

PLANT: Channahon, IL

MFG DATE: 05-22-2023 09:47 AM

GLOBAL RARE GASES

2533 TRACY ROAD

NORTHWOOD, OH 43619

CERTIFICATE OF ANALYSIS

DCPC PRODUCT NAME: Propane, Instrument Purity, 2.5

CUST PRODUCT CODE:

CUST P.O. NUMBER : 1294

DOT SHIPPING INFORMATION

NPCA - HMIS RATINGS

Petroleum Gases, Liquefied

HEALTH 1

FLAMMABILITY 4

REACTIVITY 0

2.1, Flammable Gas, UN1075

PERSONAL PROTECTION -

NON CORROSIVE

PERSONAL PROTECTION INFORMATION TO BE SUPPLIED BY USER

DCPC LOT NUMBER : 2023-39198-00\_DV-94#1

SOURCE : DV-94#1

WEIGHT LOADED : 16520 lb

SAMPLED BY : FB

ANALYST : FB

DELIVERY DATE : 05/23/2023 09:00 A

EXPIRATION DATE : 05-22-2023

| COMPONENT | WEIGHT% | MOLE%   | LIQ VOL%<br>(60 °F) |
|-----------|---------|---------|---------------------|
| ETHANE    | 0.0000  | 0.0000  | 0.0000              |
| PROPANE   | 99.8550 | 99.8900 | 99.8698             |
| ISOBUTANE | 0.1300  | 0.0987  | 0.1172              |
| N-BUTANE  | 0.0150  | 0.0114  | 0.0131              |

DENSITY AT 60 °F = 4.235 LB/GL  
 DENSITY AT 70 °F = 4.166 LB/GL  
 SPC GRAVITY AT 60 °F = 0.507 G/CC  
 CALC. PRES. AT 70 °F = 109.22 PSIG  
 CALC. PRES. AT 100 °F = 171.88 PSIG  
 ACT. PRES. AT 70 °F = 109.00 PSIG

MOISTURE CONTENT (PPMW) : .5  
 TOTAL SULPHUR (PPMW) : < 1  
 RESIDUE (PPMW) : < 5  
 BENZENE (PPMW) : < 1.0

APPEARANCE: Clear & Colorless  
 ODOR: Pass

PREPARED BY: 

DATE: 05-22-2023

\*\*\* SDS PREVIOUSLY PROVIDED \*\*\*

Pure Innovation with YOU in Mind.

**BTEX Analysis- Addendum**

Ship To: Global Rare Gases

Shipper's No: 2023-39198-00

**Plant:** Channahon  
**Product:** Propane, Instrument  
 Purity, 2.5  
**Sample ID:** DV-94 #1

**Manufacture Date:** 5/20/23  
**Customer Part No:**

**BTEX Analysis Report**

| Component<br>(Liquid Phase) | Results | Specifications | Method             |
|-----------------------------|---------|----------------|--------------------|
| Benzene                     | ND      | < 1.0 - ppmw   | Gas Chromatography |
| Ethylbenzene                | ND      | < 1.0 - ppmw   | Gas Chromatography |
| Toluene                     | ND      | < 1.0 - ppmw   | Gas Chromatography |
| Xylene (m,p,o)              | ND      | < 1.0 - ppmw   | Gas Chromatography |

**ND - Not Detected (Below Minimum Detection Limit, MDL)**

**MDL - < 0.5 ppm**



Prepared by

May 22, 2023