

CERTIFICATE OF ANALYSIS

Product Name	2-Methoxybenzyl chloride, Analytical standard		
Synonyms	2-Methoxybenzyl chloride		
CAS No	7035-02-1		
Product code	SYI0054	Batch No	LMEBF0436
Molecular Formula	C ₈ H ₉ ClO	Molecular Weight	156.61
Mfg. Date	Apr-26	Expiry Date	Mar-28
Storage Conditions	Store at 2-8 °C temperature, tightly closed container		

Test	Specification	Results
Description	Colorless to Light yellow clear liquid	Light yellow clear liquid
Boiling Point	215.2 °C	215.2 °C
Specific Gravity at 20°C	1.15 g/ml	1.15 g/ml
Purity by GC	≥98.00%	98.43%
IR Spectrum	Identification by structure	Confirmed
¹H NMR Spectra	Identification by structure	Confirmed
Mass Spectra	Identification by molecular weight	Confirmed

Reference to *USP 30-NF 25* General Chapter <11>, "Reference Standards," As a result, noncompendial (secondary) reference standards require characterization data. This product should not use for clinical application.

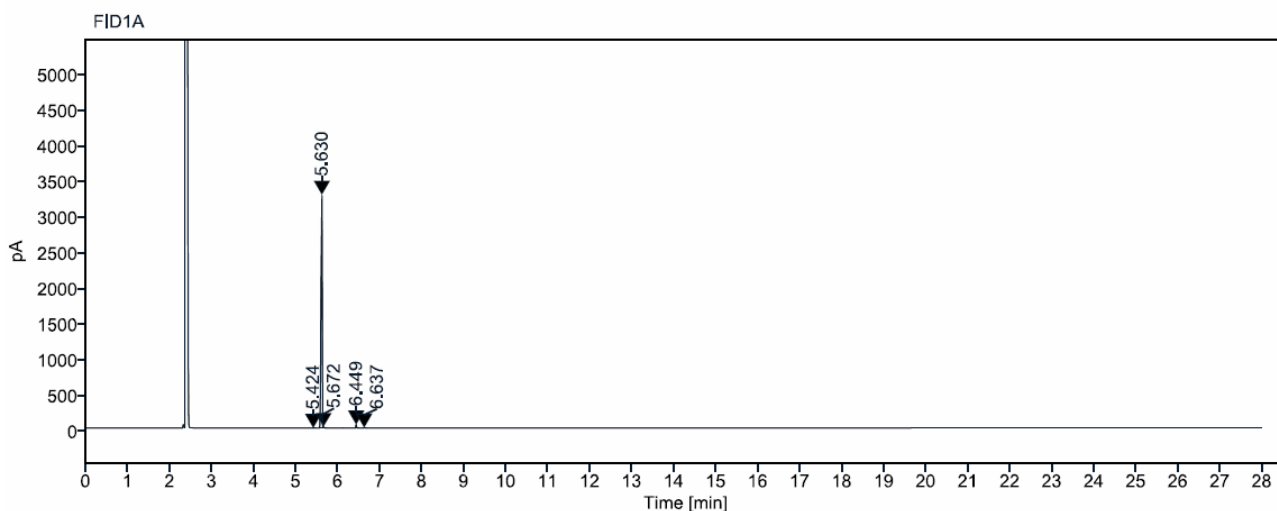
Approved by
Dr. Gopinath PH. D



Computer Generated document, Does not require any Signature.

ANALYTICAL GC REPORT

Data file: LMEBF0436.dx
Method Name: HP-5-GENERAL-METHOD.amx
Sample Name: LMEBF0436
Injection Acquired Date: 2026-04-24 18:41:26+05:30
Injection Processed Date: 2026-04-24 19:11:58+05:30
Inj. volume: 0.500 µL
Vial Number: 112
Data File Directory: /2026/APR-2026/Results/24042026/20260424 180847008.rslt
Injection Column Name: HP-5
Instrument ID: SA/AD/INS/037



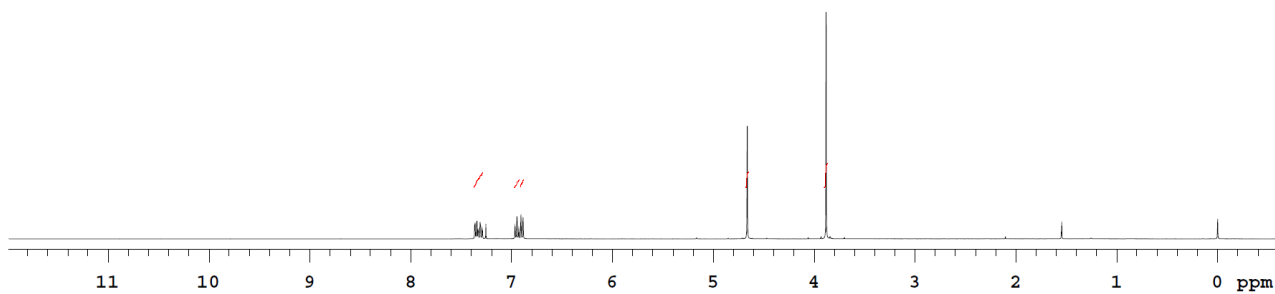
RT[MIN]	AREA	AREA %
5.424	2.179	0.04
5.630	5528.180	98.43
5.672	21.725	0.39
6.449	55.808	0.99
6.637	8.440	0.15



Identification by NMR: H1NMR

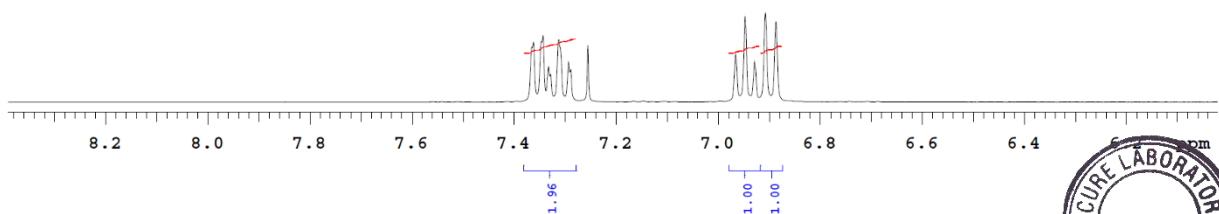
Sample Code: LMEBF0436

Solvent: cdcl3
VARIAN 400MHz NMR
Date: Apr 24 2026
Instrument ID: SA/AD/INS/001



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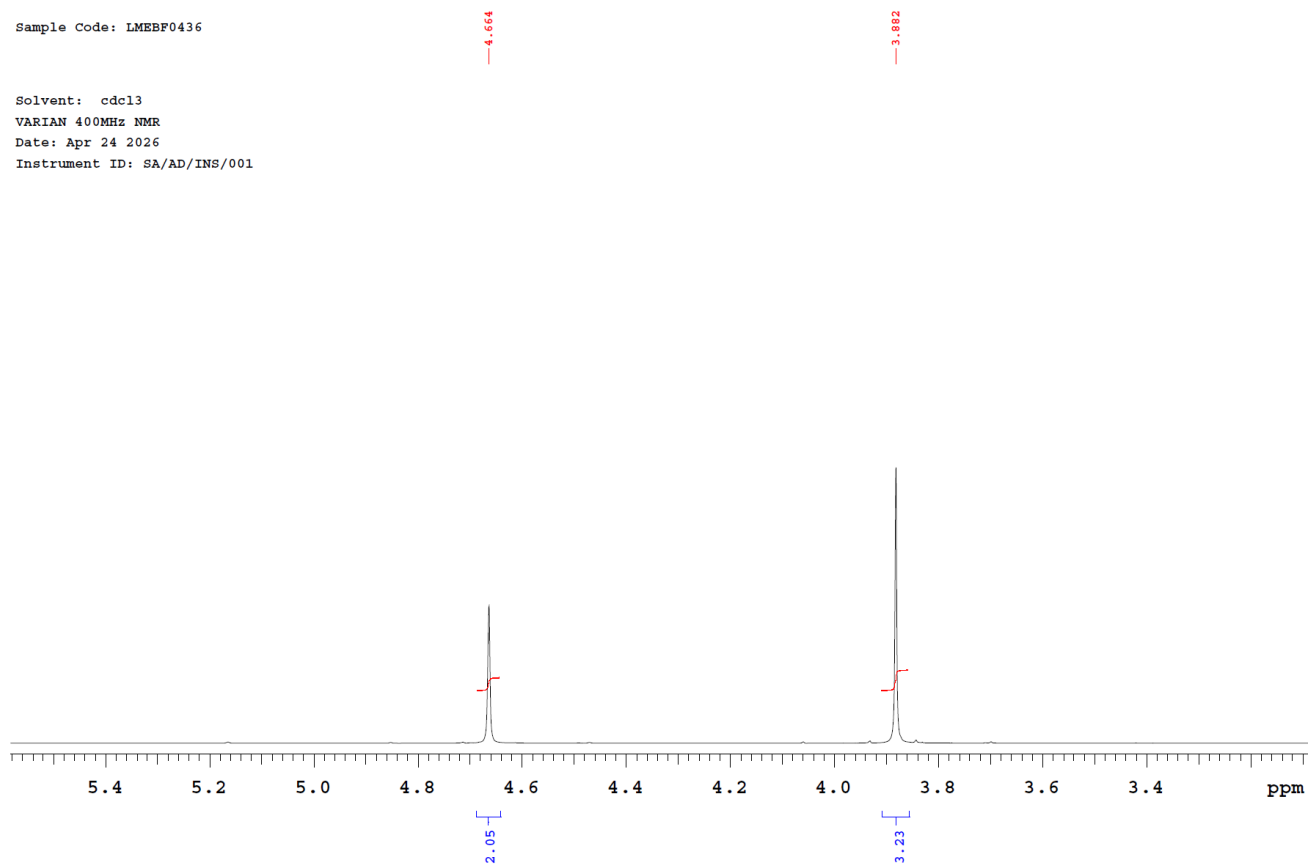


Plotname: LMEBF0436_PROTON_20260424_01_plot02



Identification by NMR: H1NMR

Sample Code: LMEBF0436

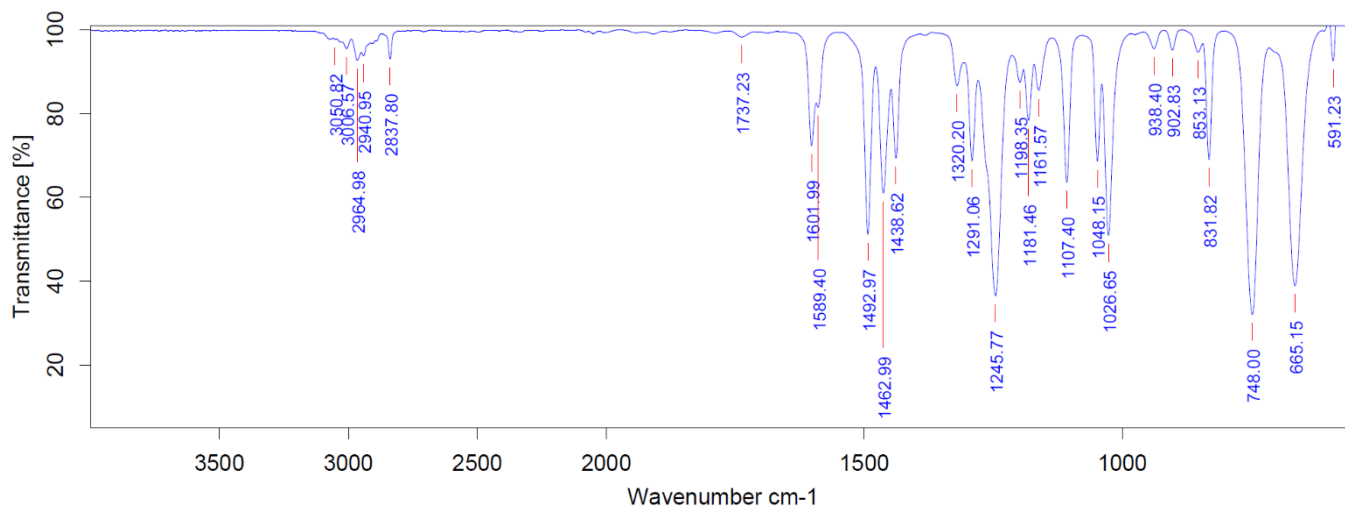
 Solvent: cdcl3
 VARIAN 400MHz NMR
 Date: Apr 24 2026
 Instrument ID: SA/AD/INS/001


expl PROTON

SAMPLE				PRESATURATION				INDEX	FREQUENCY	PPM	HEIGHT
date	Apr 24 2026	satmode	n	1	2943.7	7.365	3.4				
solvent	cdcl3	wet	n	2	2942.6	7.362	3.7				
file	/home/SPARK/d-	SPECIAL		3	2936.2	7.346	3.7				
ata/2026/Apr/LMEBF-	temp	not used		4	2935.1	7.344	4.1				
0436_20260424_01/L-	gain	48		5	2930.7	7.333	2.2				
MEBF0436_PROTON_20-	spin	20		6	2929.0	7.328	1.7				
260424_01.fid	hst	0.008		7	2922.6	7.312	3.8				
ACQUISITION	pw90	13.700		8	2915.0	7.293	2.4				
sw	7183.9	alfa	10.000	9	2913.2	7.289	2.0				
at	4.000	FLAGS		10	2899.8	7.255	3.5				
np	57472	il	n	11	2784.3	6.966	2.9				
fb	4000	in	n	12	2776.8	6.948	5.3				
bs	2	dp	Y	13	2769.4	6.929	2.5				
dl	1.000	hs	nn	14	2760.8	6.908	5.4				
nt	128	PROCESSING		15	2752.7	6.887	4.9				
ct	12	lb	0.50	16	1863.9	4.664	26.2				
TRANSMITTER	fn	not used		17	1551.5	3.882	52.7				
tn	H1	DISPLAY		18	619.6	1.550	1.7				
sfrq	399.688	sp	-795.2	19	617.8	1.546	3.5				
tof	799.3	wp	7183.7	20	-0.0	-0.000	4.6				
tpwr	59	rfl	795.4								
pw	6.850	rfp	0								
DECOUPLER	rp	133.2									
dn	C13	lp	0								
dof	0	PLOT									
dm	nnn	wc	250								
decwave	W40_GATB-0-	sc	0								
	12	vs	12								
dpwr	35	th	2								
dmf	29412	a1	cdc	ph							



Identification by Infrared Spectroscopy (IR)



Path/File Name:D:\2026\APRIL - 2026\LMEBF0436.0

Sample Name:LMEBF0436

Experiment:APRIL-2026.XPM

Lot No./Batch No:LMEBF0436

Resolution:2

Date & Time:4/24/2026,5:01:19 PM

Sample Scans:16

"D:\2026\APRIL - 2026\LMEBF0436.0" 1
 Peak Table TR
 Peak Picking

Peak Picking	Values
Method:	Standard
Searched for minima:	Yes
Number of peaks:	27
Sensitivity > [%]:	10.000000
From:	4000.000000
to:	400.000000
Absolute peak height >	0.000000
Relative peak height < [%]	0.000000
Absolute peak height <	0.000000

Wavenumber	Abs. intensity	Rel. intensity	Width	Found if threshold <	Shoulder
1601.9903	0.723	0.272	23.8292	26.412367	0
1492.9667	0.512	0.483	14.0001	46.939934	0
1462.9927	0.610	0.314	14.9032	29.435175	0
1438.6203	0.693	0.181	9.5394	16.111197	0
1291.0572	0.687	0.208	10.5839	18.792749	0
1245.7658	0.365	0.635	31.2601	61.796555	0
1181.4641	0.784	0.173	12.3898	15.099689	0
1107.4016	0.636	0.348	12.9869	33.576908	0
1048.1487	0.685	0.211	9.4580	18.060631	0
1026.6503	0.509	0.481	16.5330	46.486443	0
831.8178	0.690	0.309	11.3815	29.953272	0
748.0019	0.320	0.983	36.0372	66.223602	0
665.1461	0.389	0.698	32.4483	55.297710	0
591.2340	0.926	0.180	1.6860	10.342345	0
3006.5679	0.955	0.023	18.1889	39.563892	0
3050.8243	0.978	0.001	1628.2322	1.308998	0
2964.9816	0.927	0.072	53.4157	144.537292	0
2940.9455	0.938	0.013	42.5085	12.498878	0
2837.7958	0.930	0.060	12.6357	89.031921	0
1737.2302	0.983	0.015	21.9987	88.792969	0
1589.4043	0.815	0.024	22.2903	3.865230	0



Identification by Mass spectrometry (MS)

