



Batch / Lot Number: 05/14-30/2D Sample

Certificate of Analysis

Job No: 05172026-01

Vessel Serial Number: EX 00705

Location: Pasadena, TX
Job Type: Submitted Sample
Product Grade: Butane
Client Reference: Puretane Butane

Date Received: 05/17/2026
Date Tested: 05/17/2026
Version: 1

Sample

EX 00705

Sample ID, Type & Description

300cc Cylinder/ Submitted Sample

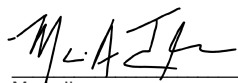
Method	Test	Min	Max	Result	Units	Remarks
ASTM D2163	Composition					
	Methane/Air			0.075	Wt %	
	Ethane			0.062	Wt %	
	Propane			0.082	Wt %	
	n-Butane			99.683	Wt %	
	Isobutane			0.057	Wt %	
	Pentanes			0.041	Wt %	
	Hexanes+			ND	Wt %	Not detected, < 0.001 %
	Total Olefins (Unsaturation)			ND	Wt %	Not detected, < 0.001 %
ASTM D5623	Total Sulfur Species			ND	ppm Wt	Not detected, < 0.1 ppm
ASTM D1142	Moisture Content			ND	ppm Vol	Not Detected, < 1.0 ppm
IHM / GCMS	Total BTEX			ND	ppm Wt	Not Detected, < 1.0 ppm
ASTM 7423	Total Alcohols			ND	ppm Wt	Not Detected, < 1.0 ppm
ASTM 5623	Total Metals			ND	ppb Wt	Not Detected, < 1.0 ppb

Notes:

- The analytical results were obtained using the above submitted sample as received and designated by the client. This is for reference only as we cannot guarantee the integrity of the submitted sample.
- All submitted samples are retained in compliance with 40 CFR 80.335

Definitions:

- IHM / GCMS: In House Method / Gas Chromatography Mass Spectrometry
- ND: Not Detected, below detection limit in remarks.


Mario Ibarra
Laboratory Manager

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Sample

EX 00705

Sample ID, Type & Description

300cc Cylinder/ Submitted Sample

Test Method Detail

Test Method	Parameter	Min	Result	Units
ASTM D2163	Methane	0.001 %	0.075	Wt %
	Ethane	0.001 %	0.062	Wt %
	Ethylene	0.001 %	ND	Wt %
	Propane	0.001 %	0.082	Wt %
	Cyclopropane	0.001 %	ND	Wt %
	Propylene	0.001 %	ND	Wt %
	Isobutane	0.001 %	0.057	Wt %
	n-Butane	0.001 %	99.683	Wt %
	1,2 Propadiene	0.001 %	ND	Wt %
	Trans-2-butene	0.001 %	ND	Wt %
	1-butene	0.001 %	ND	Wt %
	Isobutylene	0.001 %	ND	Wt %
	Cis-2-butene	0.001 %	ND	Wt %
	Neopentane	0.001 %	ND	Wt %
	Isopentane	0.001 %	ND	Wt %
	Pentane	0.001 %	0.041	Wt %
	1,3 Butadiene	0.001 %	ND	Wt %
	Trans-2-pentene	0.001 %	ND	Wt %
	2-methyl-2-butene	0.001 %	ND	Wt %
	1-pentene	0.001 %	ND	Wt %
	Cis-2-pentene	0.001 %	ND	Wt %
	Hexanes Plus	0.001 %	ND	Wt %

Test Method	Compound Name	CAS	ppm as Species	ppm as Sulfur
ASTM D5623	Hydrogen Sulfide	7783-06-4	< 0.1	< 0.05
	Carbonyl Sulfide	463-58-1	< 0.1	< 0.05
	Carbon Disulfide	75-15-0	< 0.1	< 0.05
	Methyl Mercaptan	74-93-1	< 0.1	< 0.05
	Dimethyl Sulfide	75-18-3	< 0.1	< 0.05
	Ethyl Mercaptan	75-08-1	< 0.1	< 0.05
	Ethyl Methyl Sulfide	624-89-5	< 0.1	< 0.05
	Isopropyl Mercaptan	75-33-2	< 0.1	< 0.05
	Diethyl Sulfide	352-93-2	< 0.1	< 0.05
	Thiophene	110-02-1	< 0.1	< 0.05
	Dimethyl Disulfide	624-92-0	< 0.1	< 0.05
	n-Butyl Mercaptan	109-79-5	< 0.1	< 0.05
	Isobutyl Mercaptan	513-44-0	< 0.1	< 0.05
	Diethyl Disulfide	110-81-6	< 0.1	< 0.05

Test Method	Compound Name	CAS	ppm Mol
IHM / GCMS	Benzene	7783-06-4	< .5
	Toluene	465-58-1	< .5
	Ethylbenzene	75-15-0	< .5
	Xylenes	74-93-1 / 75-18-3	< .5