

Certificate of Analysis

Ethyl Acrylate (stabilized with MEHQ)

PurCert Standard for GC

Product Number	PSR28352	CAS No.	140-88-5
Pack Size	100ML	Lot No.	PU04T
Molecular Formula	C ₅ H ₈ O ₂	Date of Mfg.	April,2021
Molecular Weight	100.12g/mol	Date of Exp.	March,2025

Test	Specification	Result
Description	Colorless liquid	Colorless liquid
Clarity	Clear	Clear
Assay (GC-FID)	≥ 99.5 %	99.99%
Water (by KF)	<0.02%	0.020 %
Identification by ¹ H NMR	Conform to structure	Conforms
Identification by GC-MS	Conform to molecular	Conforms
Identification by IR	Conform to structure	Conforms

***Traceable to Internal Reference standard.**

Storage Condition: Store at 0-10°C.

Remark: The batch complies with the prescribed quality of the above specification.

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Assay by GC-FID

METHOD: G.C- FID conditions:

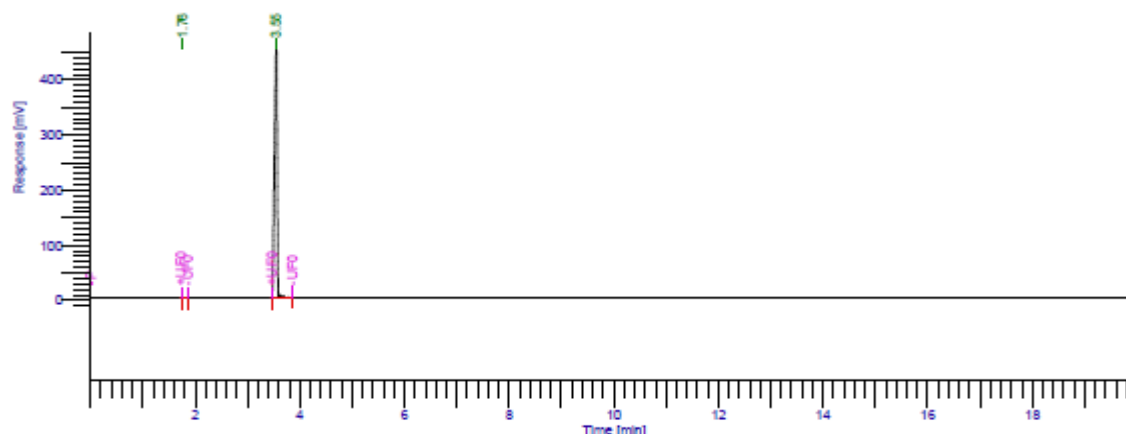
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

Instrument: PerkinElmer, GC 2014,

Detector: FID, **Carrier gas:** Nitrogen

Temp programming: Initial 50°C hold for 1min, 5°C Ramp/ min., 100 °C hold for 1 min., 25°C Ramp up to 250°C hold for 2 min., Run time 20 min.

Software Version	: 6.3.4.0700	Date	: 25-05-2021 10.16.17 AM
Operator	: manager	Sample Name	: AR21000284-Ethylacrylate- PU04T
Sample Number	: 1	Study	: GC Purity
AutoSampler	: BUILT-IN	Rack/Vial	: 0/10
Instrument Name	: Clarus 680	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 20.00 min
Sampling Rate	: 12.5000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 25-05-2021 9.54.49 AM	Cycle	: 1



GC Reports

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		1.760	190.43	50.46	0.01
2		3.549	1604946.23	458790.57	99.99
		1605136.66	458841.03	100.00	

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Purity by GC-FID: 99.99 %

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IDENTIFICATION TESTS

GC-MS Spectrum:

METHOD: G.C-MS conditions:

Column: Agilent Technologies, Elite -5MS, 30 m X 0.25 mm, 1.0micron

Instrument: Perkin Elmer, **Carrier gas:** Helium

Source Temp.: 230°C, **Transfer line:** 250°C

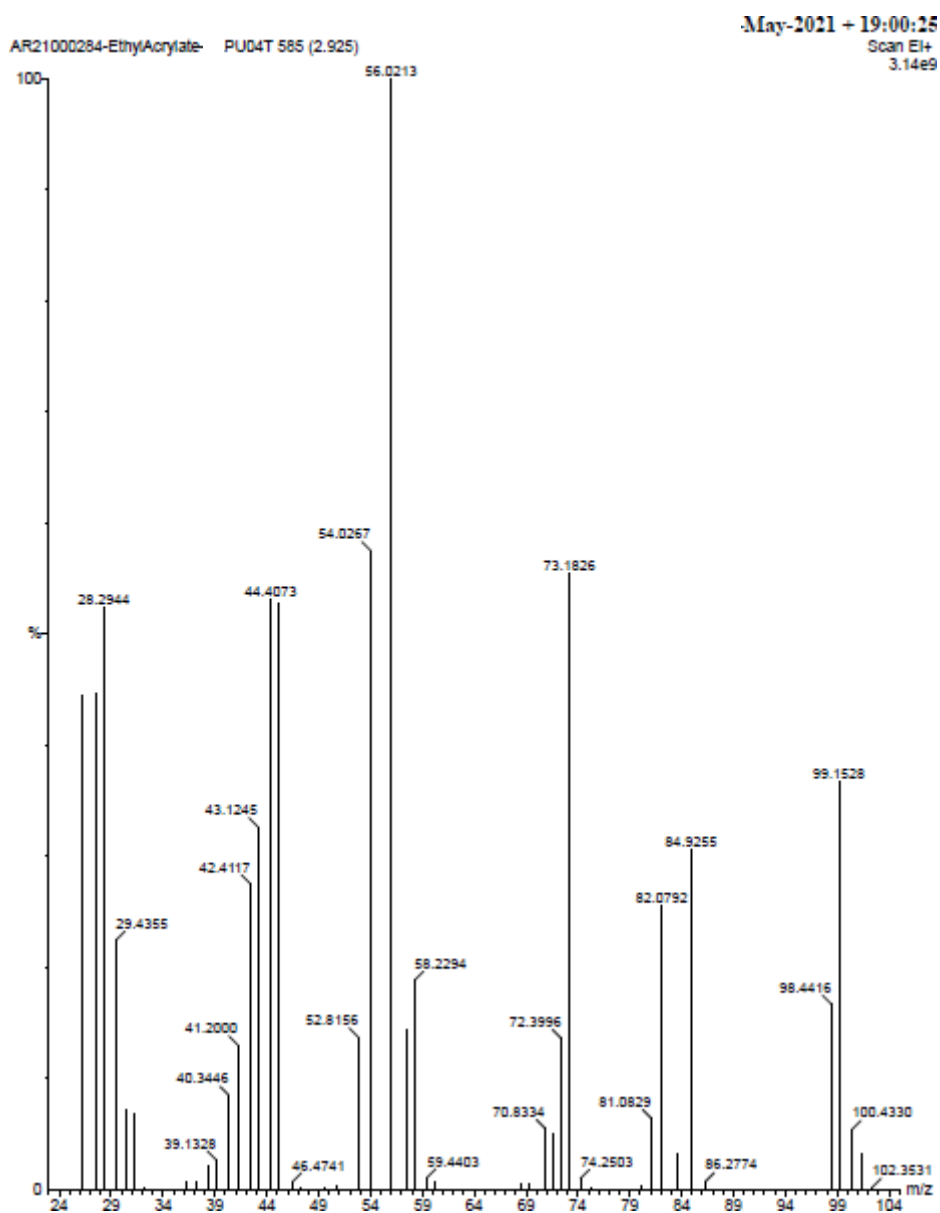
Inlet Temp.: 180°C, **Diluent:** Methanol

Source energy: 70eV

Mass by GC-MS:

Product Name: Ethyl Acrylate (stabilized with MEHQ)

Product Code: PSR28352



Identification by GC-MS: Conform to molecular

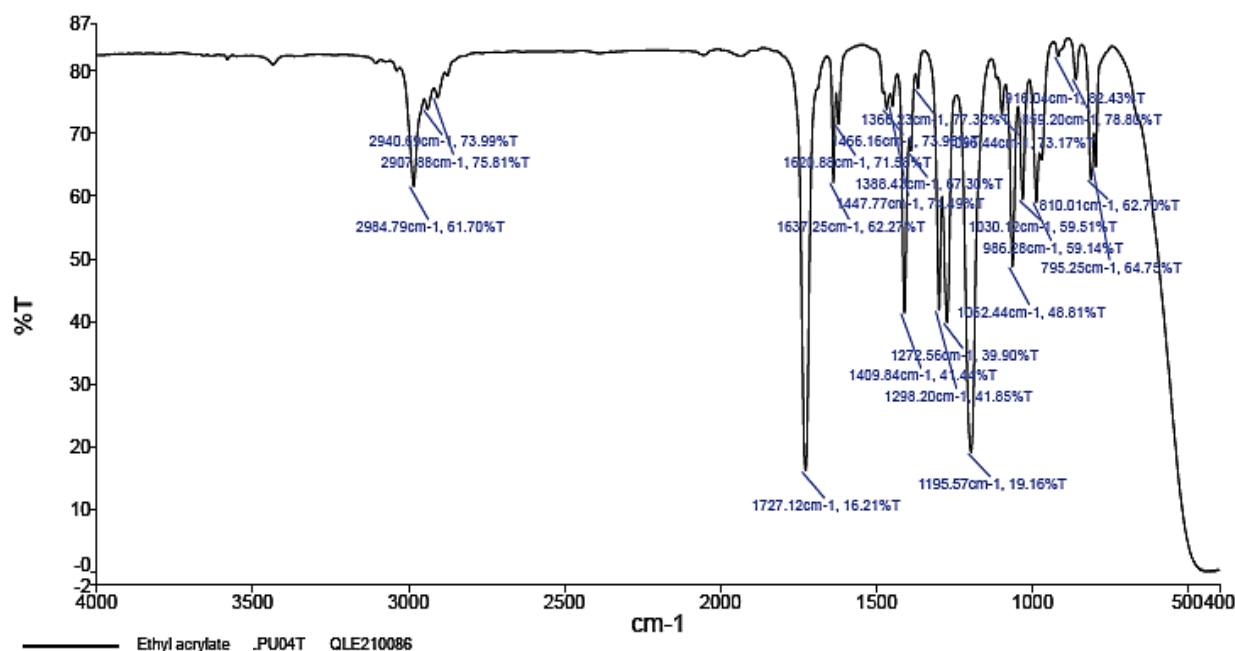
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Infrared spectrum:

Product Name: Ethyl Acrylate (stabilized with MEHQ)

Product Code: PSR28352



Source Spectra Results		
Spectrum Name		Number Of Peaks
Ethyl acrylate, PU04T		30
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	2984.79	61.70
2	2940.69	73.99
3	2907.88	75.81
4	1727.12	16.21
5	1637.25	62.27
6	1620.88	71.58
7	1466.16	73.98
8	1447.77	74.49
9	1409.84	41.44
10	1388.43	67.30
11	1366.23	77.32
12	1298.20	41.85
13	1272.56	39.90
14	1195.57	19.16
15	1096.44	73.17
16	1062.44	48.81
17	1030.12	59.51
18	986.28	59.14
19	916.04	82.43
20	859.20	78.80
21	810.01	62.70
22	795.25	64.75
23	458.95	0.26
24	455.01	0.20
25	441.00	0.07
26	435.50	0.06
27	423.50	0.07
28	411.50	0.09
29	407.72	0.15
30	403.94	0.19

Identification by IR: Conform to structure

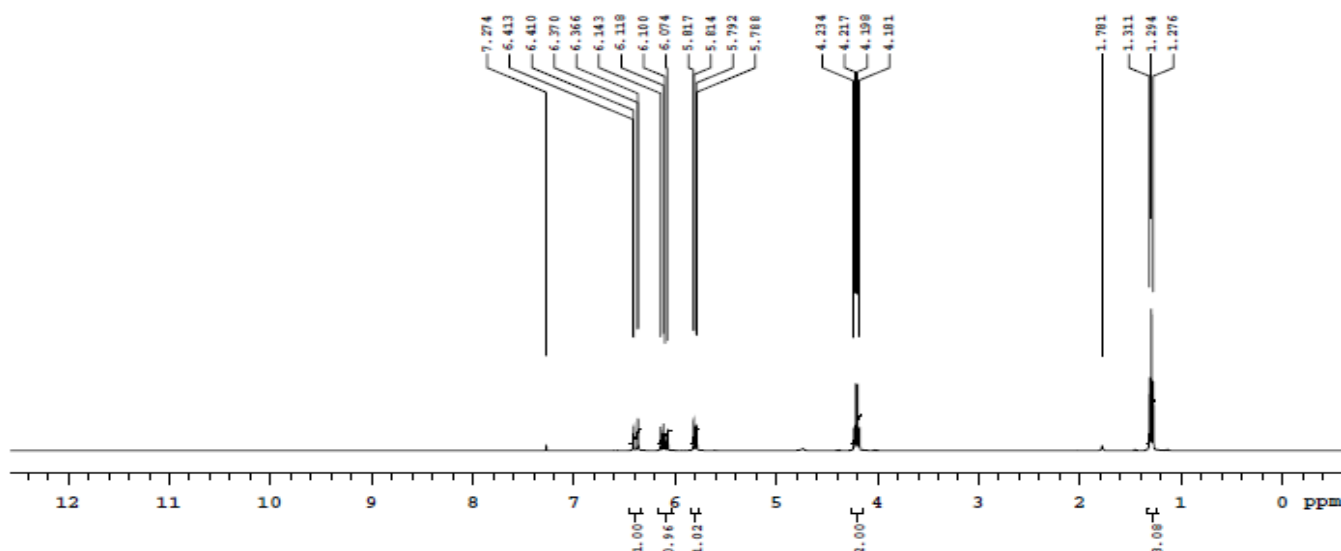
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¹H NMR Spectrum:

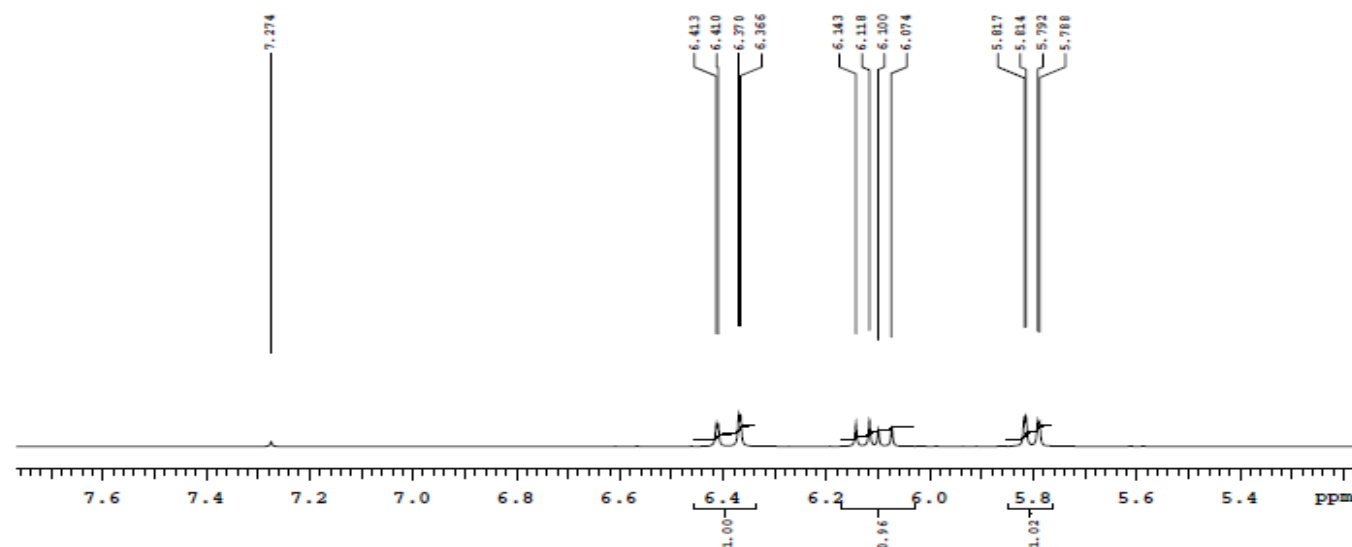
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PULSE SEQUENCE Relax. delay 1.000 sec Pulse 45.0 degrees Acq. time 3.408 sec Width 9615.4 Hz 16 repetitions	OBSERVE H1, 399.8212844	DATA PROCESSING Line broadening 1.0 Hz FT size 65536 Total time 1 minute		Ethylacrylate P004T
				Solvent: cdcl3 Ambient temperature Operator: vnmr1 File: Ethylacrylate

¹H NMR Spectrum: Expansion

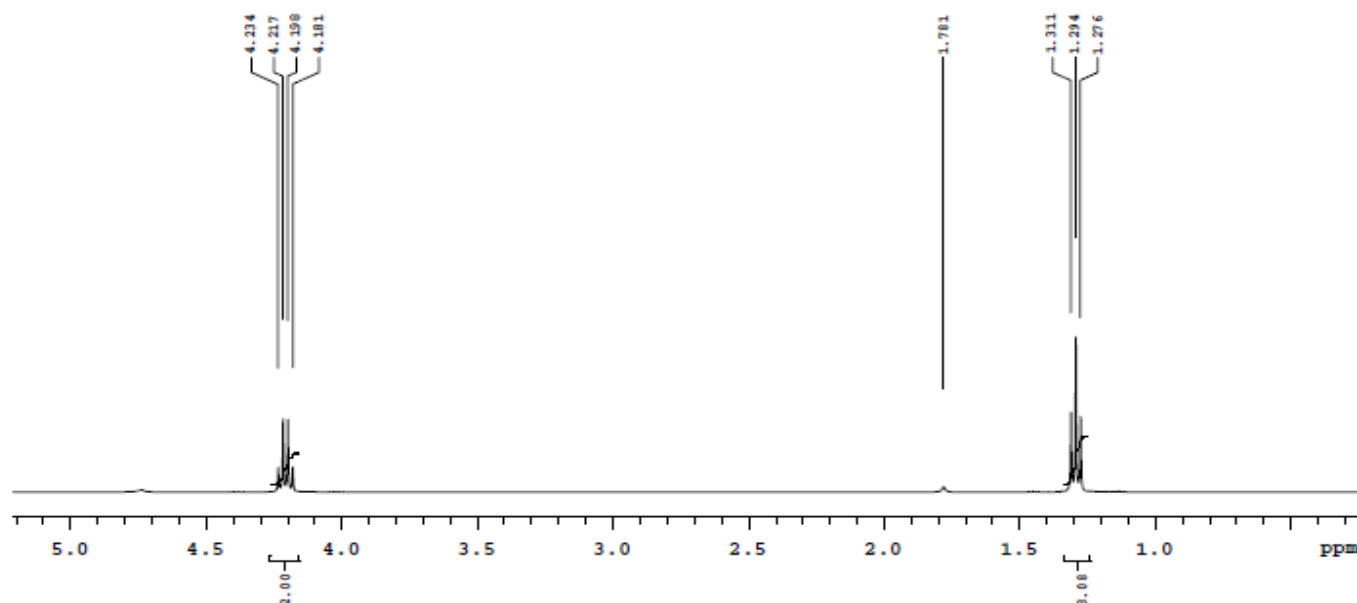


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¹H NMR Spectrum: Expansion



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Identification by ¹H NMR: Conform to structure

Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR28352) = **0.020%**

Approved By
Head - Technical

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