

PLANT: Channahon, IL

MFG DATE: 05-25-2023 09:10 AM

GLOBAL RARE GASES

2533 TRACY ROAD

NORTHWOOD, OH 43619

CERTIFICATE OF ANALYSIS

DCPC PRODUCT NAME: n-Butane, Instrument Purity, 2.5

CUST PRODUCT CODE:

CUST P.O. NUMBER : 1296

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 : 2023-39266-00_4076

SOURCE : 4076

WEIGHT LOADED : 38720 lb

SAMPLED BY : AC

ANALYST : AC

DELIVERY DATE : 5/26/23 @ 9:00AM

EXPIRATION DATE : 05-25-2033

COMPONENT	WEIGHT%	MOLE%	LIQ VOL% (60 °F)
ETHANE	0.0000	0.0000	0.0000
PROPANE	0.0000	0.0000	0.0000
ISOBUTANE	0.1450	0.1450	0.1501
N-BUTANE	99.7299	99.7542	99.7320
NEOPENTANE	0.1250	0.1007	0.1179
ISOPENTANE	0.0000	0.0000	0.0000
N-PENTANE	0.0000	0.0000	0.0000

DENSITY AT 60 °F = 4.864 LB/GL
 DENSITY AT 70 °F = 4.810 LB/GL
 SPC GRAVITY AT 60 °F = 0.583 G/CC
 CALC. PRES. AT 70 °F = 16.91 PSIG
 CALC. PRES. AT 100 °F = 37.51 PSIG
 ACT. PRES. AT 70 °F = 17.00 PSIG

MOISTURE CONTENT (PPMW) : .7
 TOTAL SULPHUR (PPMW) : < 1
 RESIDUE (PPMW) : < 5
 BENZENE (PPMW) : < 1.0

APPEARANCE: Clear & Colorless
 ODOR: Pass

*** SDS PREVIOUSLY PROVIDED ***

PREPARED BY:  DATE: 05-25-2023

DATE: 05-25-2023

Pure Innovation with YOU in Mind.

BTEX Analysis- Addendum

Ship To: Global Rare Gases

Shipper's No: 2023-39266-00

Plant: Channahon
Product: n-Butane, Instrument Purity, 2.5
Sample ID: 4076

Manufacture Date: 5/25/23
Customer Part No:

BTEX Analysis Report

Component (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



May 25, 2023

Prepared by