

Certificate of Analysis

3,5-Dichloroaniline

PurCert Standard for GC

Product Number	PSR47118	CAS No.	626-43-7
Brand	PureSynth	Lot No.	D47118T0525
Molecular Formula	C ₆ H ₅ Cl ₂ N	Date of Mfg.	May,2025
Molecular Weight	162.01 g/mol	Date of Exp.	April,2030

Test	Specification	Result
Description	White to Light yellow to Light red powder to crystal	Pale yellowish red crystalline powder
Assay (GC-FID)	≥ 99.5 %	99.72 %
Water (By KF)	NMT 0.5 %	0.108 %
Density	1.55-1.60 g/cm ³	1.58 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.

Assay by GC-FID

METHOD: GC- FID conditions:

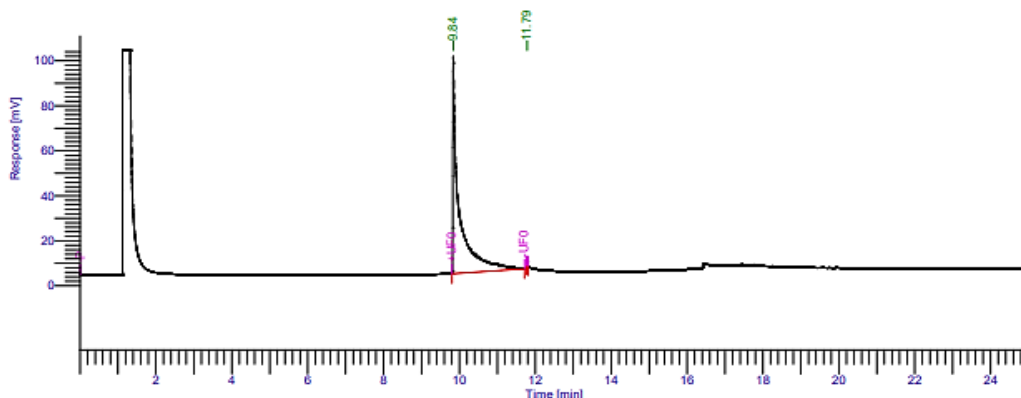
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

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	: 21-06-2025 13:01:50
Operator	: manager	Sample Name	: 3_5-DICHLOROANILINE-D47118T052
Sample Number	: 001		5
AutoSampler	: BUILT-IN		
Instrument Name	: Clarus 690	Study	:
Instrument Serial #	: None	Rack/Vial	: 0/3
Delay Time	: 0.00 min	Channel	: A
Sampling Rate	: 12.5000 pts/s	A/D mV Range	: 1000
Sample Volume	: 1.000000 ul	End Time	: 25.00 min
Sample Amount	: 1.0000		
Data Acquisition Time	: 21-06-2025 12:03:39	Area Reject	: 0.000000
		Dilution Factor	: 1.00



GC Reports

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		9.836	1080047.13	95690.96	99.72
2		11.785	3011.28	2149.53	0.28
		1083058.41	97840.49	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: 99.72 %

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: 3,5-Dichloroaniline

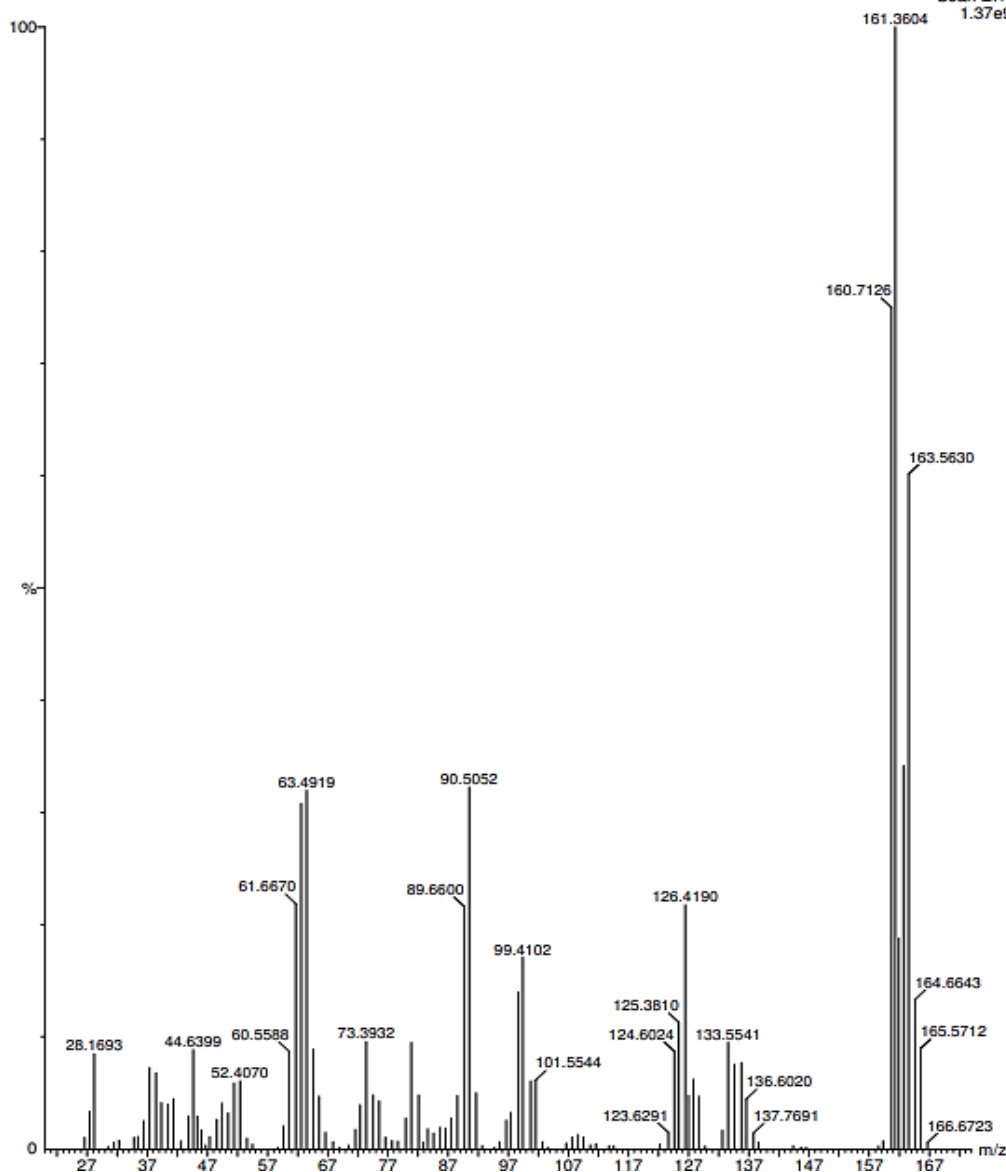
Product Code: PSR47118

3_5-DICHLOROANILINE-D47118T0525

, 21-Jun-2025 + 13:05:59

Scan EI+

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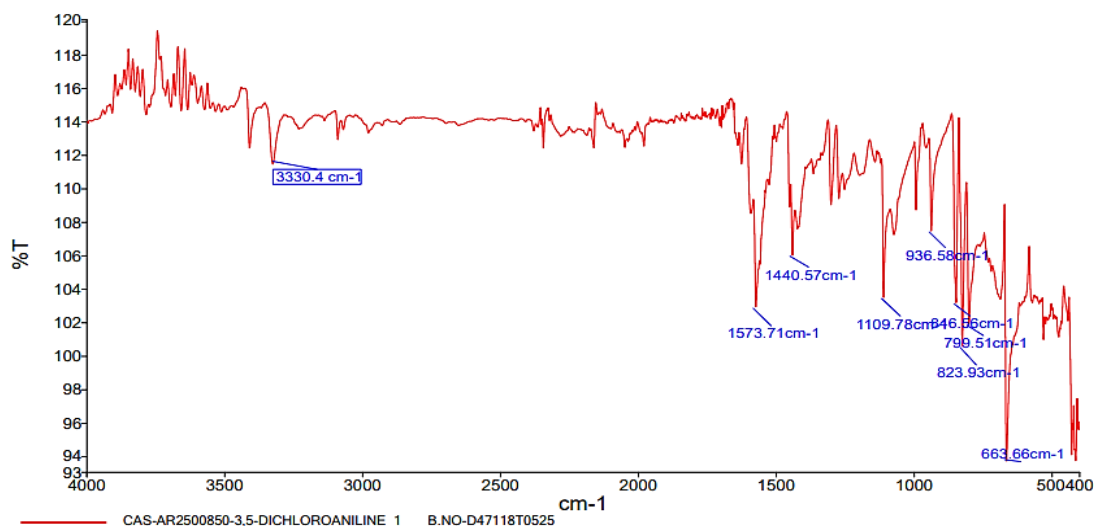
Identification by GC-MS: Conforms to molecular mass

Infrared spectrum:

Product Name: 3,5-Dichloroaniline

Product Code: PSR47118

Analyst
Date



Source Spectra Results		
Spectrum Name	Number Of Peaks	
CAS-AR2500850-3,5-DICHLOROANILINE_1	40	
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	3890.91	115.59
2	3843.64	115.98
3	3826.52	115.82
4	3807.75	115.54
5	3786.64	114.45
6	3696.70	114.92
7	3681.00	115.59
8	3659.96	114.70
9	3636.43	114.77
10	3574.45	114.76
11	3514.00	114.62
12	3411.39	112.46
13	3326.95	111.50
14	3090.99	112.97
15	2344.90	112.47
16	2161.38	112.47
17	2049.32	112.50
18	1979.74	112.57
19	1625.75	111.51
20	1573.71	102.95
21	1451.14	108.94
22	1440.57	106.05
23	1422.79	107.62
24	1300.62	109.06
25	1271.94	109.43
26	1196.05	110.82
27	1109.78	103.52
28	1072.41	107.27
29	991.97	108.75
30	936.58	107.49
31	846.56	103.21
32	823.93	100.60
33	799.51	101.93
34	685.86	103.42
35	663.66	93.72
36	528.86	100.99
37	473.81	101.15
38	440.50	102.11
39	426.89	94.09
40	412.56	93.74

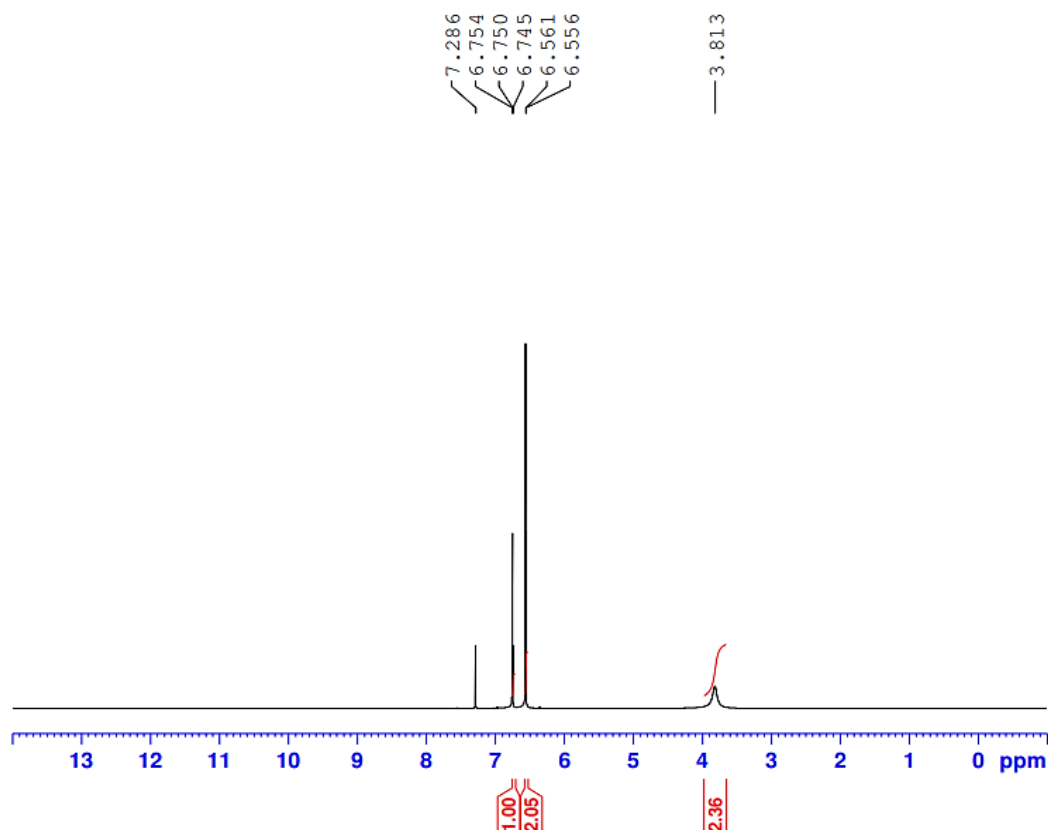
Identification by IR: Conforms to structure

¹H NMR Spectrum:

Product Name: 3,5-Dichloroaniline

Product Code: PSR47118

3,5-Dichloroaniline
Batch no-D47118T0525
¹H-NMR in CDCl₃



Identification by ¹H NMR: Conforms to structure

Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR47118) = **0.108 %**

Approved By
Head - Technical

This is a computer-generated report -does not required sign