

Certificate of Analysis

N,N-Dimethylaniline

PurCert Standard

Product Number	PSR28340	CAS No.	121-69-7
Brand	PureSynth	Lot No.	N28340T1224
Molecular Formula	C ₈ H ₁₁ N	Date of Mfg.	December,2024
Molecular Weight	121.18 g/mol	Date of Exp.	November,2027

Test	Specification	Result
Description	Colorless to yellow liquid	Yellow liquid
Assay (HPLC)	≥ 99.5 %	99.68 %
Water (By KF)	NMT 0.1 %	0.089 %
Identification by ¹ H NMR	Conforms to structure	Conforms
Identification by MS	Conforms to molecular mass	Conforms
Identification by IR	Conforms to structure	Conforms

***Traceable to Internal Reference standard.**

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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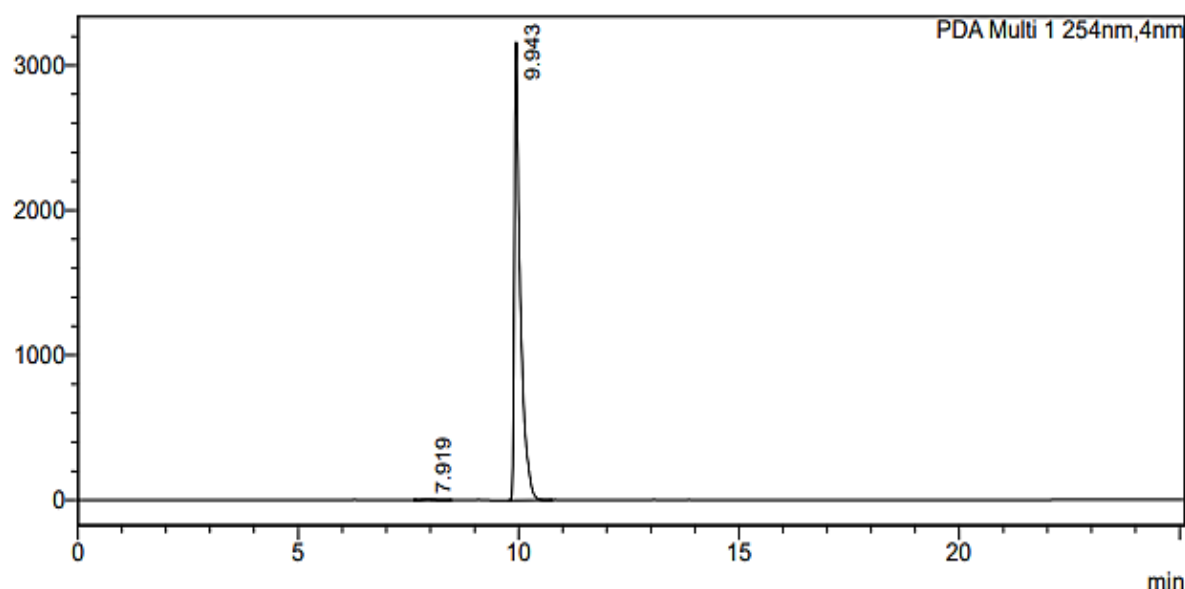
Worldwide Helpline No. 1800-120-1234-34 , Email: info@pure-synth.com , Website: www.pure-synth.com

Assay by HPLC

Sample Name : N,N-DIMETHYL ANILINE
Data Filename : AR24000929-N,N-DIMETHYL ANILINE.lcd
Method Filename : SHIMPACK-AA_90-ACN_10-25MIN.lcm
Batch Filename : 30-12-2024-1.lcb
Vial # : 1-37 Sample Type : Unknown
Injection Volume : 5 uL
Date Acquired : 12/30/2024 1:08:52 PM Acquired by : System Administrator
Date Processed : 12/31/2024 12:32:23 PM Processed by : System Administrator

<Chromatogram>

mAU



<Peak Table>

PDA Ch1 254nm

Peak#	Ret. Time	Area	Height	Area%
1	7.919	93170	5925	0.318
2	9.943	29209139	3160348	99.682
Total		29302309	3166273	100.000

Purity by HPLC: 99.68 %

IDENTIFICATION TESTS

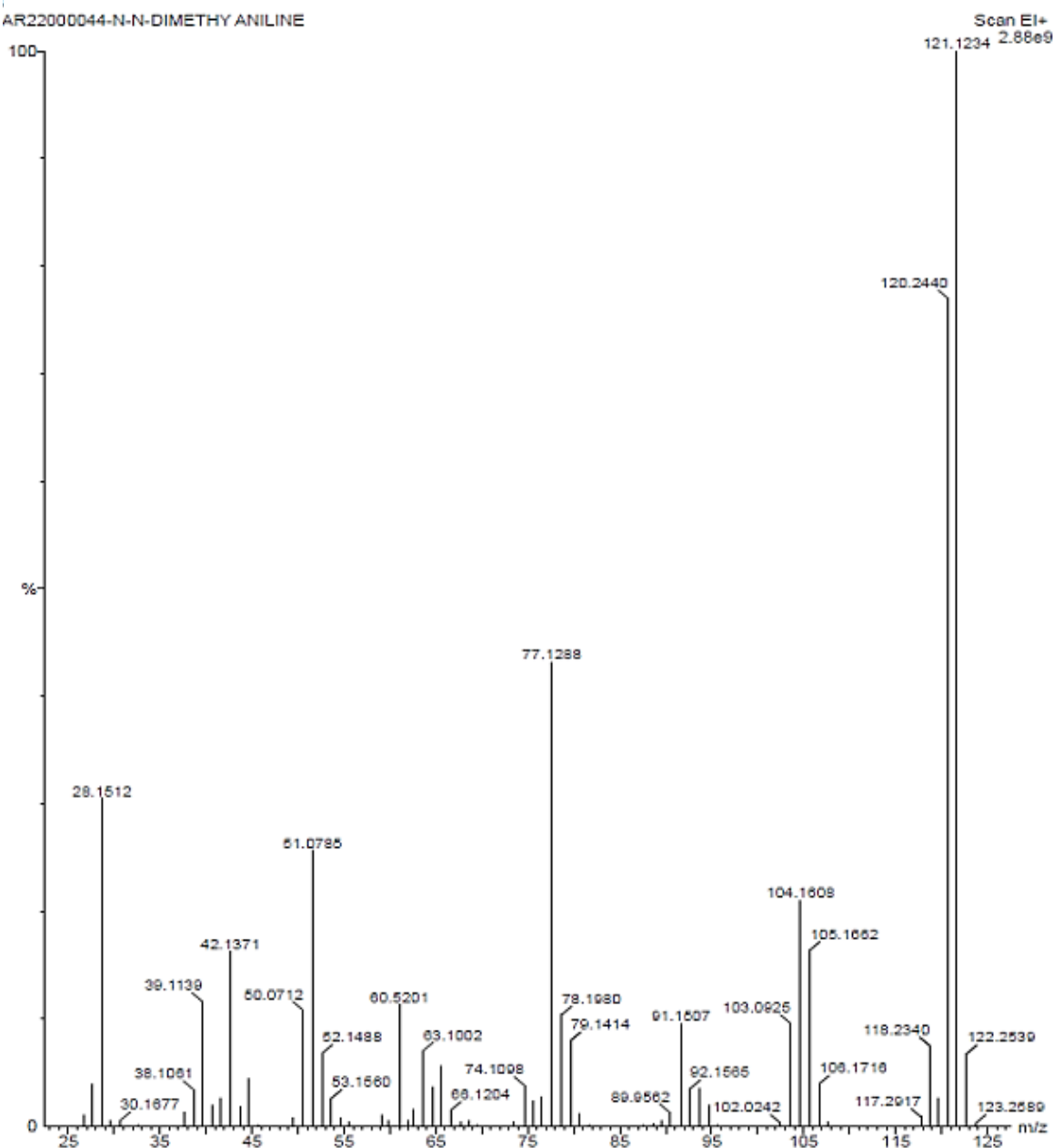
MS Spectrum:

Mass by MS:

Product Name: N,N-Dimethylaniline

Product Code: PSR28340

AR22000044-N,N-DIMETHYLANILINE



Identification by MS: Conforms to molecular mass

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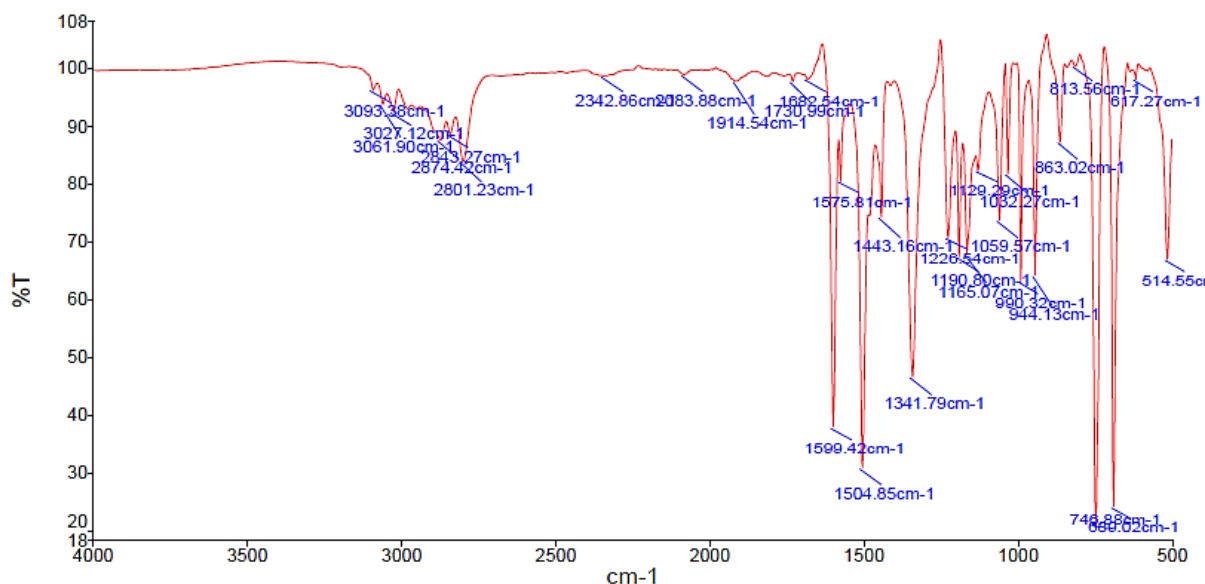
Infrared spectrum:

Product Name: N,N-Dimethylaniline

Product Code: PSR28340

Analyst

Date



AR24000851-N,N-Dimethyl aniline_1 Sample 012 By Analyst Date Friday, December 27 2024

Source Spectra Results		
Spectrum Name	Number Of Peaks	
AR24000851-N,N-Dimethyl aniline_1	30	
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	3093.38	96.34
2	3061.90	93.91
3	3027.12	92.54
4	2874.42	87.67
5	2843.27	88.73
6	2801.23	83.98
7	2342.86	98.68
8	2083.88	98.99
9	1914.54	97.86
10	1730.99	97.81
11	1682.54	98.21
12	1599.42	37.93
13	1575.81	80.55
14	1504.85	30.89
15	1443.16	74.31
16	1341.79	46.66
17	1226.54	70.74
18	1190.80	67.43
19	1165.07	67.94
20	1129.29	82.36
21	1059.57	73.77
22	1032.27	81.80
23	990.32	63.25
24	944.13	64.22
25	863.02	87.33
26	813.56	100.47
27	746.88	20.42
28	689.02	24.14
29	617.27	98.18
30	514.55	67.02

Identification by IR: Conforms to structure

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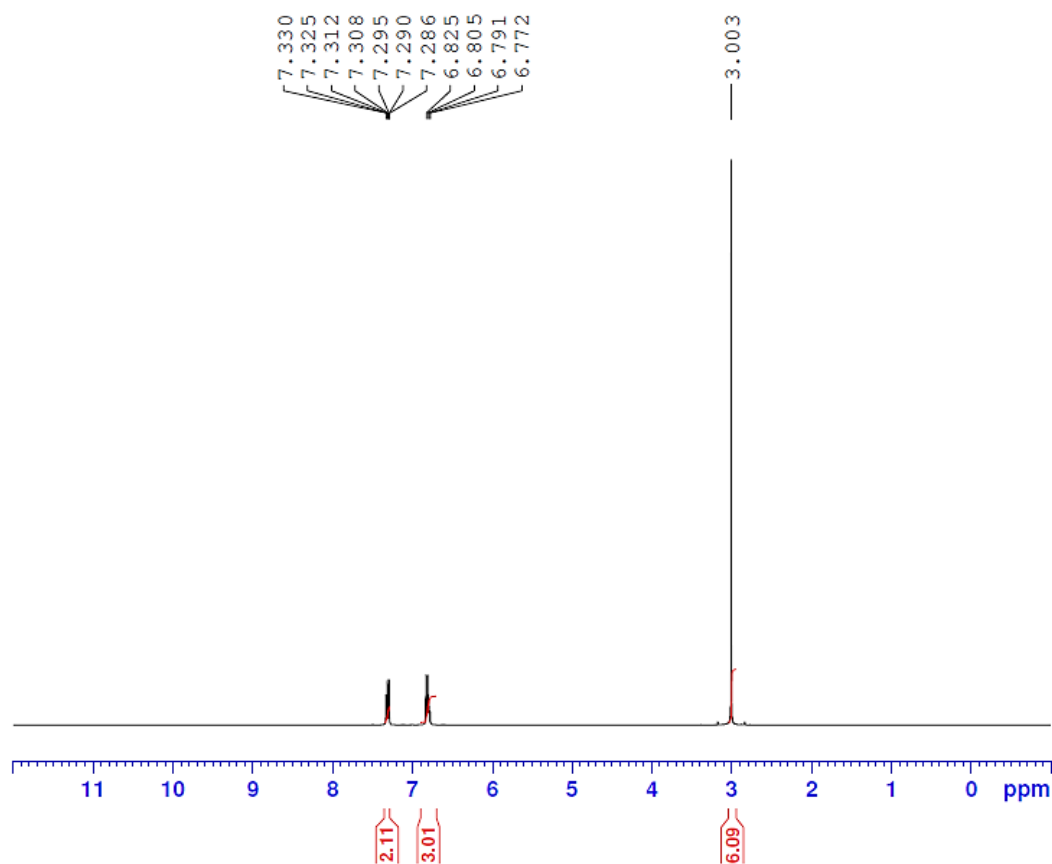
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¹H NMR Spectrum:

Product Name: N,N-Dimethylaniline

Product Code: PSR28340

N,N-Dimethyl aniline
1H-NMR in CDCL₃



Identification by ¹H NMR: Conforms to structure

Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR28340) = **0.089 %**

Approved By
Head - Technical

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