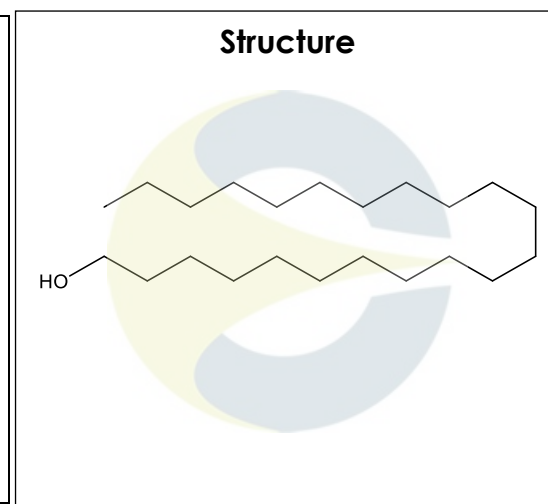


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<b>PRODUCT NAME</b>	n-Docosanol
<b>PART NUMBER</b>	00004981
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00004981-544
<b>REPORT NUMBER</b>	CDXA-RSS-2871-02
<b>SAMPLE NUMBER</b>	CDXA-08-0544
<b>DATE OF SAMPLE</b>	03/19/2008
<b>DATE OF RE-EVALUATION</b>	01/04/2016 (1 <sup>st</sup> ); 03/05/2021 (2 <sup>nd</sup> )
<b>DATE OF REPORT</b>	03/31/2021



<b>CHEMICAL NAMES</b>	1-Docosanol; Behenic alcohol; Behenyl alcohol; Docosyl alcohol; Tadenan
<b>CHEMICAL FORMULA</b>	C <sub>22</sub> H <sub>46</sub> O
<b>MOLECULAR WEIGHT (MW)</b>	326.60
<b>CHEMICAL FAMILY</b>	Fatty acids
<b>CAS NUMBER</b>	[661-19-8]
<b>EC#(EINECS)</b>	211-546-6
<b>RTECS</b>	JR1315000

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	84.3%
GC	0.700.10.2.METH140	NA	84.3%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Residual Solvent	99.1-CD-1.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Off white powder

ADJUSTED PURITY: 84.3% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 84.3% GC

**STORAGE CONDITIONS**

<b>STORAGE</b>	Room Temperature in a dry place.
<b>EXPIRATION DATE</b>	03/2026 under the above conditions.

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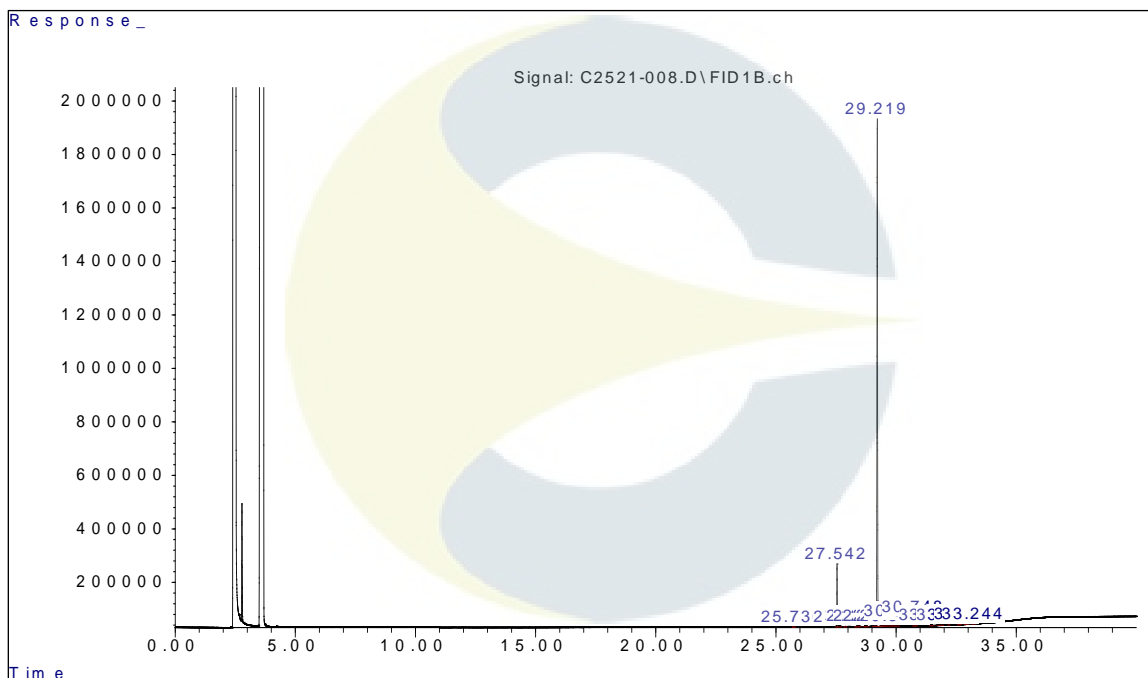
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## ANALYTICAL CONDITIONS

<b>INSTRUMENT</b>	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
<b>COLUMN</b>	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
<b>CARRIER GAS</b>	Helium
<b>COLUMN TEMP.</b>	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.
<b>FLOW RATE</b>	2.0 mL/minute
<b>INJECTOR TEMP.</b>	300 °C
<b>INJECTOR SPLIT RATIO</b>	20:1
<b>INJECTION VOL.</b>	1.0 µL
<b>INJECTION CONC.</b>	1.1 mg/mL in Methanol: Chloroform (1:1)
<b>DETECTION</b>	FID (350 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

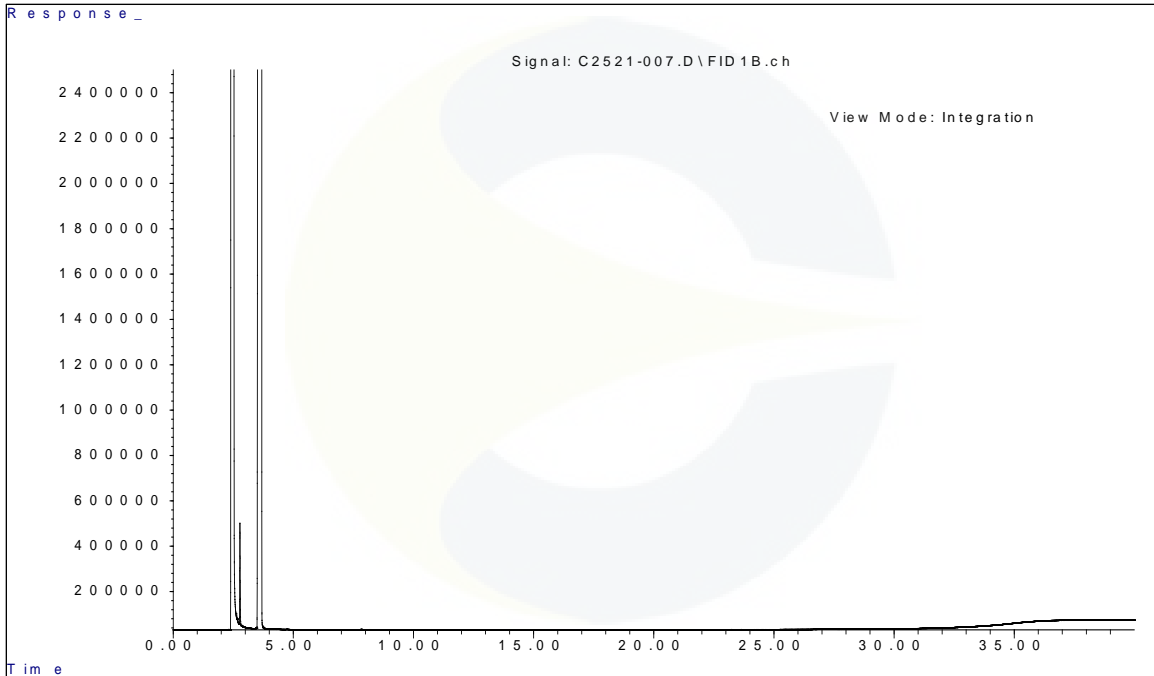
## GC CHROMATOGRAM OF N-DOCOSANOL (CDXA-08-0544)



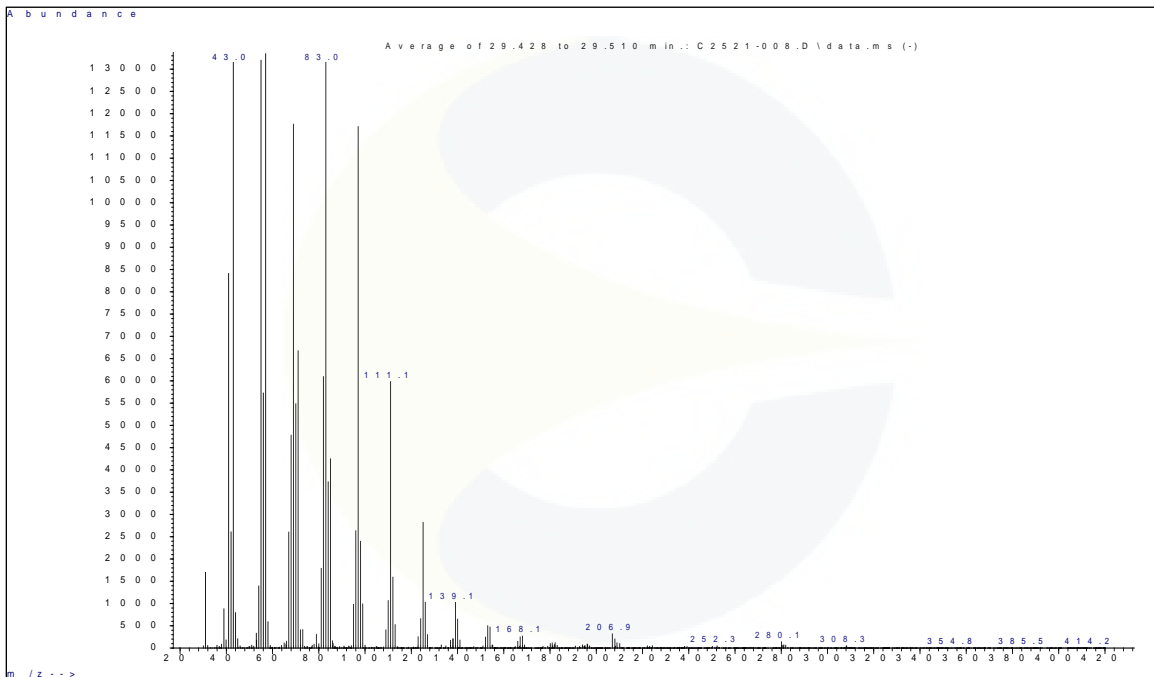
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**GC CHROMATOGRAM OF DILUENT BLANK**



**MASS SPECTRUM OF N-DOCOSANOL (CDXA-08-0544)**

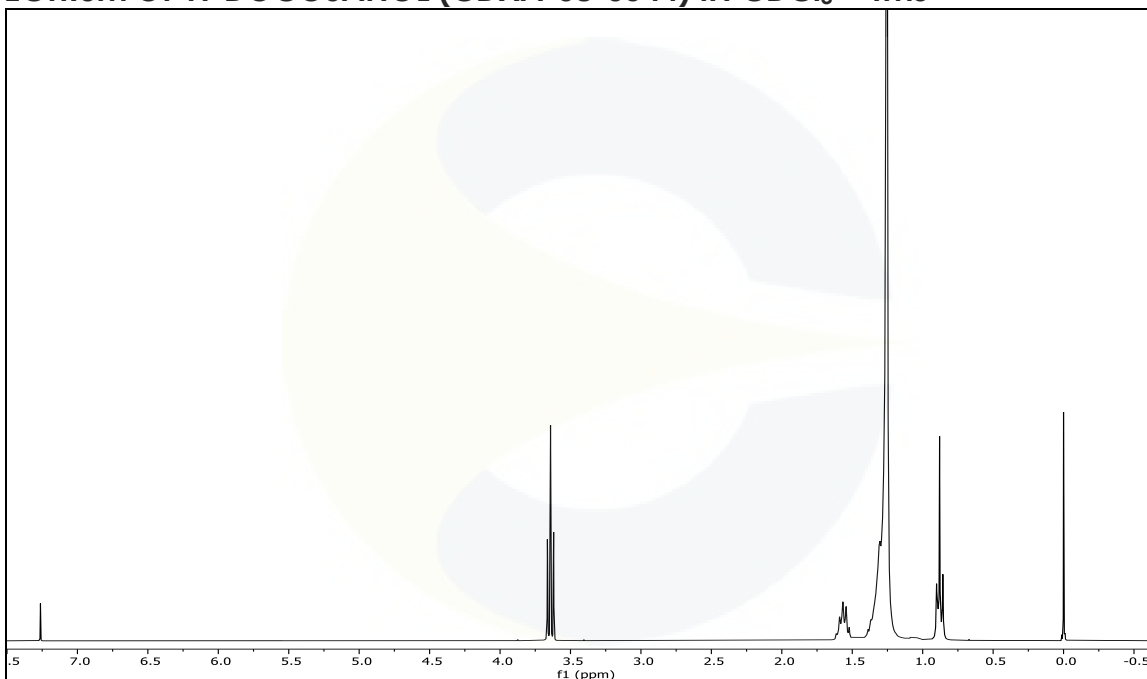


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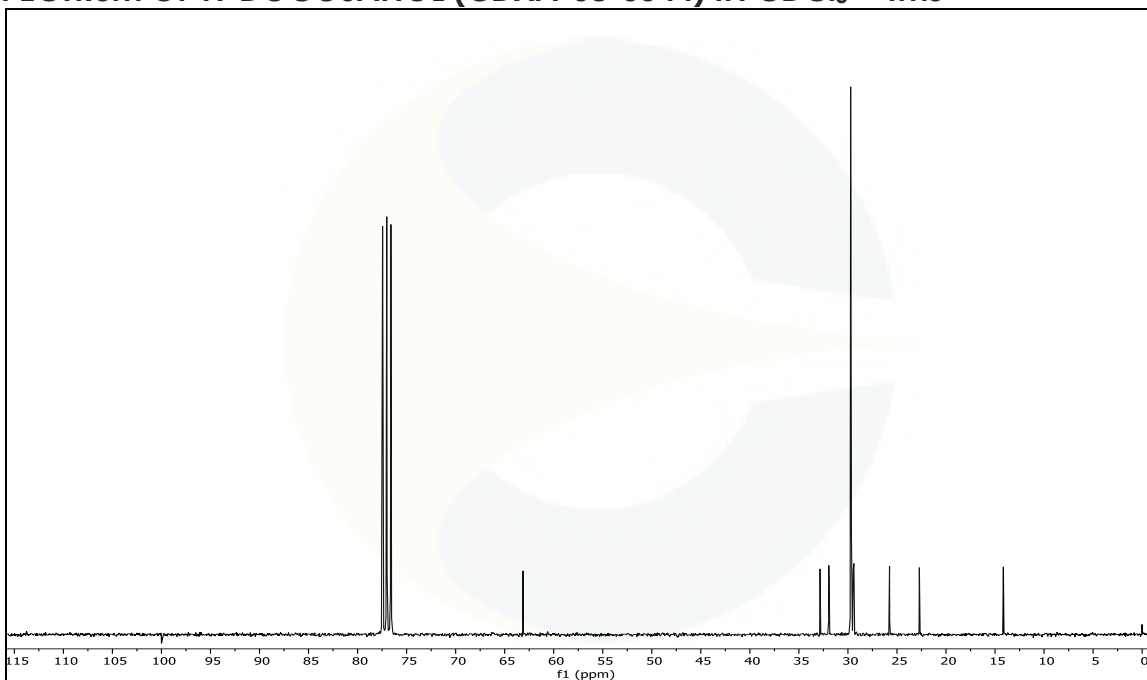
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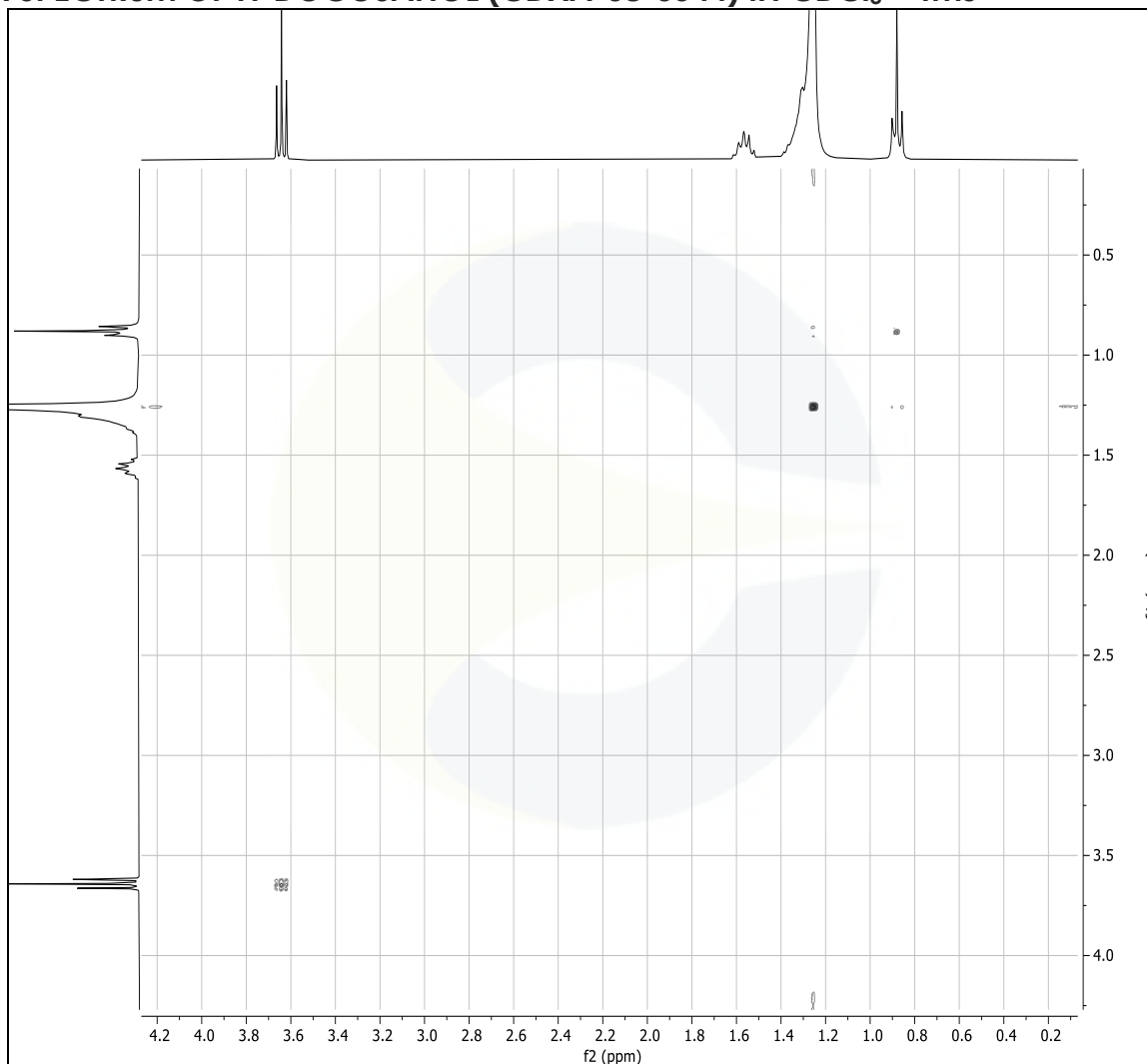
**<sup>1</sup>H-NMR SPECTRUM OF N-DOCOSANOL (CDXA-08-0544) IN CDCl<sub>3</sub> + TMS**



**<sup>13</sup>C-NMR SPECTRUM OF N-DOCOSANOL (CDXA-08-0544) IN CDCl<sub>3</sub> + TMS**



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**COSY-NMR SPECTRUM OF N-DOCOSANOL (CDXA-08-0544) IN CDCl<sub>3</sub> + TMS**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	06/24/2008	New report
01	01/22/2016	Passed re-evaluation by GC/FID, KF. Updated expiration date, chemical names, and melting point.
02	03/31/2021	Passed second re-evaluation by GC-FID, KF, and NMR. Updated expiration date, analytical results, analytical conditions, chromatograms, and spectra. Removed melting point.

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