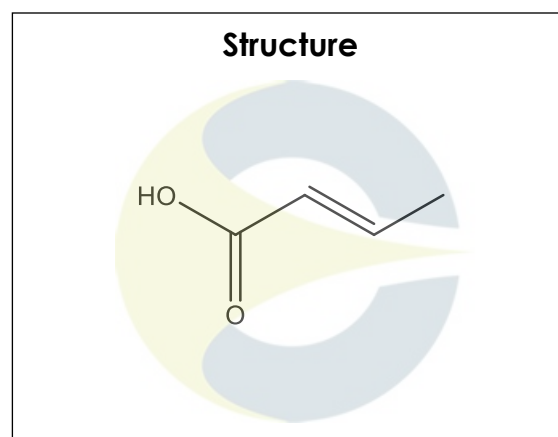


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PRODUCT NAME	Crotonic acid
PART NUMBER	00003892
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00003892-621
REPORT NUMBER	CDXA-RSS-9465-00
SAMPLE NUMBER	CDXP-21-00552
DATE OF SAMPLE	08/16/2021
DATE OF REPORT	09/03/2021



CHEMICAL NAMES	(2E)-2-Butenoic acid; (E)-Crotonic acid; trans-2-Butenoic acid; trans-Crotonic acid
CHEMICAL FORMULA	C ₄ H ₆ O ₂
MOLECULAR WEIGHT (MW)	86.09
CHEMICAL FAMILY	Organic acids
CAS NUMBER	[107-93-7]
EC#(EINECS)	203-533-9
RTECS	GQ2900000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	See below	≥ 75%	99.9%
Mass Spectrum	See below	Conforms	Conforms
Appearance	NA	NA	White powder

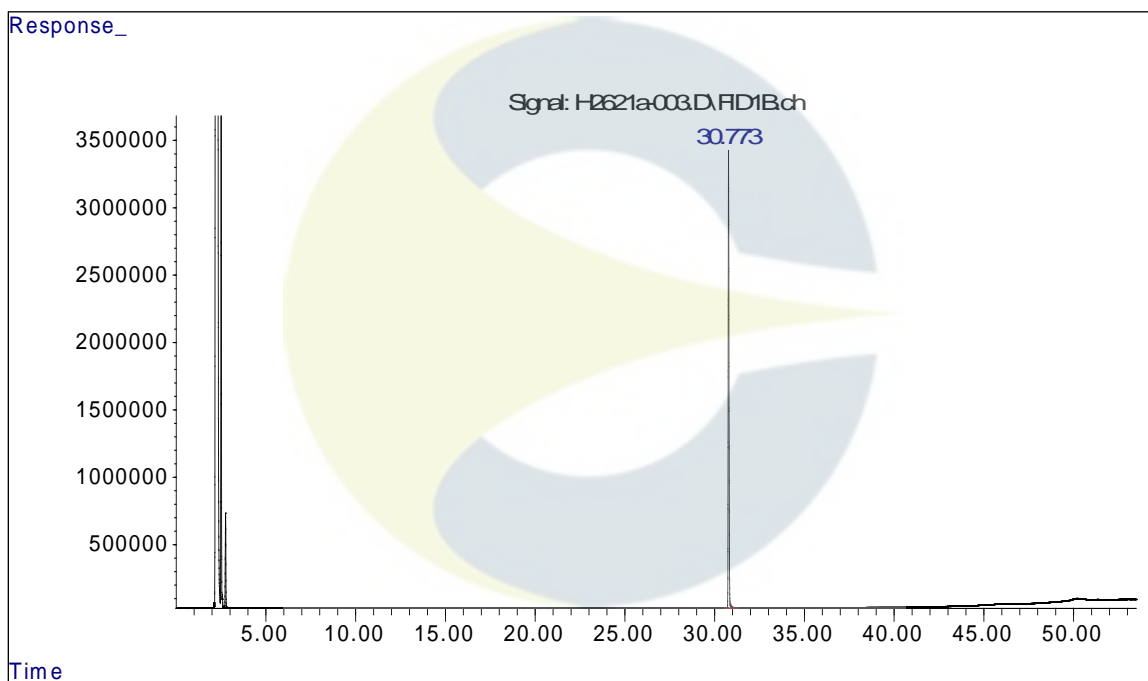
STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	08/2026 under the above conditions.

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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
COLUMN	Agilent DB-WAX UI, 30 m x 0.25 mm x 0.5 µm
CARRIER GAS	Helium
COLUMN TEMP.	Isothermic 50 °C for 3.0 minutes, then increasing at 4.0 °C/minute to 240 °C. Hold at 240 °C for 3.0 minutes.
FLOW RATE	2.0 mL/minute
INJECTOR TEMP.	240 °C
INJECTOR SPLIT RATIO	10:1
INJECTION VOL.	1.0 µL
INJECTION CONC.	2.1 mg/mL in n-Hexane
DETECTION	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

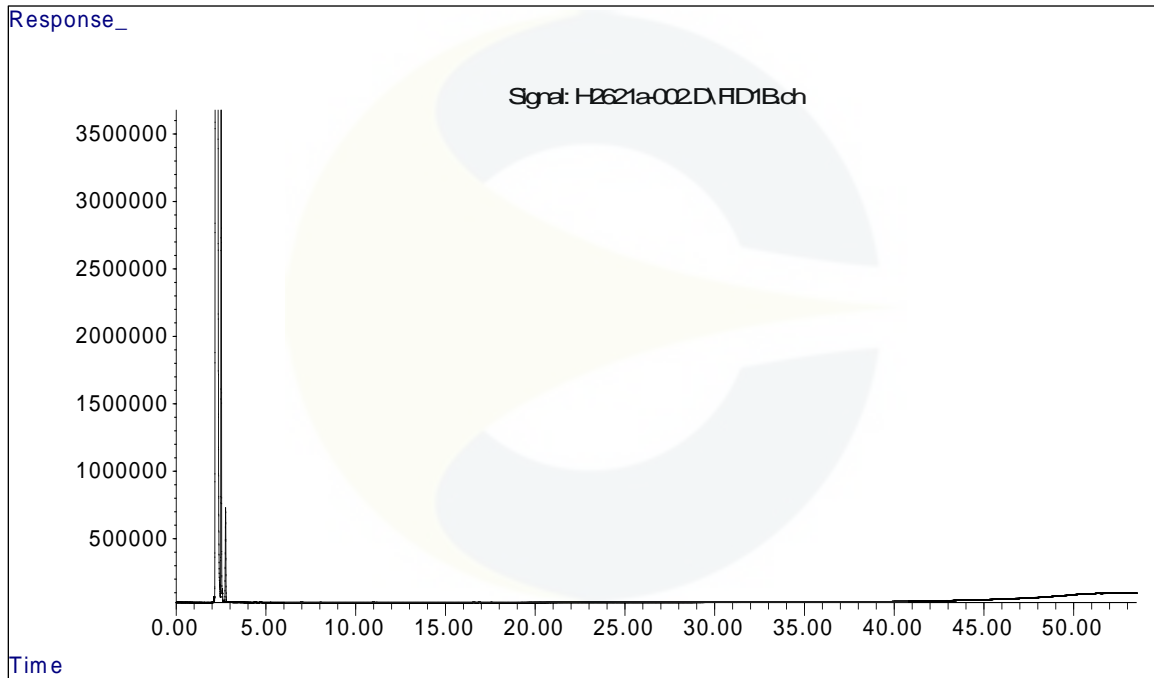
GC CHROMATOGRAM OF CROTONIC ACID (CDXP-21-00552)


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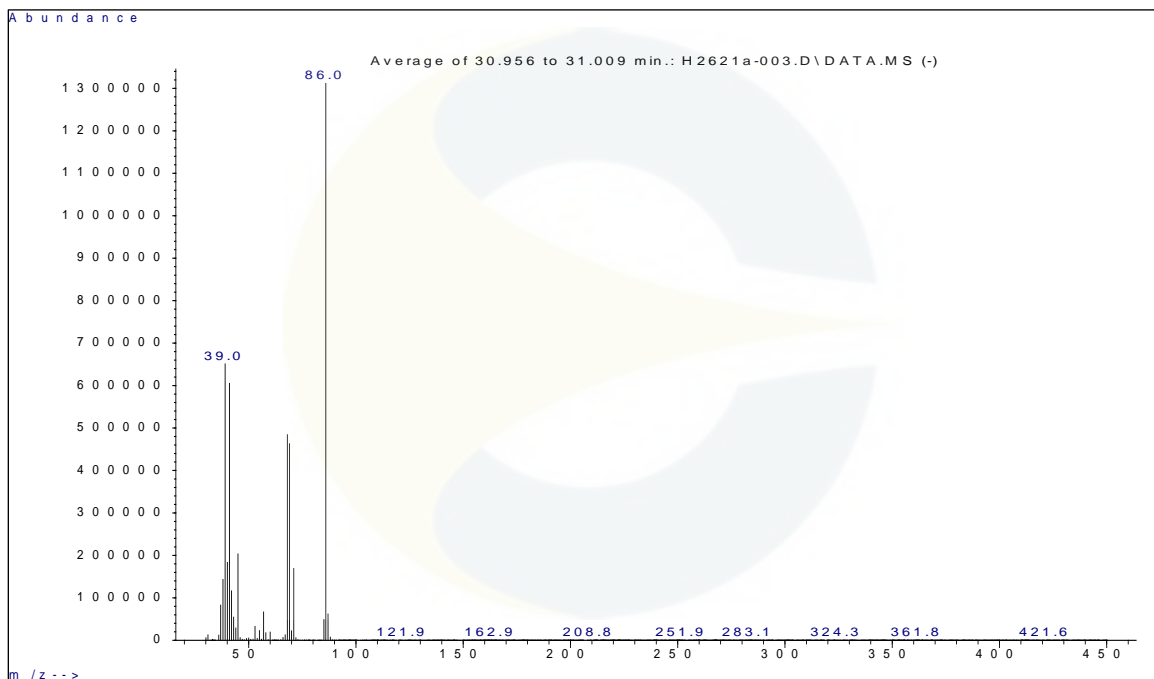
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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF CROTONIC ACID (CDXP-21-00552)



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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/03/2021	New report

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