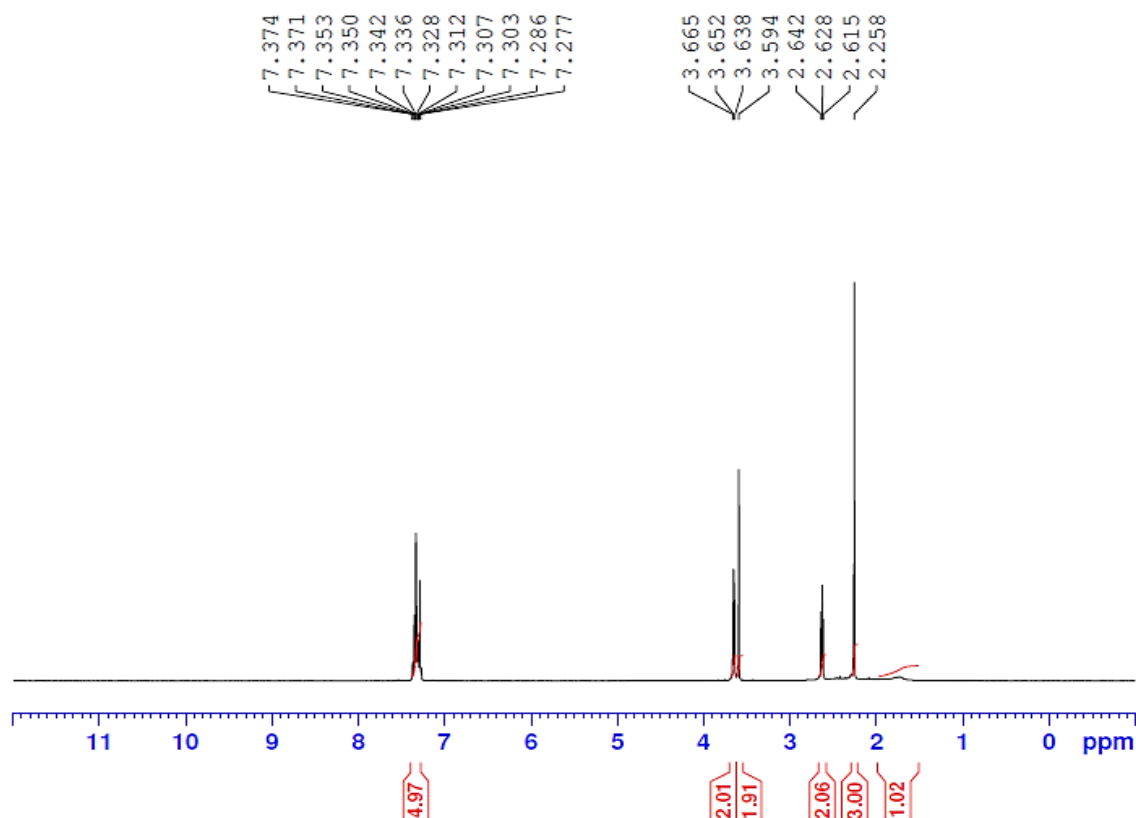
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¹H NMR Spectrum:

Product Name: 2-(Benzyl(methyl)amino)ethan-1-ol

Product Code: PSR42879

2-(Benzyl(Methyl)amino)ethan 1-ol
Batch No: B42879B0324
1H-NMR in CDCL3



Identification by ¹H NMR: Conforms to structure

Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR42879) = **0.5177 %**

Approved By
Head - Technical

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