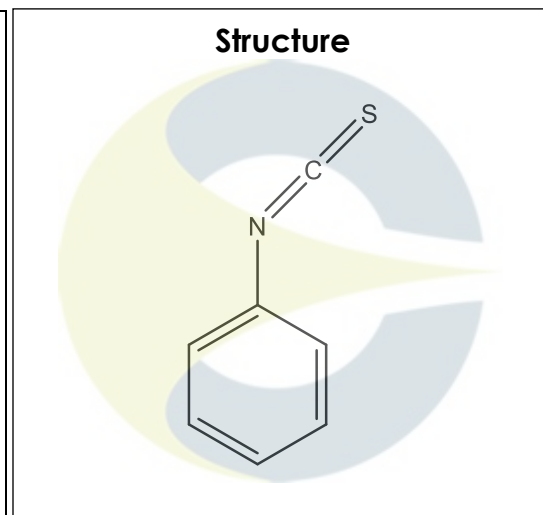


**Certificate of Analysis**
*For Laboratory Use Only*

<b>PRODUCT NAME</b>	Phenyl isothiocyanate
<b>PART NUMBER</b>	00016590
<b>STANDARD TYPE</b>	Analytical Standard (AS)
<b>LOT NUMBER</b>	00016590-U01
<b>REPORT NUMBER</b>	CDXA-RSS-3375-03
<b>SAMPLE NUMBER</b>	CDXA-09-0254
<b>DATE OF SAMPLE</b>	01/19/2009
<b>DATE OF RE-EVALUATION</b>	08/14/2013 (1 <sup>st</sup> ); 01/14/2019 (2 <sup>nd</sup> ); 12/02/2022 (3 <sup>rd</sup> )
<b>DATE OF REPORT</b>	12/08/2022



<b>CHEMICAL NAMES</b>	Benzene-isothiocyanate; Isothiocyanatobenzene; Isothiocyanic acid phenyl ester; Phenyl mustard oil; Phenyl thioisocyanate; Thiocarbanil
<b>CHEMICAL FORMULA</b>	C <sub>7</sub> H <sub>5</sub> NS
<b>MOLECULAR WEIGHT (MW)</b>	135.19
<b>CHEMICAL FAMILY</b>	Isothiocyanates
<b>CAS NUMBER</b>	[103-72-0]
<b>EC#(EINECS)</b>	203-138-1
<b>RTECS</b>	NX9275000

**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**

<b>STORAGE</b>	+4 °C in a dry place.
<b>EXPIRATION DATE</b>	12/2027 under the above conditions.



**Digitally signed by Rob L Reynolds**  
**Date: 2022.12.08 11:28:24 -07'00'**

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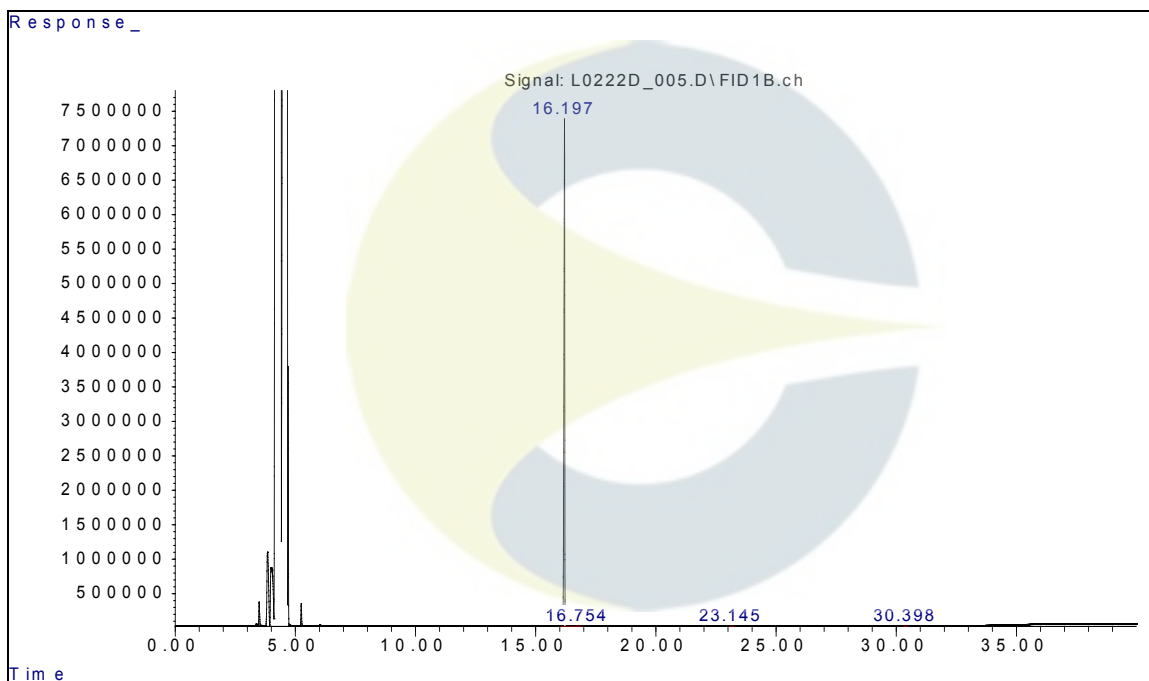
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**ANALYTICAL CONDITIONS**

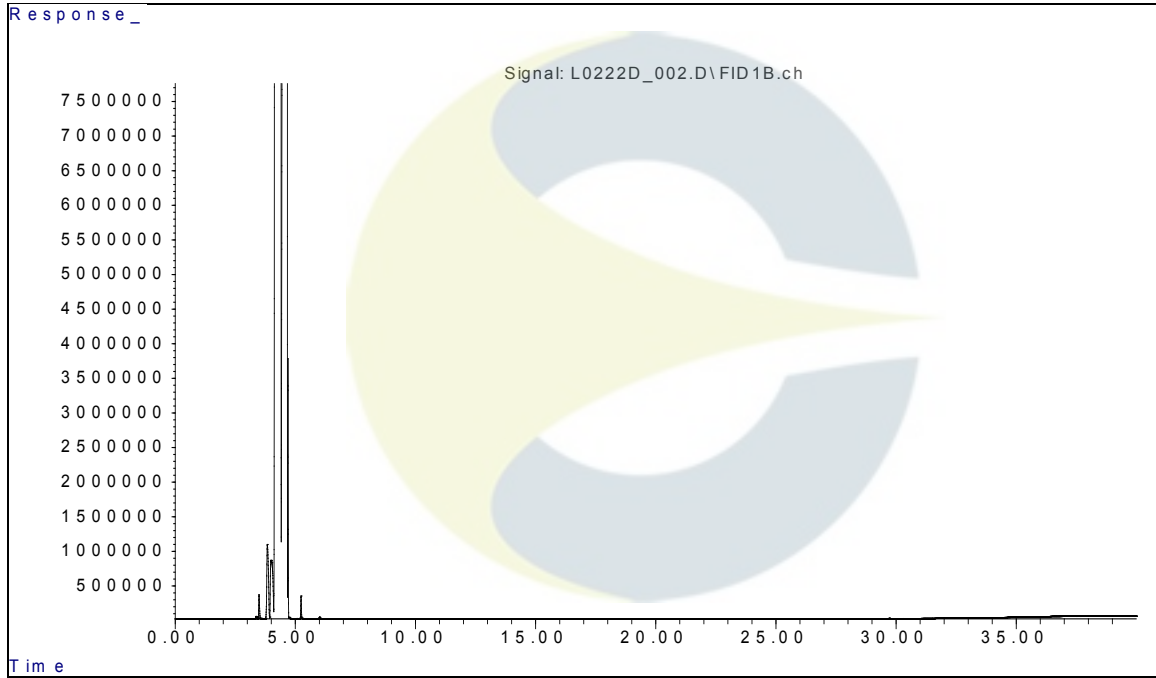
<b>INSTRUMENT</b>	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
<b>COLUMN</b>	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
<b>CARRIER GAS</b>	Helium
<b>COLUMN TEMP.</b>	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 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>	3.5 mg/mL in n-Hexane : Chloroform (1:1)
<b>DETECTION</b>	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

**GC CHROMATOGRAM OF PHENYL ISOTHIOCYANATE (CDXA-09-0254)**

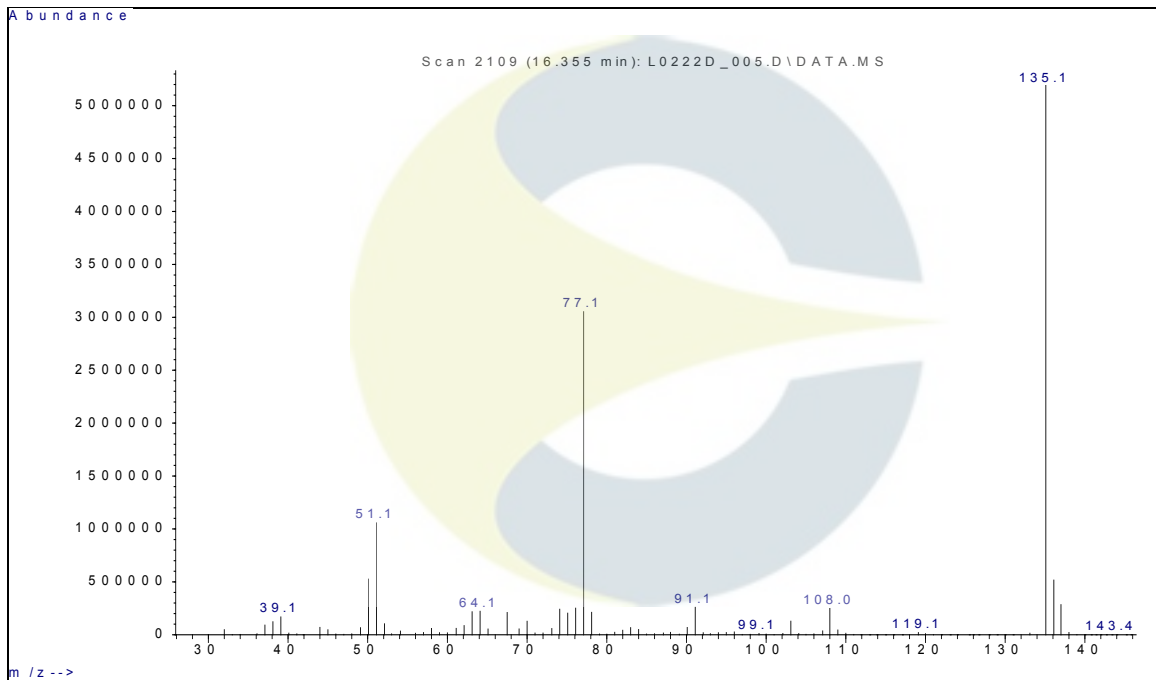


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**GC CHROMATOGRAM OF DILUENT BLANK**



**MASS SPECTRUM OF PHENYL ISOTHIOCYANATE (CDXA-09-0254)**



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**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	04/27/2009	New report
01	08/27/2013	Material passed re-evaluation. updated expiration date.
02	02/07/2019	Material passed re-evaluation, updated expiration date, method, chromatograms, mass spectra, results, and removed melting point.
03	12/08/2022	Material passed re-evaluation, updated expiration date, method, chromatograms, mass spectrum, and results.

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