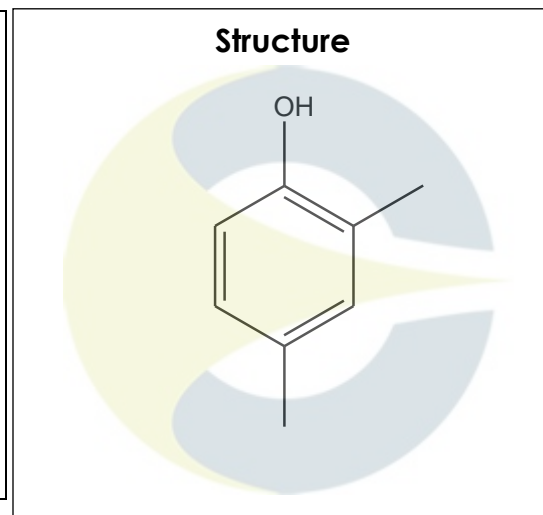


Certificate of Analysis
For Laboratory Use Only

PRODUCT NAME	2,4-Dimethylphenol
PART NUMBER	00004886
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00004886-46V
REPORT NUMBER	CDXA-RSS-6057-02
SAMPLE NUMBER	CDXA-14-1759
DATE OF SAMPLE	03/18/2014
DATE OF RE-EVALUATION	10/18/2018 (1 st); 08/18/2022 (2 nd)
DATE OF REPORT	09/26/2022



CHEMICAL NAMES	1-Hydroxy-2,4-dimethylbenzene; 2,4-Xylenol; m-Xylenol
CHEMICAL FORMULA	C ₈ H ₁₀ O
MOLECULAR WEIGHT (MW)	122.16
CHEMICAL FAMILY	Phenols
CAS NUMBER	[105-67-9]
EC#(EINECS)	203-321-6
RTECS	ZE5600000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	99.9%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	Liquid

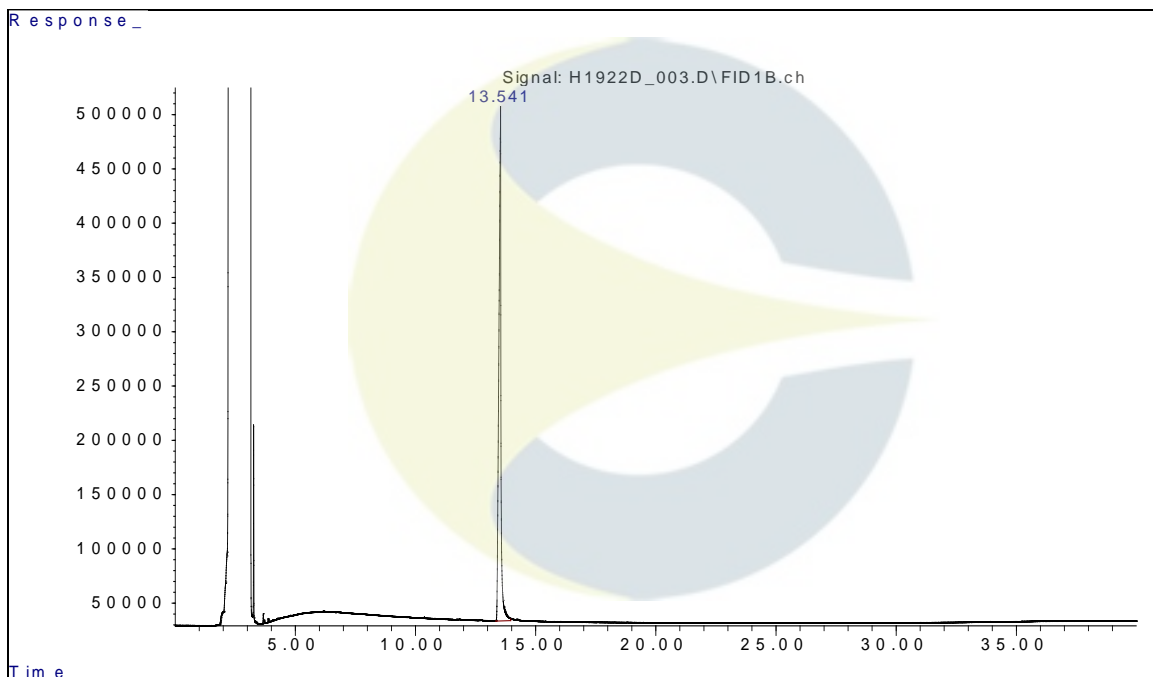
STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	08/2027 under the above conditions.

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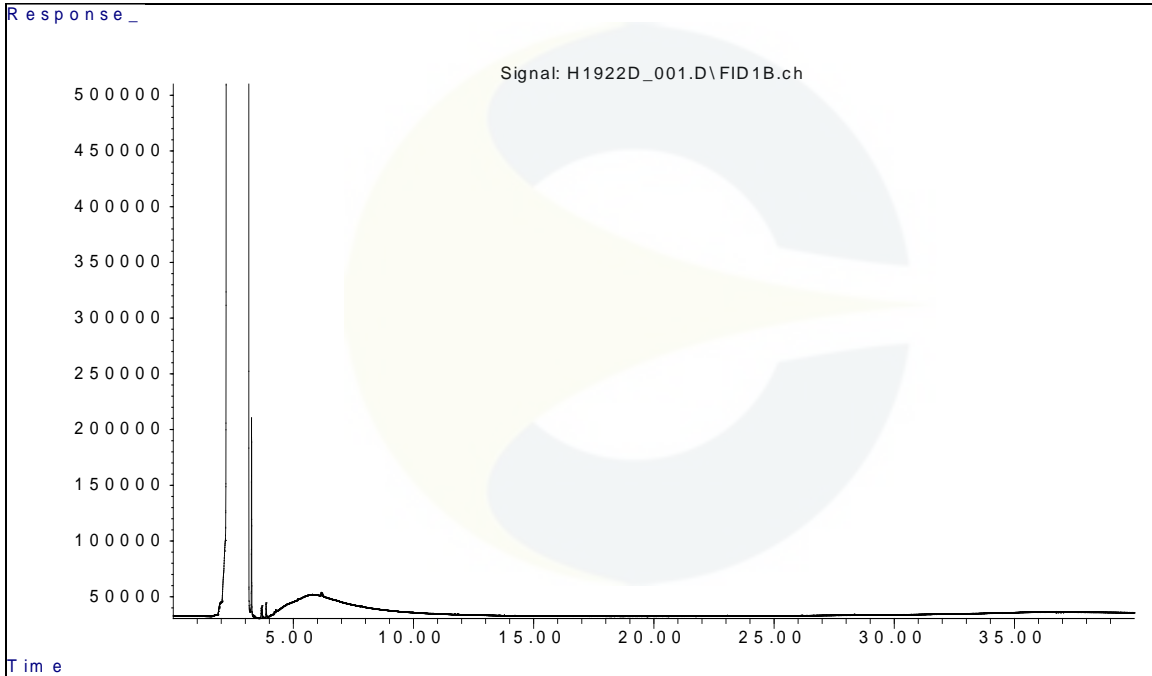
ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
COLUMN	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
CARRIER GAS	Helium
COLUMN TEMP.	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes.
FLOW RATE	2.0 mL/minute
INJECTOR TEMP.	300 °C
INJECTOR SPLIT RATIO	20:1
INJECTION VOL.	1.0 µL
INJECTION CONC.	1.46 mg/mL in 1:1 hexane: chloroform
DETECTION	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

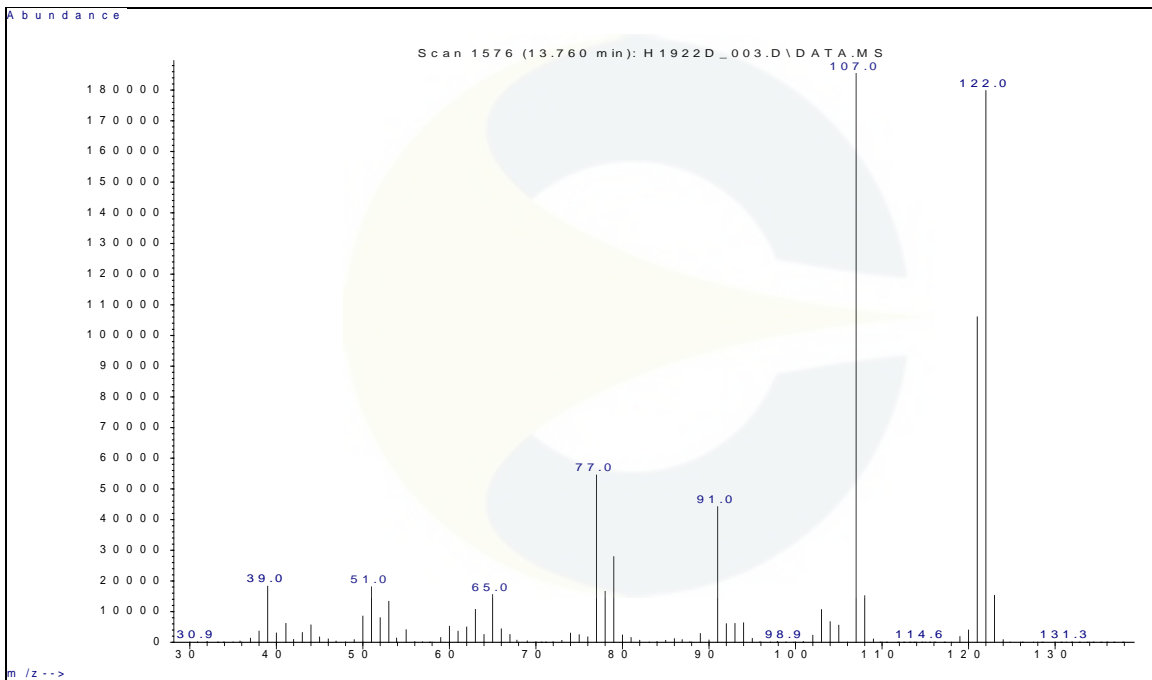
GC CHROMATOGRAM OF 2,4-DIMETHYLPHENOL (CDXA-14-1759)


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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF 2,4-DIMETHYLPHENOL (CDXA-14-1759P-22-00755)



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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/27/2014	New report
01	11/14/2018	Passed re-evaluation by GC/MS. Updated expiration date, analytical method, conditions, chromatograms, and results. Added RTECS # and removed melting point.
02	09/26/2022	Passed second re-evaluation by GC/MS. Updated expiration date, analytical method, conditions, chromatograms, and results.

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