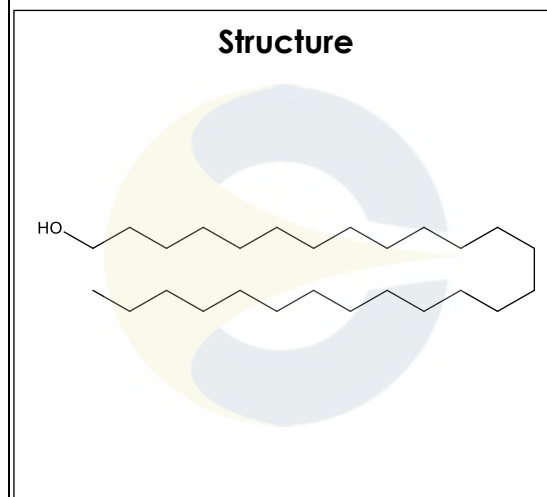


Certificate of Analysis
For Laboratory Use Only

PRODUCT NAME	1-Hexacosanol
PART NUMBER	00008185
STANDARD TYPE	Primary (P)
LOT NUMBER	00008185-K01
REPORT NUMBER	CDXA-RSS-2338-02
SAMPLE NUMBER	CDXA-08-0162
DATE OF SAMPLE	01/29/2008
DATE OF RE-EVALUATION	09/18/2012 (1 st); 09/19/2016 (2 nd); 10/12/2020 (3 rd)
DATE OF REPORT	12/10/2020



CHEMICAL NAMES	Ceryl alcohol; Hexacosyl alcohol; n-Hexacosanol
CHEMICAL FORMULA	C ₂₆ H ₅₄ O
MOLECULAR WEIGHT (MW)	382.71
CHEMICAL FAMILY	Fatty alcohols
CAS NUMBER	[506-52-5]
EC#(EINECS)	208-044-4
RTECS	ML6300000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	96.1%
GC	0.700.10.2.METH140	≥ 90%	96.1%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	See Below	Conforms	Conforms
Residual Solvent	CDXA-AM-001-05	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 96.1% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 96.1% GC

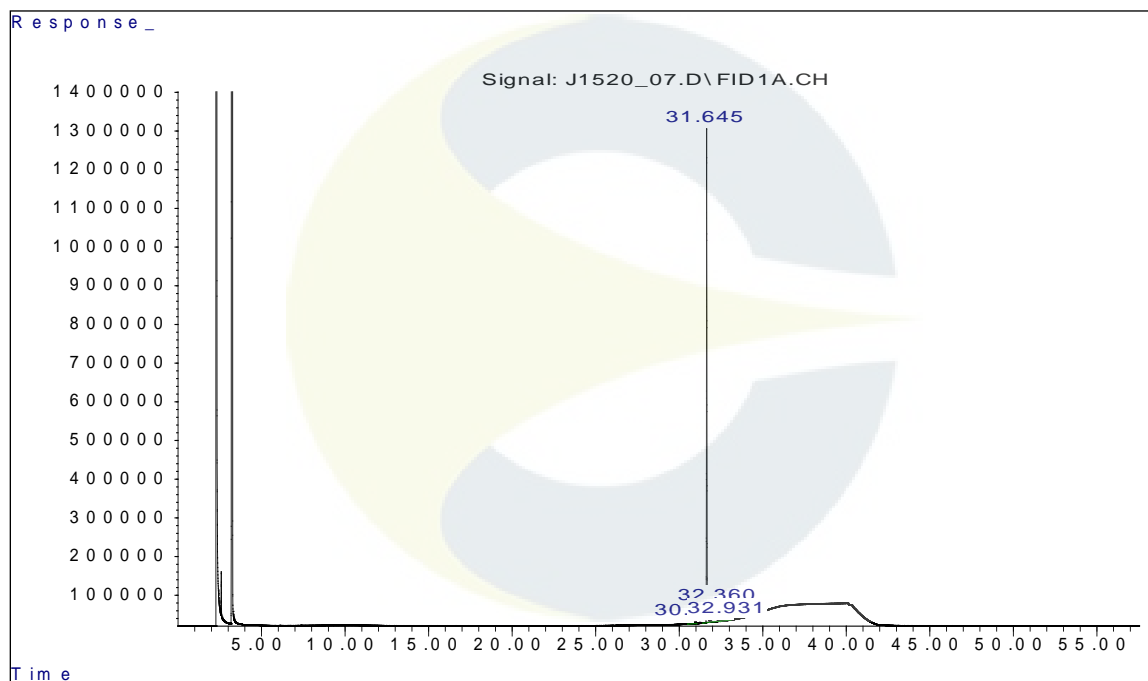
STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	10/2025 under the above conditions.

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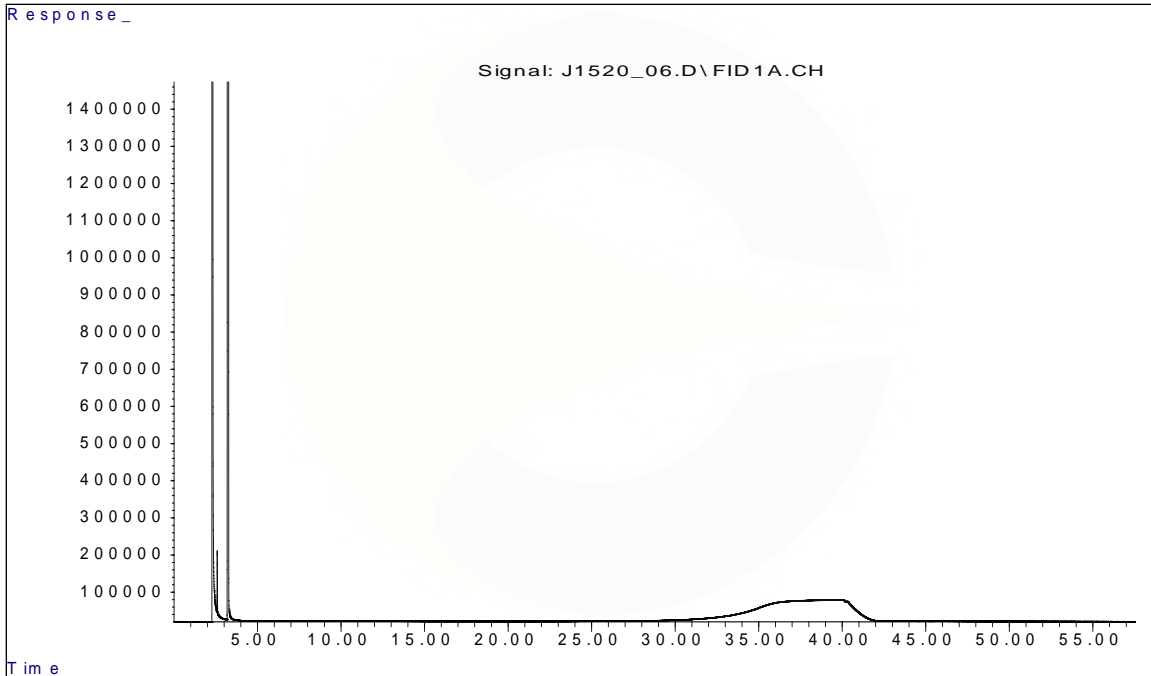
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 6890N WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5973N MASS SELECTIVE DETECTOR (MSD)
COLUMN	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm; connected to an MXT Y-union, connected to a Restek Siltek deactivated guard column: 10 m x 0.25 mm to FID; and a 5 m x 100 µm transfer line to MSD.
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.	1.1 mg/mL in Methanol: Chloroform (1:1)
DETECTION	FID (350 °C) & MSD (Transfer line 300 °C, Source 250 °C, Quad 200 °C)

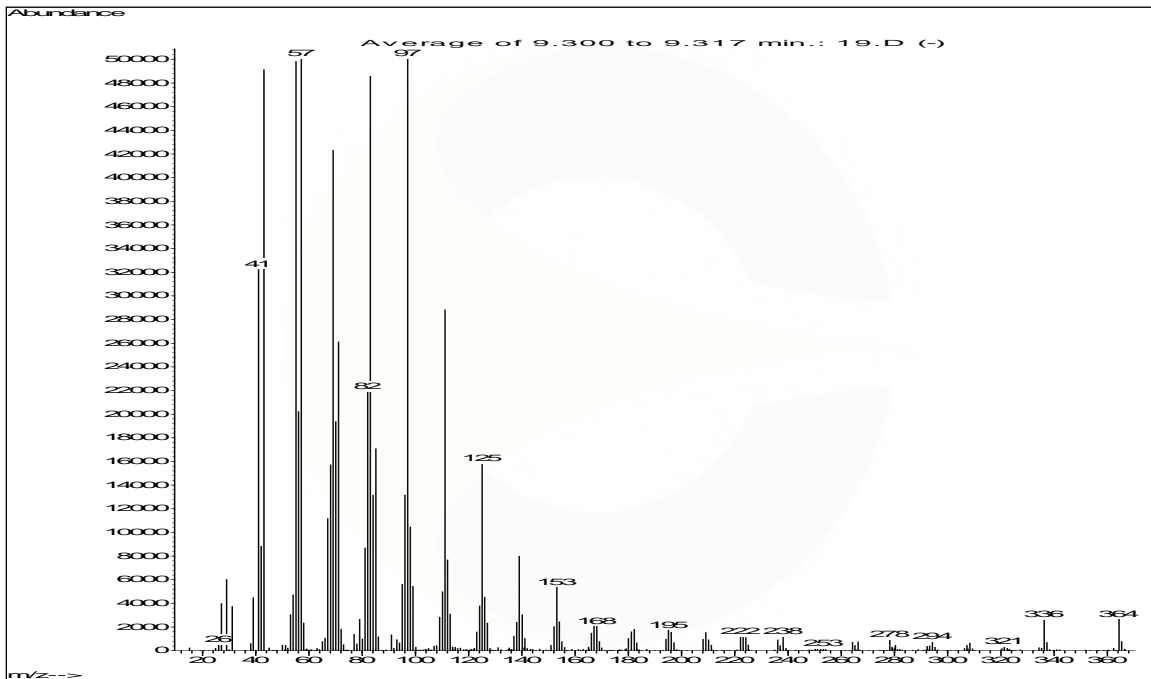
GC CHROMATOGRAM OF 1-HEXACOSANOL (CDXA-08-0162)


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GC CHROMATOGRAM OF DILUENT BLANK

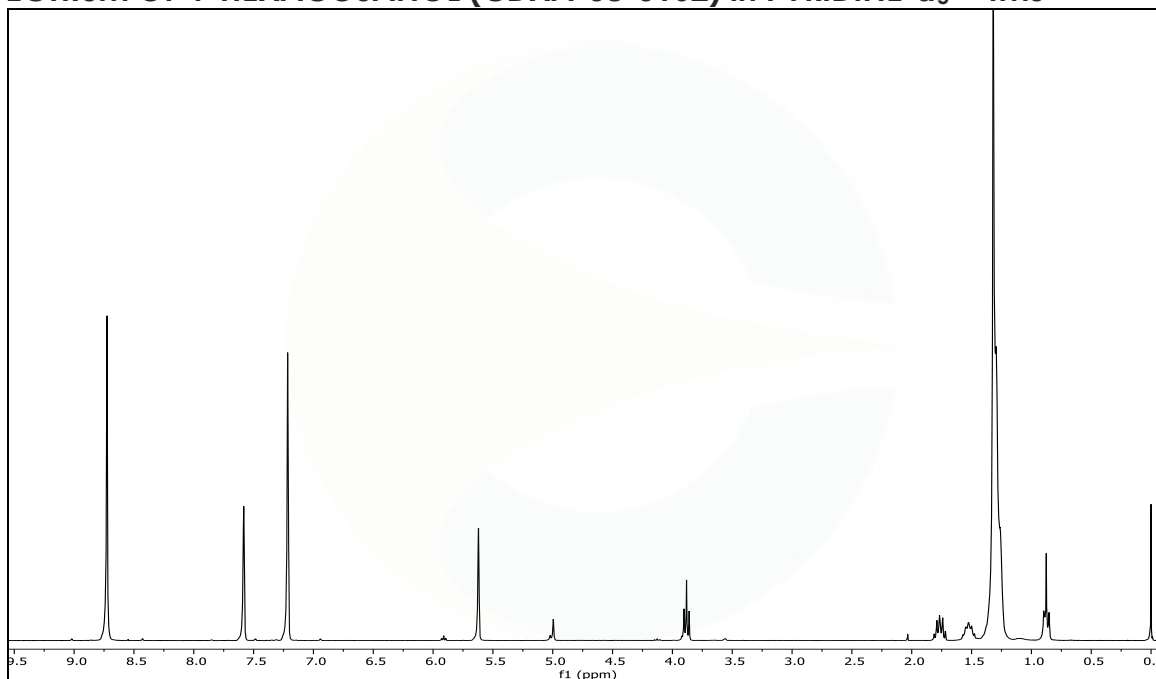


MASS SPECTRUM OF 1-HEXACOSANOL (CDXA-08-0162)

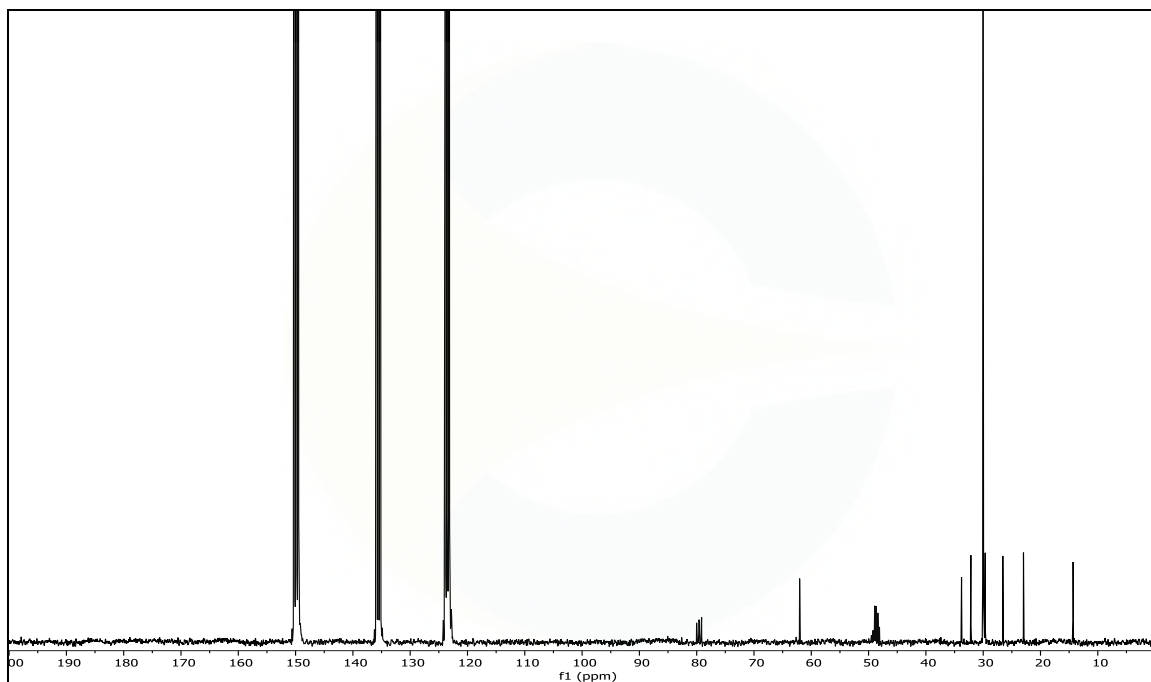


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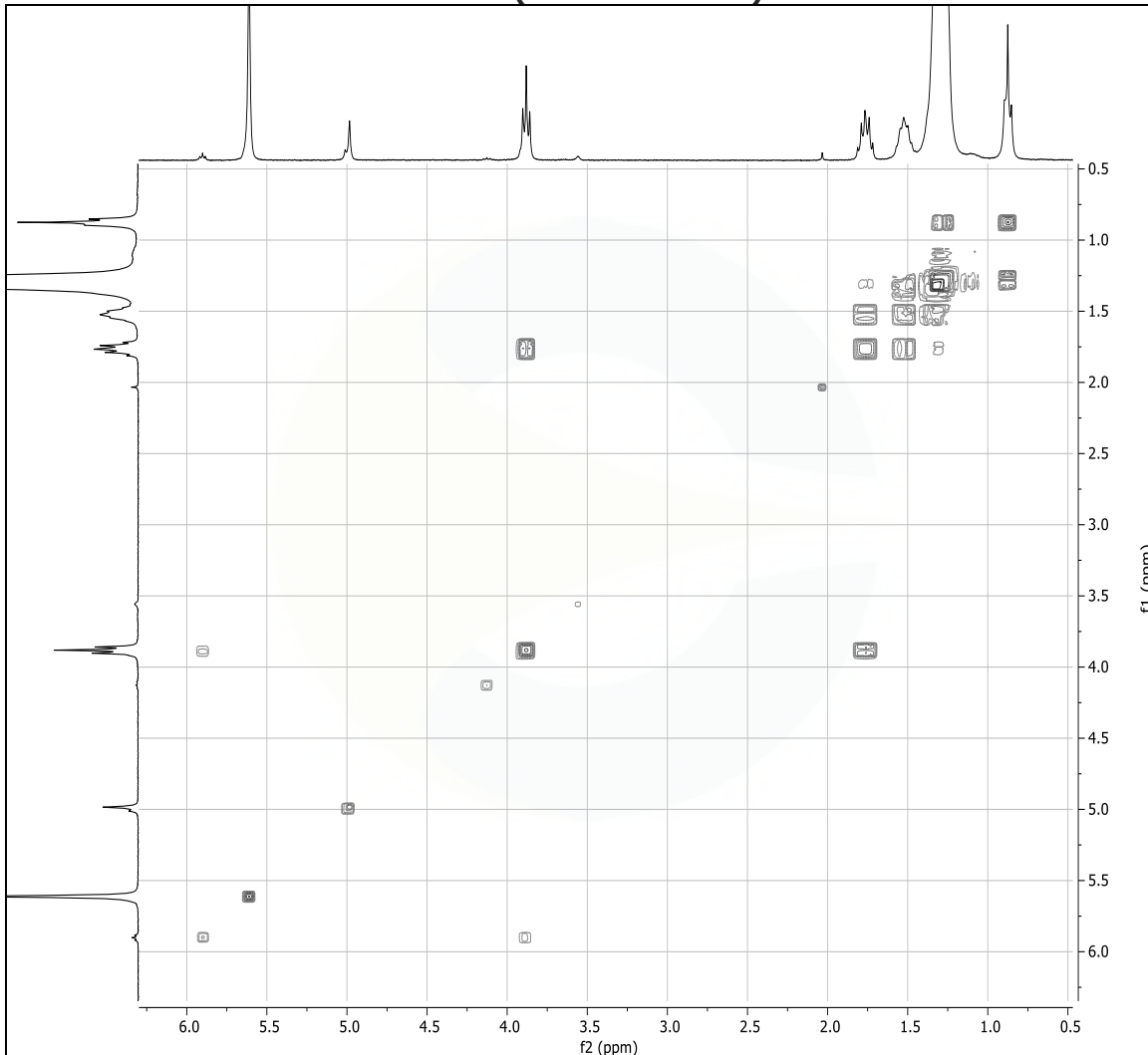
¹H-NMR SPECTRUM OF 1-HEXACOSANOL (CDXA-08-0162) in PYRIDINE-d₅ + TMS



¹³C-NMR SPECTRUM OF 1-HEXACOSANOL (CDXA-08-0162) IN PYRIDINE-D₅ + TMS



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COSY-NMR SPECTRUM OF 1-HEXACOSANOL (CDXA-08-0162) IN PYRIDINE-D5 + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/19/2012	New report and first re-evaluation.
01	10/18/2016	Pass second re-evaluation by GC/FID. Updated expiration date, melting point, GC method, conditions and chrom.
02	12/10/2020	Removed melting point. Updated expiration date, analytical results for GC, KF and NMR, analytical conditions, and chromatograms. Added NMR COSY spectra and RTECS number

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