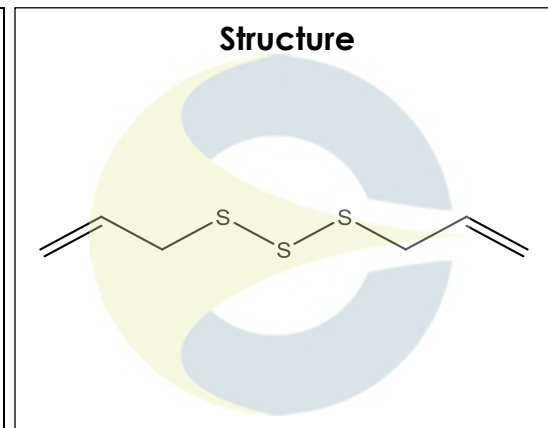


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PRODUCT NAME	Diallyl Trisulfide
PART NUMBER	00004321
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00004321-01A
REPORT NUMBER	CDXA-RSS-10060-00
SAMPLE NUMBER	CDXP-23-00013
DATE OF SAMPLE	01/05/2023
DATE OF REPORT	02/02/2023



CHEMICAL NAMES	Di-2-propen-1-yl trisulfide; Allyl trisulfide; Allitride; Allitridin; Allitridum
CHEMICAL FORMULA	C ₆ H ₁₀ S ₃
MOLECULAR WEIGHT (MW)	178.34
CHEMICAL FAMILY	Sulfides
CAS NUMBER	[2050-87-5]
EC#(EINECS)	218-107-8
RTECS	BC6168000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
HPLC	0.700.10.2.METH22	≥ 75%	87.7%
NMR	0.700.12.4	Conforms to structure	Conforms
Appearance	NA	NA	Clear liquid

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	01/2028 under the above conditions.

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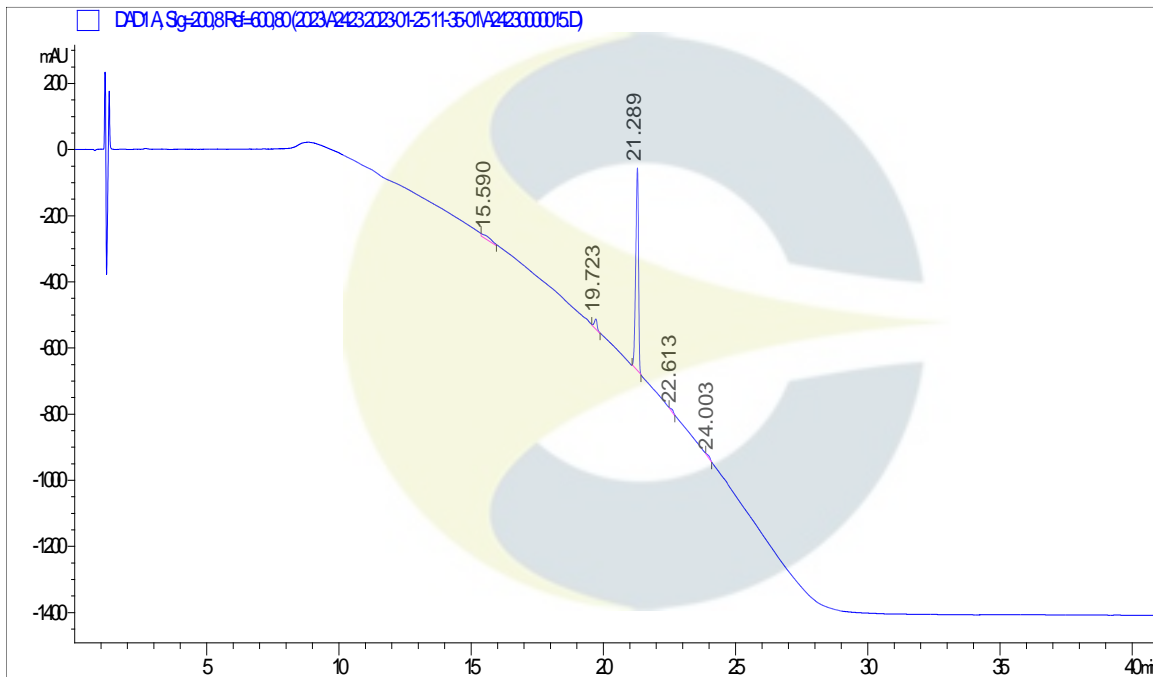
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD)
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.4 µL
INJECTION CONC.	1.2 mg/mL in Methanol
DETECTION	200 ± 4 nm

HPLC CHROMATOGRAM OF DIALLYL TRISULFIDE (CDXP-23-00013)

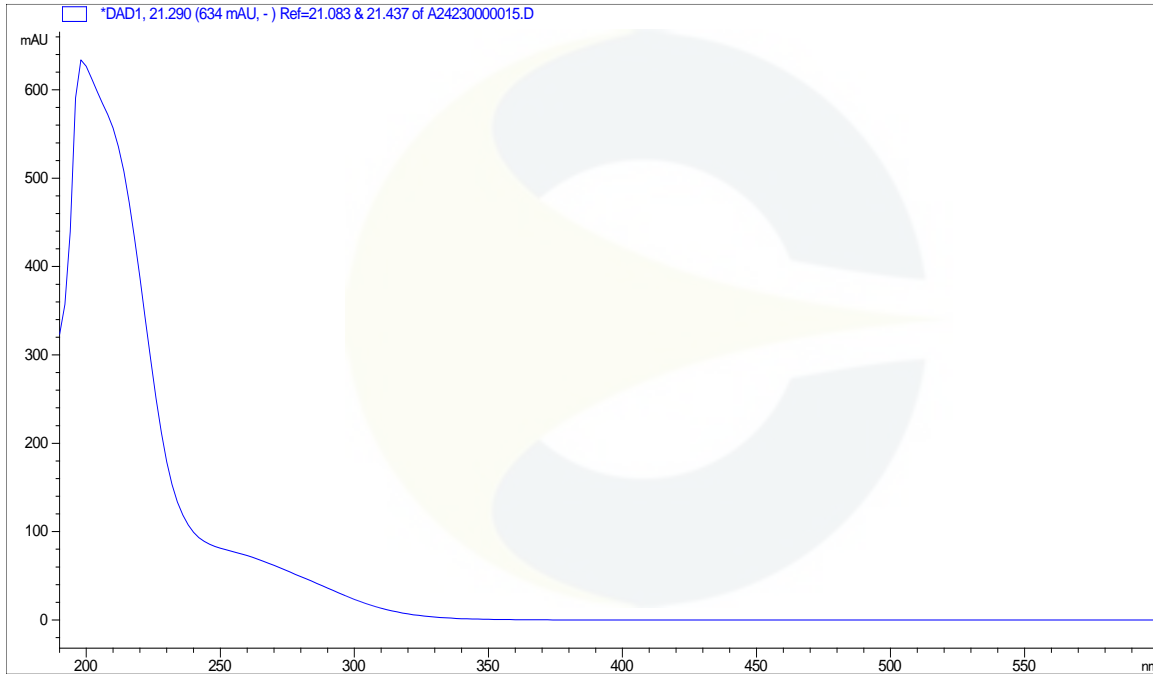


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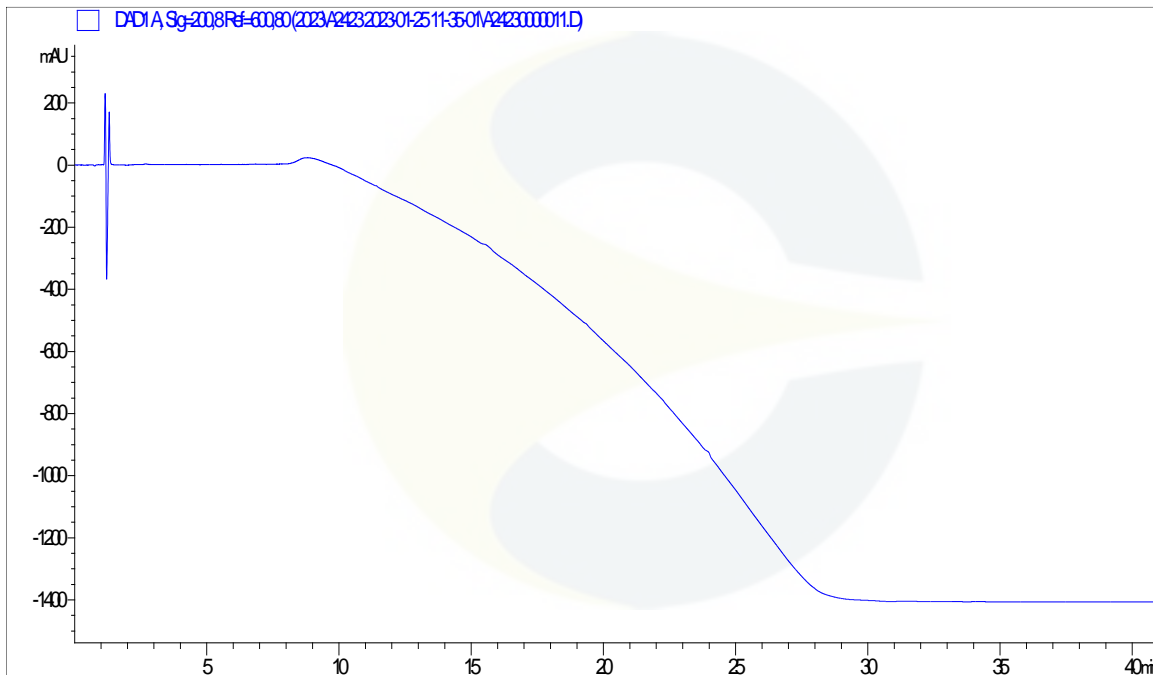
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UV SPECTRUM AT RT =21.3 MINUTES

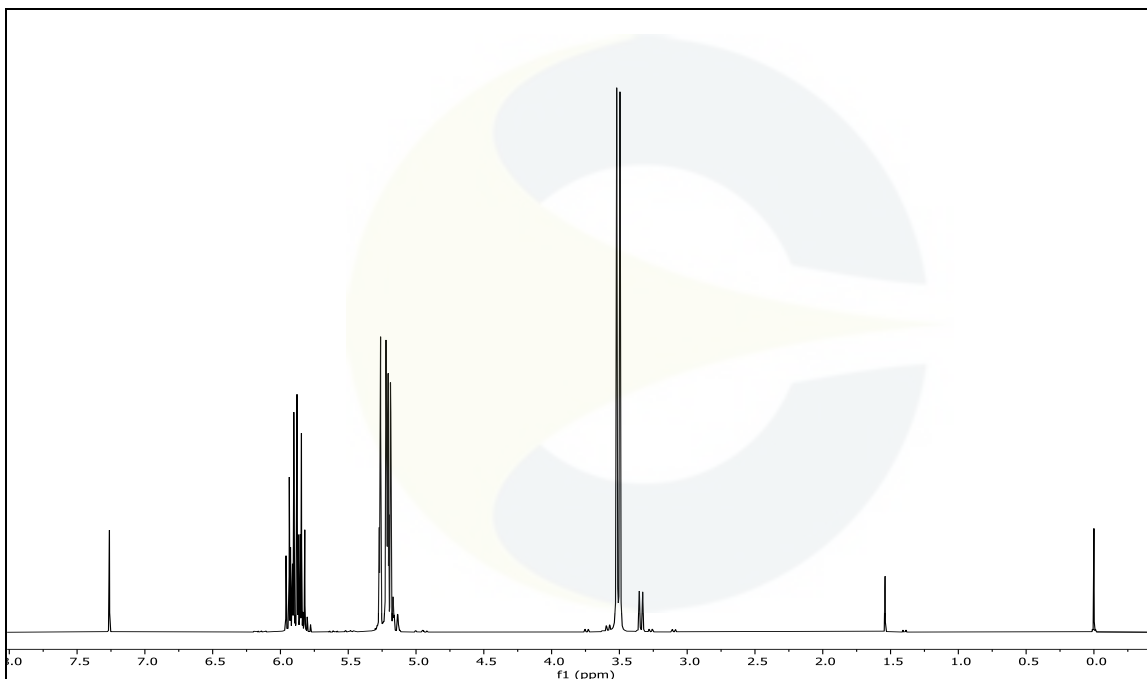


HPLC CHROMATOGRAM OF DILUENT BLANK

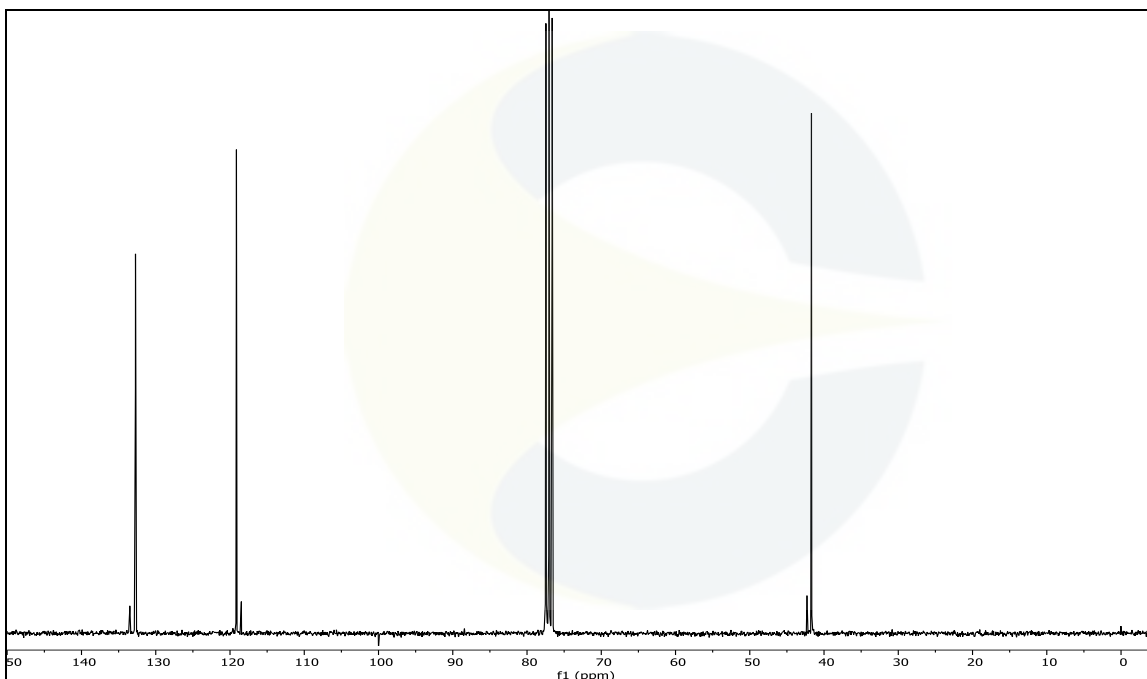


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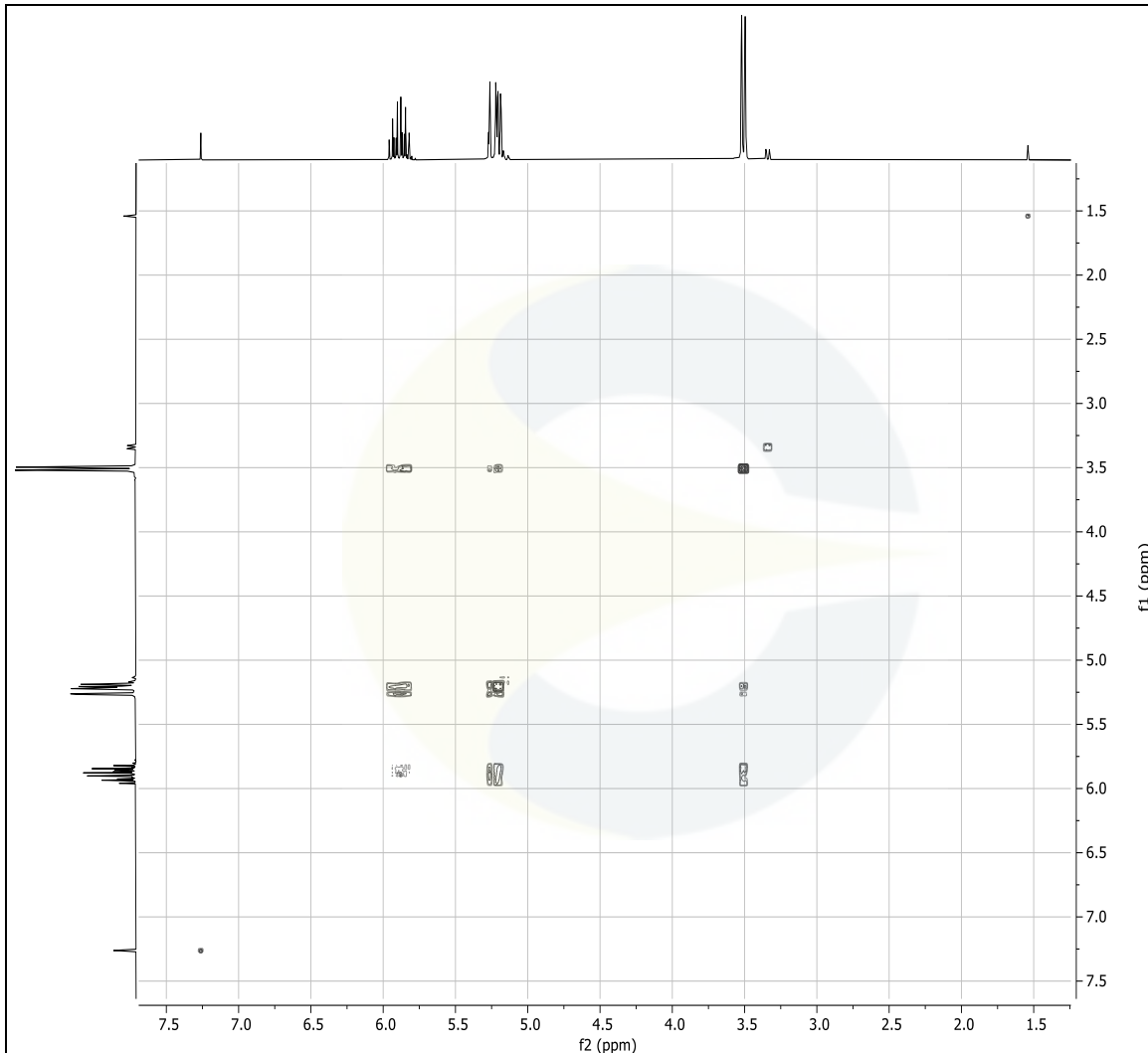
¹H-NMR SPECTRUM OF DIALLYL TRISULFIDE (CDXP-23-00013) IN CDCl₃ + TMS



¹³C-NMR SPECTRUM OF DIALLYL TRISULFIDE (CDXP-23-00013) IN CDCl₃ + TMS



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COSY-NMR SPECTRUM OF DIALLYL TRISULFIDE (CDXP-23-00013) IN CDCl₃ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/02/2023	New report

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