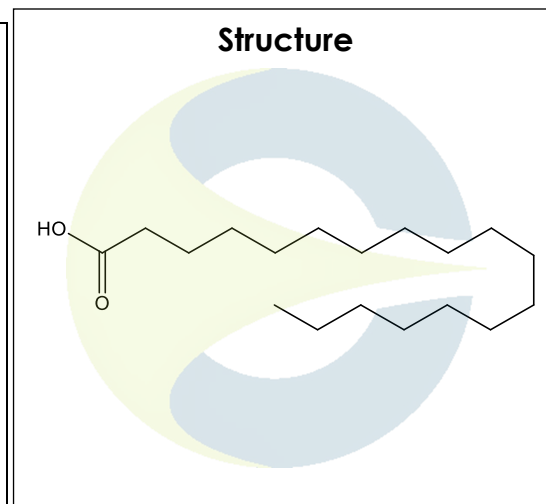


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<b>PRODUCT NAME</b>	Stearic Acid
<b>PART NUMBER</b>	00019350
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00019350-911
<b>REPORT NUMBER</b>	CDXA-RSS-5558-02
<b>SAMPLE NUMBER</b>	CDXA-13-3187
<b>DATE OF SAMPLE</b>	05/09/2013
<b>DATE OF RE-EVALUATION</b>	05/30/2018 (1 <sup>st</sup> ); 04/11/2022(2 <sup>nd</sup> )
<b>DATE OF REPORT</b>	05/04/2022



<b>CHEMICAL NAMES</b>	n-Octadecanoic acid; 1-Heptadecanecarboxylic acid; Stearophanic acid; Vanicol
<b>CHEMICAL FORMULA</b>	C <sub>18</sub> H <sub>36</sub> O <sub>2</sub>
<b>MOLECULAR WEIGHT (MW)</b>	284.48
<b>CHEMICAL FAMILY</b>	Fatty acids
<b>CAS NUMBER</b>	[57-11-4]
<b>EC#(EINECS)</b>	200-313-4
<b>RTECS</b>	WI2800000

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.2%
GC	0.700.10.2.METH140	≥ 90%	99.2%
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Residual Solvent	99.1-CD-6.0-0000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 99.2% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.2% GC

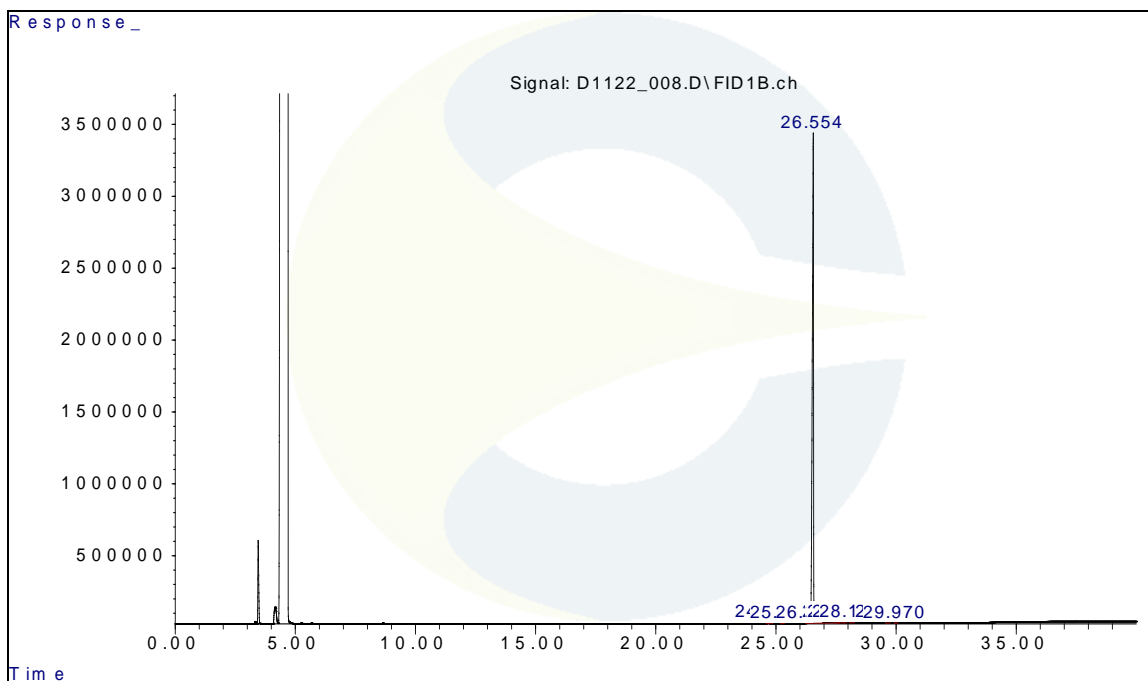
**STORAGE CONDITIONS**

<b>STORAGE</b>	Room Temperature in a dry place.
<b>EXPIRATION DATE</b>	04/2027 under the above conditions.

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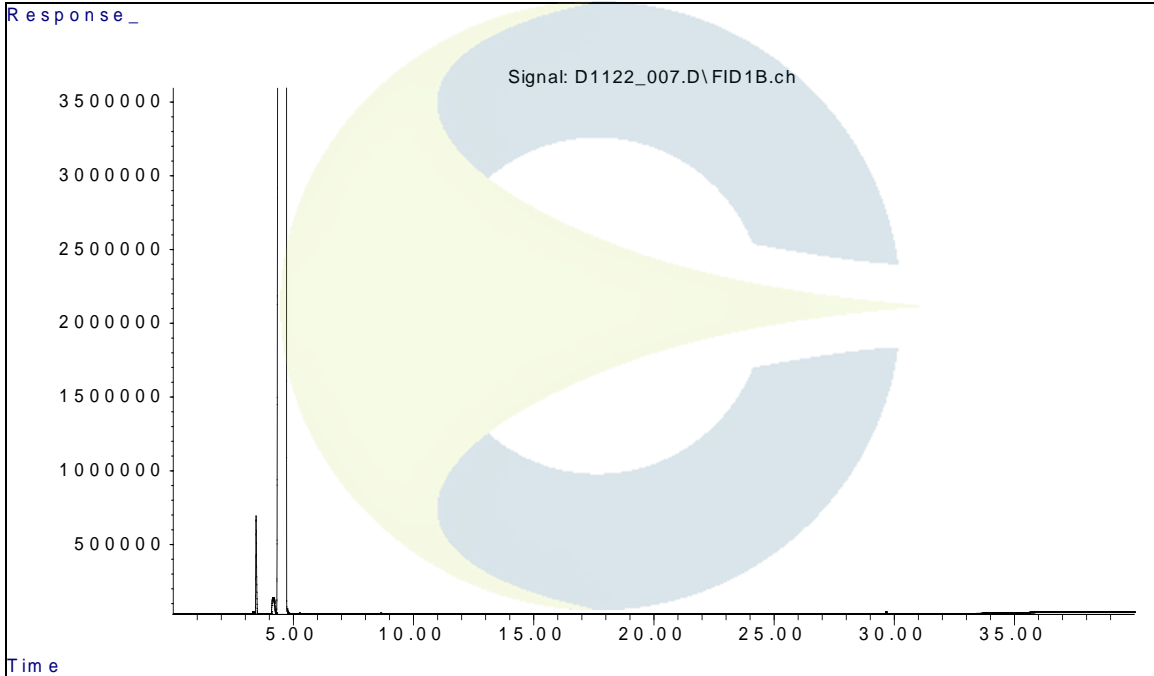
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**ANALYTICAL CONDITIONS**

<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>	3.6 mg/mL in Chloroform
<b>DETECTION</b>	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

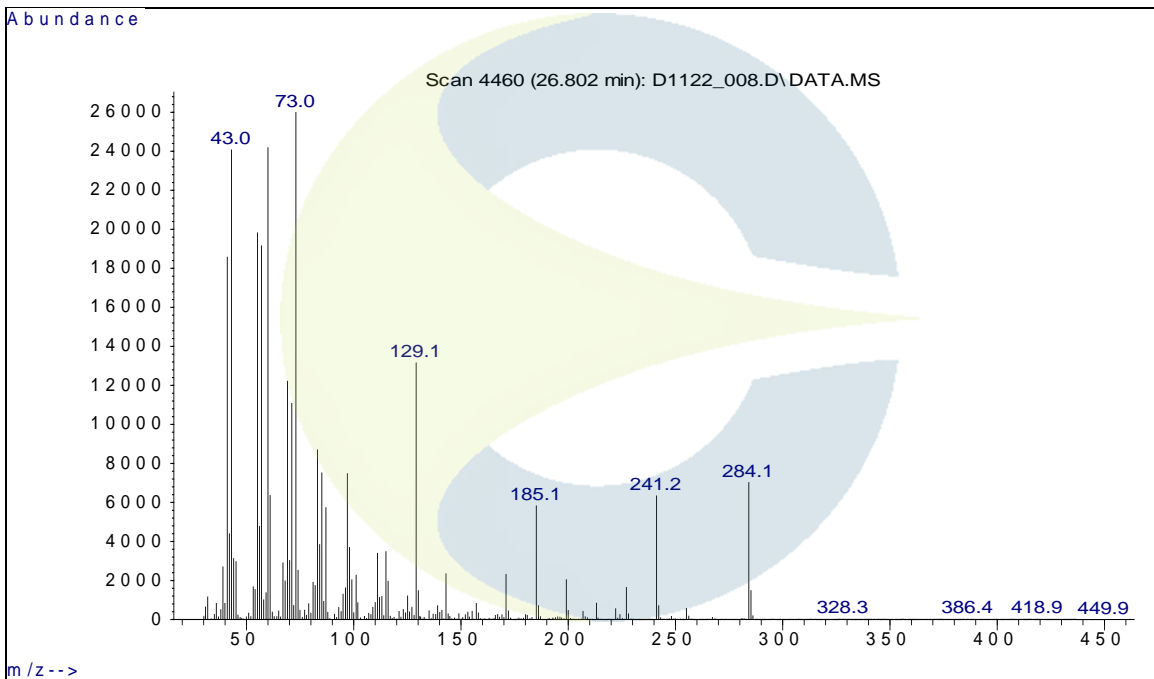
**GC CHROMATOGRAM OF STEARIC ACID (CDXA-13-3187)**


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### GC CHROMATOGRAM OF DILUENT BLANK



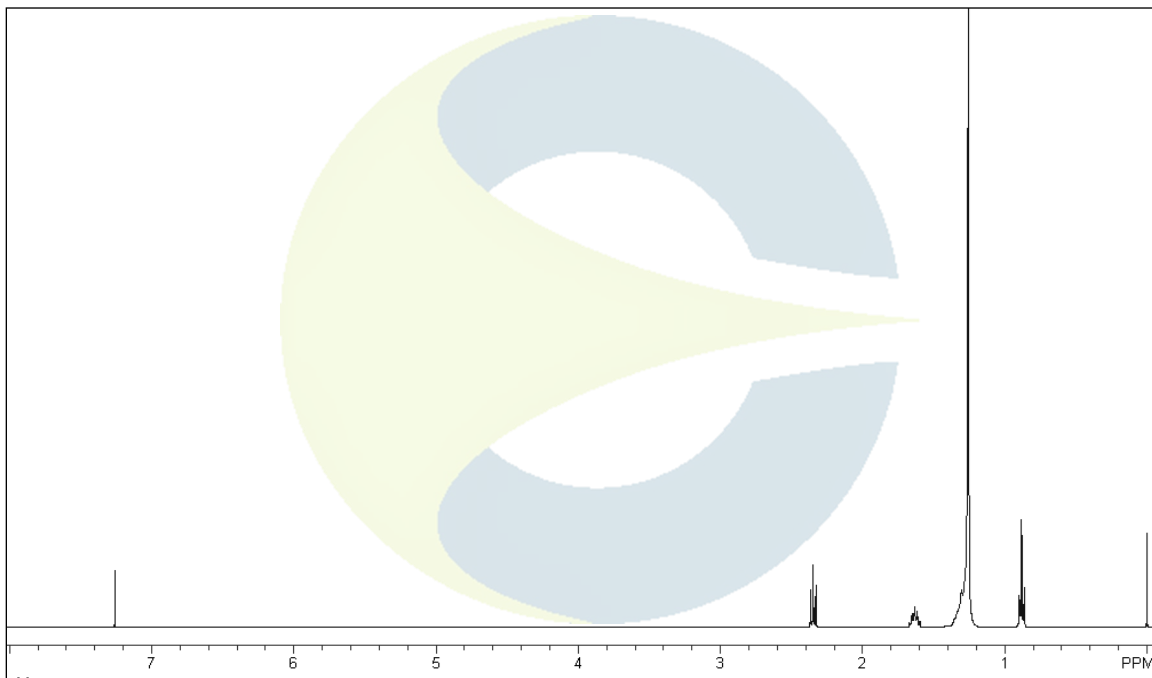
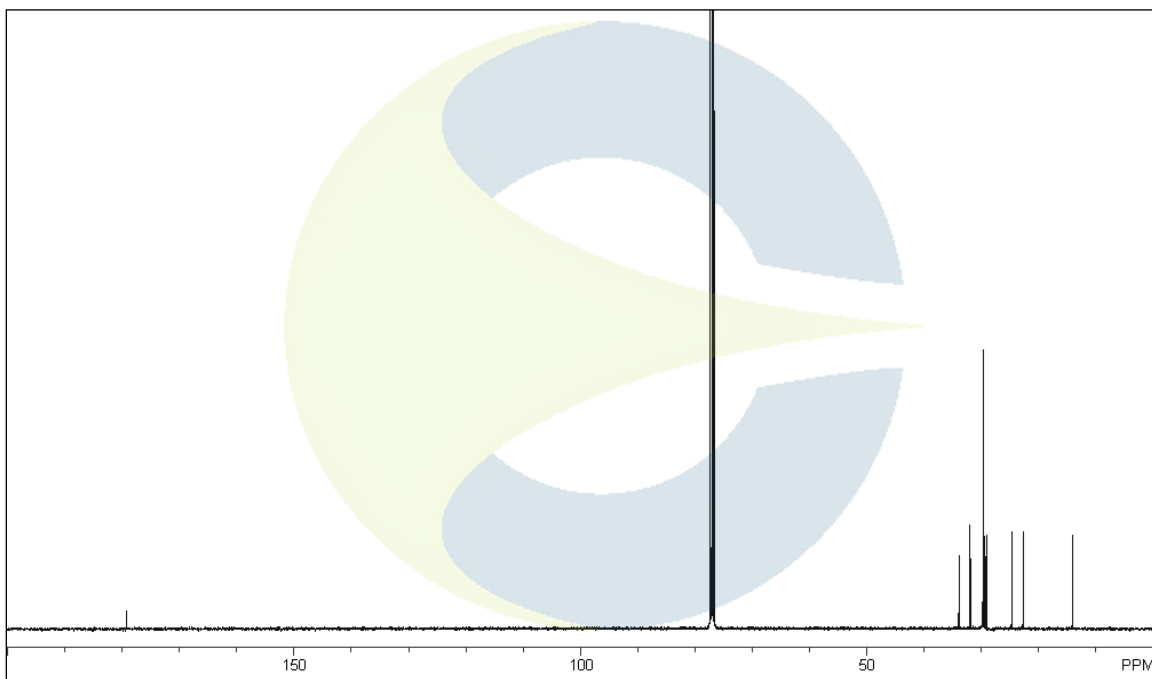
### MASS SPECTRUM OF STEARIC ACID (CDXA-13-3187)



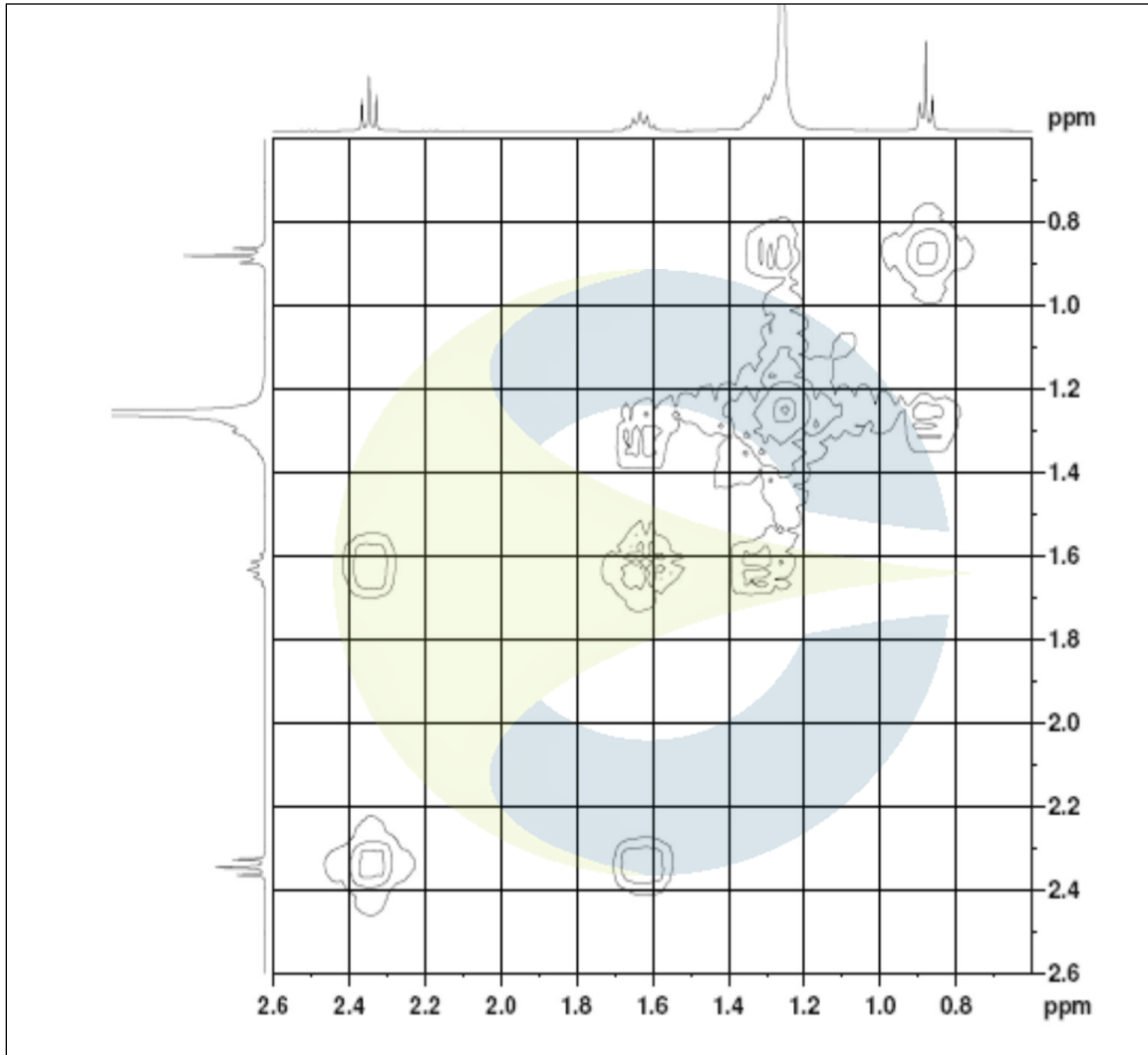
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**<sup>1</sup>H-NMR SPECTRUM OF STEARIC ACID (CDXA-13-3187) IN CDCl<sub>3</sub>****<sup>13</sup>C-NMR SPECTRUM OF STEARIC ACID (CDXA-13-3187) IN CDCl<sub>3</sub>**

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**COSY-NMR SPECTRUM OF STEARIC ACID (CDXA-13-3187) IN CDCl<sub>3</sub>**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	05/31/2013	New report
01	06/22/2018	Passed re-evaluation by GC/MS, KF. Updated expiration date, analytical method, conditions, chromatograms, and results. Removed melting point.
02	05/04/2022	Passed re-evaluation by GC/MS and KF. Updated expiration date, analytical conditions, chromatograms, and results.

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