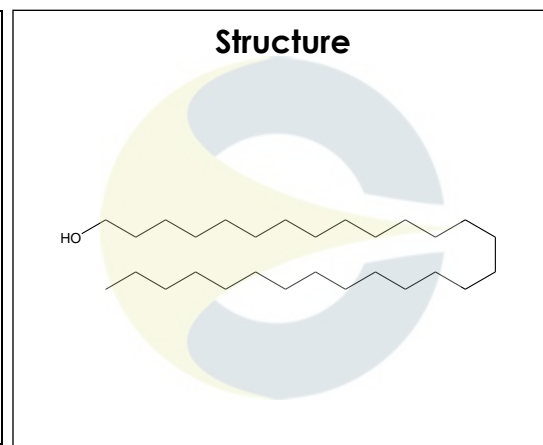


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PRODUCT NAME	1-Octacosanol
PART NUMBER	00015035
STANDARD TYPE	Primary (P)
LOT NUMBER	00015035-020
REPORT NUMBER	CDXA-RSS-9265-00
SAMPLE NUMBER	CDXP-21-00038
DATE OF SAMPLE	01/29/2021
DATE OF REPORT	02/22/2021



CHEMICAL NAMES	Cluetyl alcohol; Montanyl alcohol; Octacosanol; Octacosyl alcohol
CHEMICAL FORMULA	C ₂₈ H ₅₈ O
MOLECULAR WEIGHT (MW)	410.76
CHEMICAL FAMILY	Fatty alcohols
CAS NUMBER	[557-61-9]
EC#(EINECS)	209-181-2
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	95.8%
GC	0.700.10.2.METH140	≥ 90%	95.8%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 95.8% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 95.8% HPLC

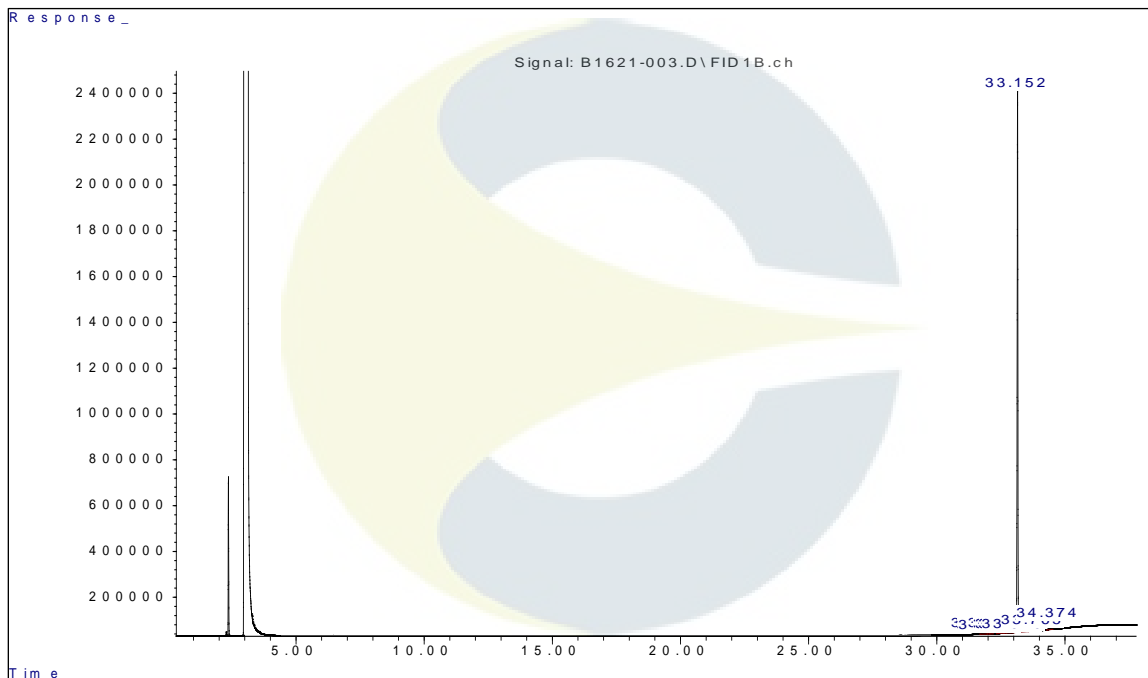
STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	01/2026 under the above conditions.

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ANALYTICAL CONDITIONS

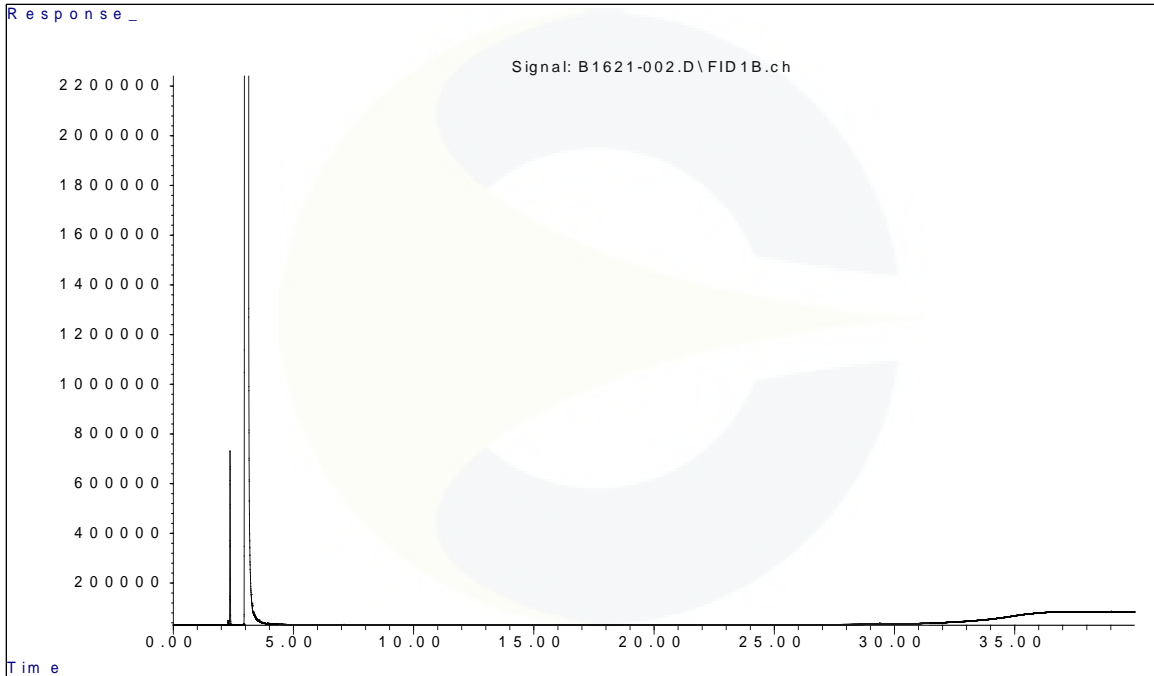
INSTRUMENT	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
COLUMN	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
CARRIER GAS	Helium
COLUMN TEMP.	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes.
FLOW RATE	2.0 mL/minute
INJECTOR TEMP.	300 °C
INJECTOR SPLIT RATIO	20:1
INJECTION VOL.	1.0 µL
INJECTION CONC.	1.7 mg/mL in Chloroform
DETECTION	FID (350 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

GC CHROMATOGRAM OF 1-OCTACOSANOL (CDXP-21-00038)


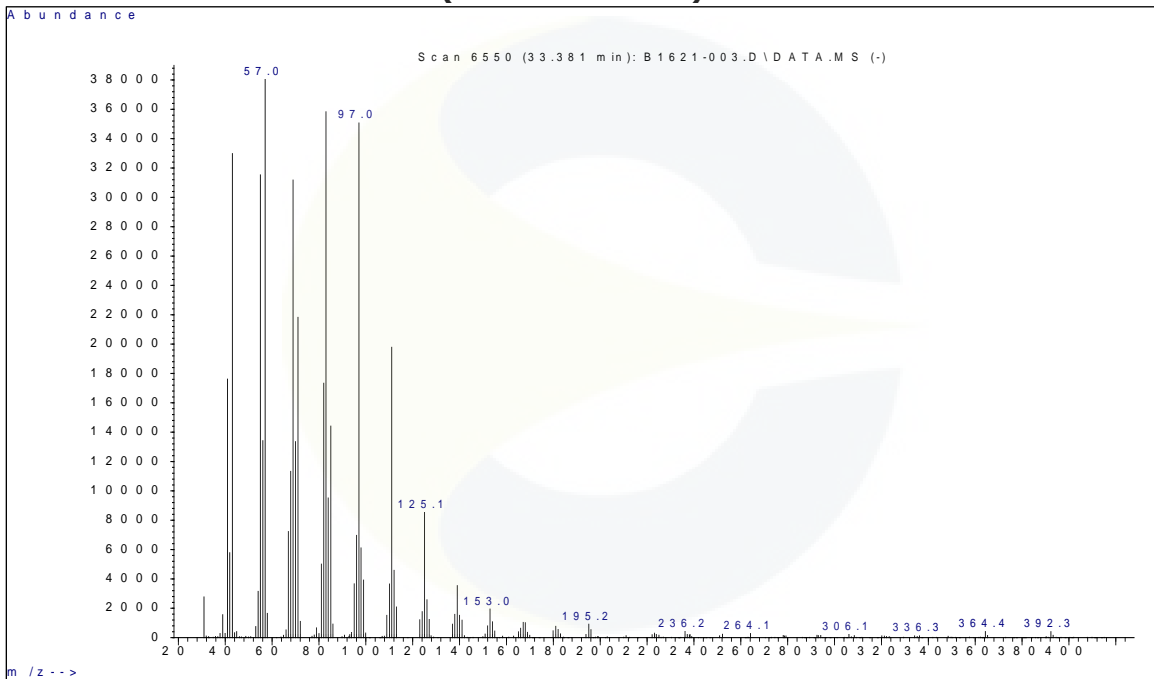
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GC CHROMATOGRAM OF DILUENT BLANK

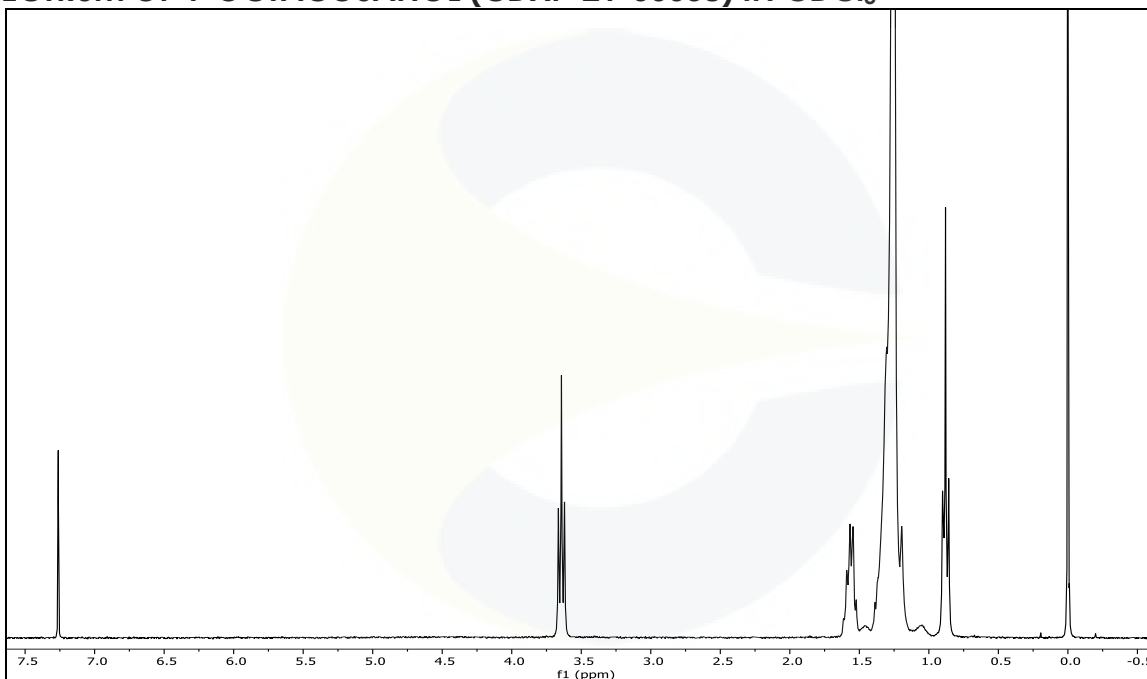


MASS SPECTRUM OF 1-OCTACOSANOL (CDXP-21-00038)

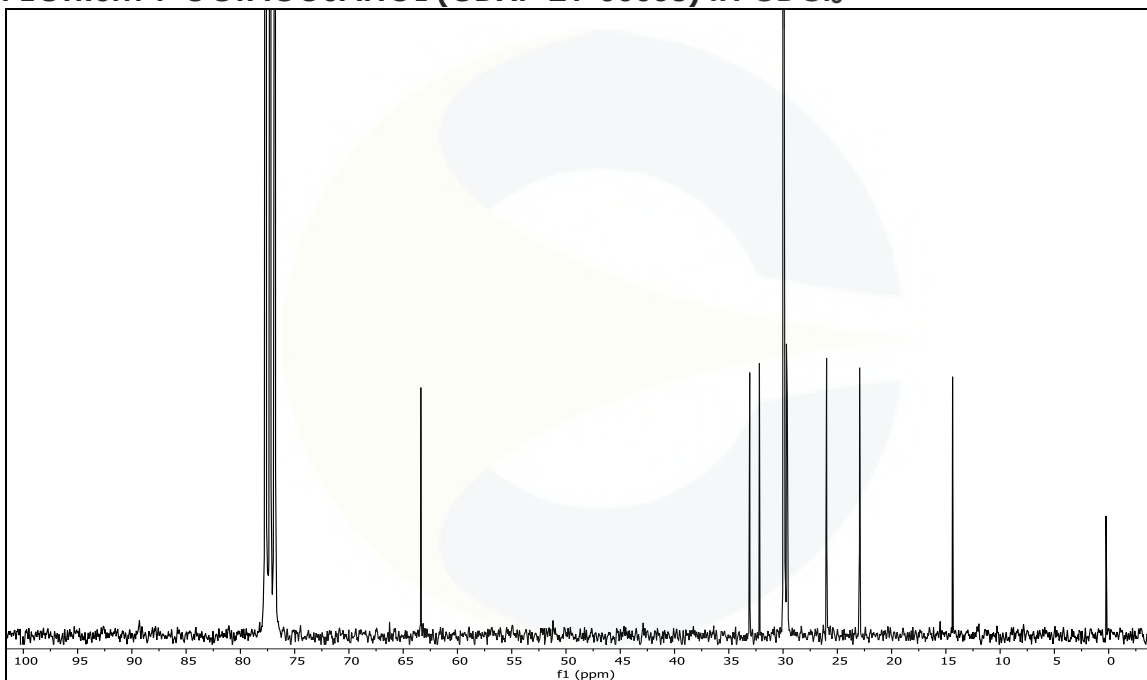


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¹H-NMR SPECTRUM OF 1-OCTACOSANOL (CDXP-21-00038) IN CDCl₃



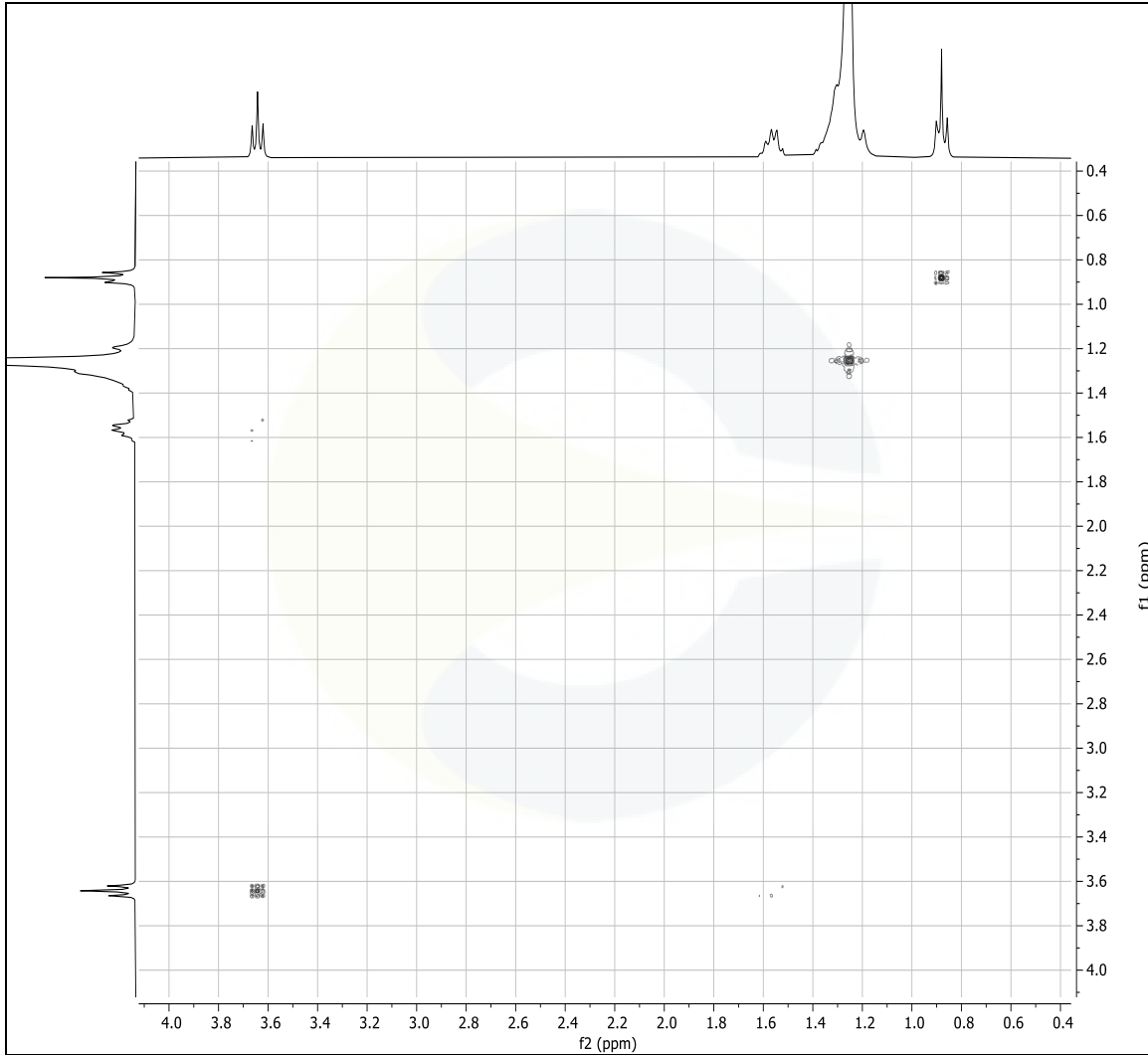
¹³C-NMR SPECTRUM 1-OCTACOSANOL (CDXP-21-00038) IN CDCl₃



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COSY-NMR SPECTRUM OF 1-OCTACOSANOL (CDXP-21-00038) IN CDCl₃



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/22/2021	New report

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