

Certificate of Analysis

Product Name:

Butyl acetate PurCert Secondary Reference Standard for GC (CRM) [Includes all characterization data]

Product No.: PSR28307
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 123-86-4
Molecular Formula: C₆H₁₂O₂
Molecular Weight: 116.16 g/mol
Date of Mfg.: NA
Date of Exp.: NA

Test	Specification	Result
Appearance	Colorless liquid	Colorless Liquid
Assay (By GC)	≥ 99.0 %	99.91 %
Water (By KF)	NMT 0.01 %	0.009 %
Potency	-	99.90 %
Density	0.85-0.90 g/cm ³	0.87 g/cm ³
¹ H NMR Spectrum	Conforms to structure	Conforms
Mass Spectrum	Conforms to molecular mass	Conforms
IR Spectrum	Conforms to structure	Conforms

***Traceable to USP Reference standard 1082606, Current Lot No. R22680.**

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For queries on this COA, please contact our technical team at technical@pure-synth.com

ASSAY BY GC-FID

METHOD: GC- FID conditions:

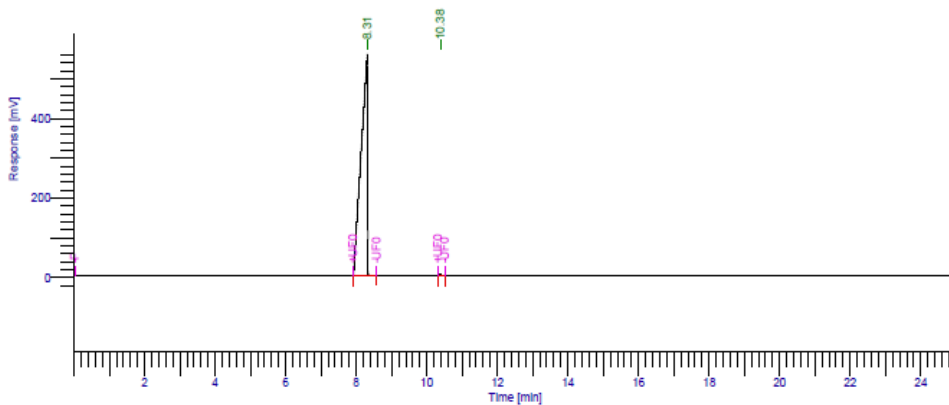
Column: Agilent Technologies DB-FFAP 30mx 0.530mm, 1.0micron

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	: 26-03-2026 17:08:25
Operator	: manager	Sample Name	: BUTYL ACETATE-B28307H0326
Sample Number	: 001	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 0/4
Instrument Name	: Clarus 690	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 25.00 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	: 26-03-2026 15:25:58	Cycle	: 1



GC Reports

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1		8.313	6890467.70	556502.50	99.91
2		10.384	6374.76	2240.04	0.09
			6896842.46	558742.55	100.00

Missing Component Report

Component Expected Retention (Calibration File)

All components were found

Assay by GC: 99.91 %

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IDENTIFICATION TESTS

GC-MS Spectrum:

METHOD: GC-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

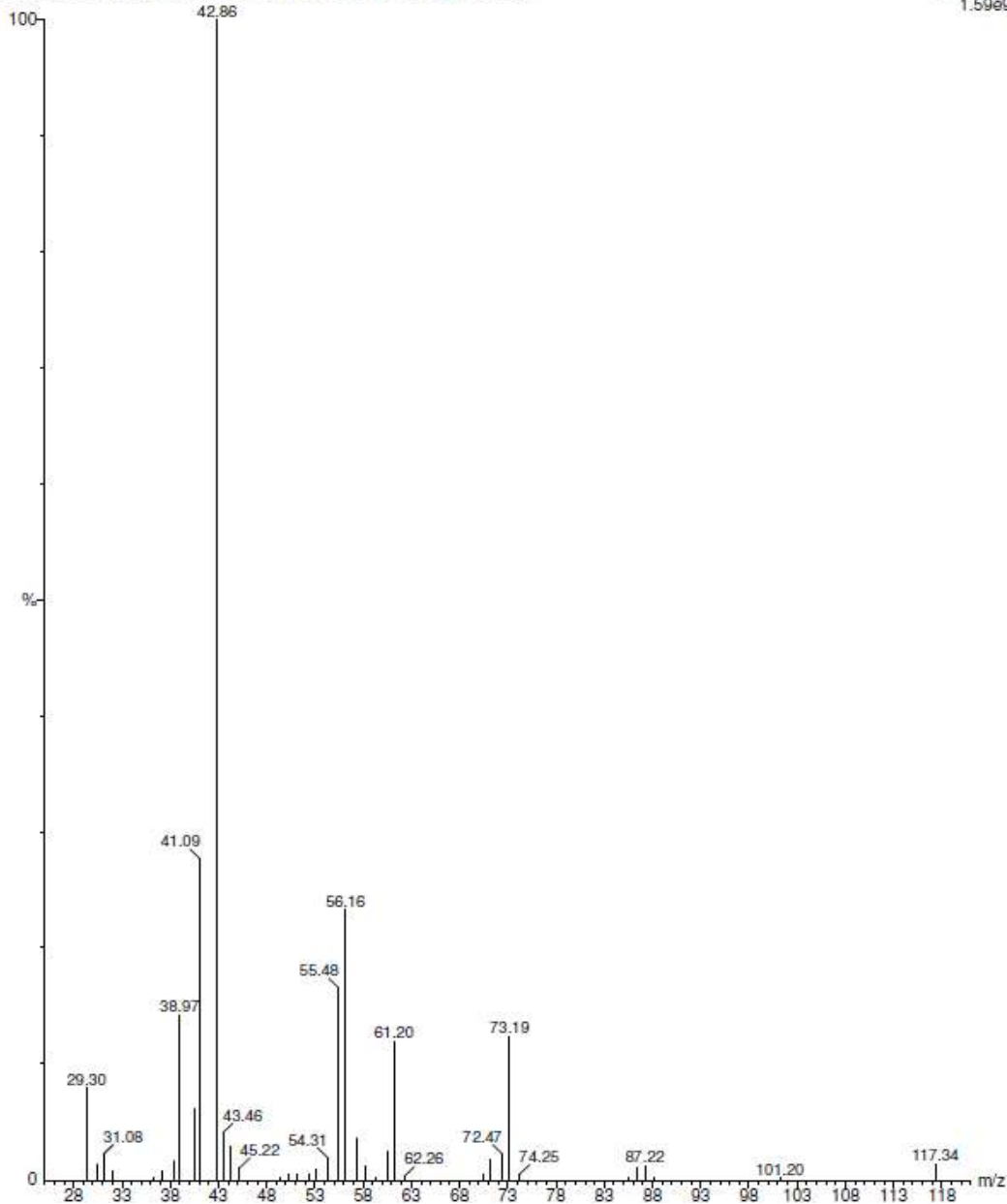
Source energy: 70eV

Butyl acetate_B28307H0326

2526030640_Butyl acetate_B28307H0326 673 (3.365) Cm (646:706)

, 26-Mar-2026 + 13:04:21

Scan EI+
1.59e9



Identification by GC-MS: Conforms to molecular mass

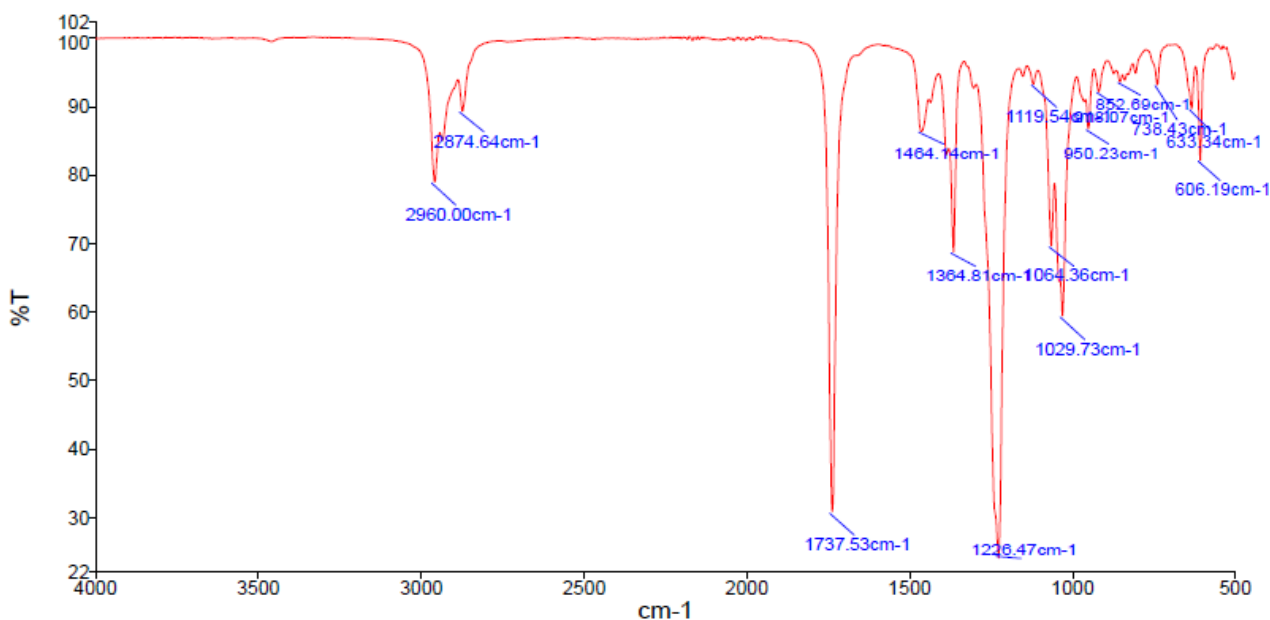
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Infrared spectrum:

Product Name: Butyl acetate
Product Code: PSR28307

Analyst: Analyst
 Date: 26 March 2026 17:17



2526030640-Butyl Acetate_1 B.No-B28307H0326

Source Spectra Results		
Spectrum Name	Number Of Peaks	
2526030640-Butyl Acetate_1	15	
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	2960.00	79.10
2	2874.64	89.46
3	1737.53	30.86
4	1464.14	86.50
5	1364.81	68.84
6	1226.47	24.05
7	1119.54	93.40
8	1064.36	69.77
9	1029.73	59.50
10	950.23	86.85
11	918.07	92.31
12	852.69	93.74
13	738.43	93.31
14	633.34	89.80
15	606.19	82.28

Identification by IR: Conforms to structure

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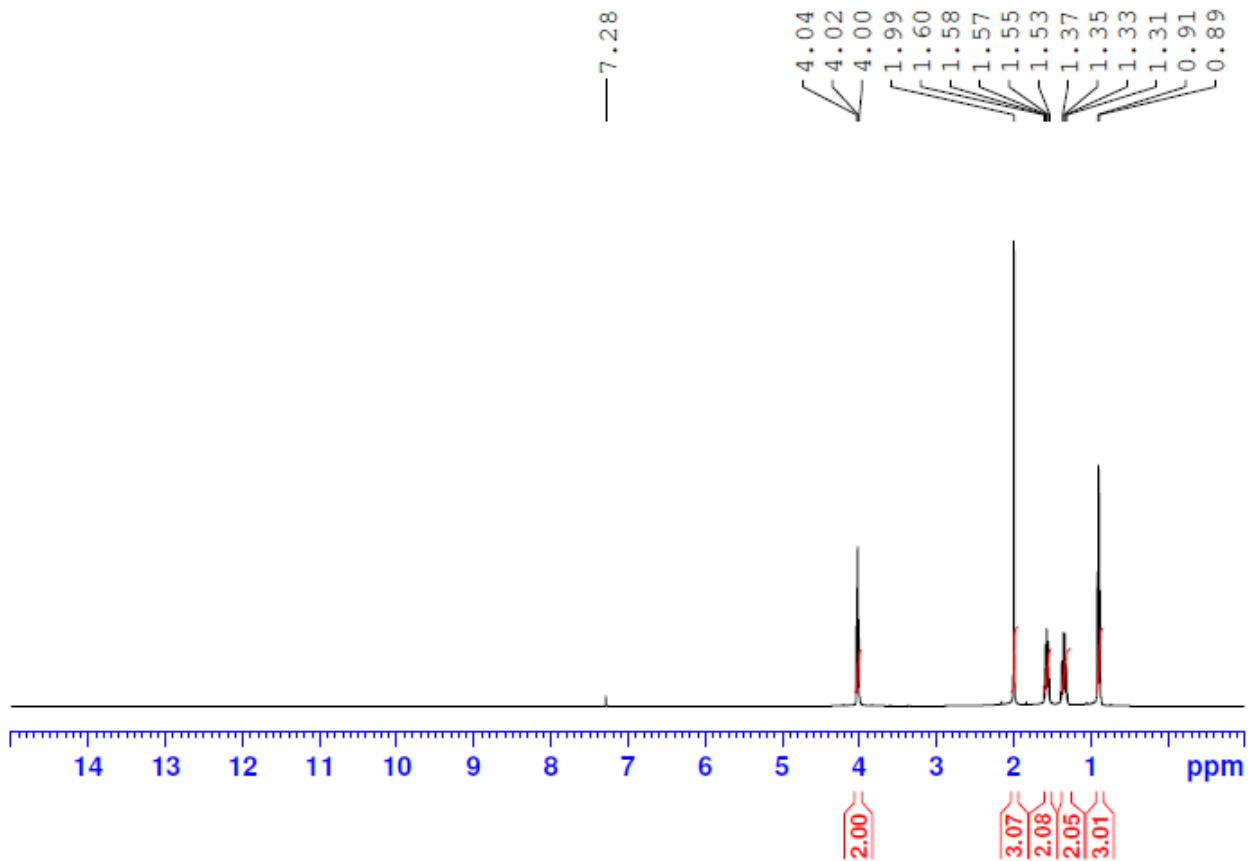
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64683 Einhausen Marie-Curie-Str. 3, Germany
Website: www.pure-synth.com
Phone: 1800-8908-260
Email: info@pure-synth.com

¹H NMR Spectrum:

Product Name: Butyl acetate
Product Code: PSR28307

Butyl acetate
B.No-B28307H0326
1H-NMR in CDCl₃



Identification by ¹H NMR: Conforms to structure

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Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR28307) = **0.009 %**

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

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