

PLANT: Channahon, IL

MFG DATE: 08-31-2023 10:40 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 : 1329

DOT SHIPPING INFORMATION

NPCA - HMIS RATINGS

Petroleum Gases, Liquefied

HEALTH 1

FLAMMABILITY 4

REACTIVITY 0

PERSONAL PROTECTION -

2.1, Flammable Gas, UN1075

NON CORROSIVE

PERSONAL PROTECTION INFORMATION TO BE SUPPLIED BY USER

DCPC LOT NUMBER : 2023-40989-00_DV94#2

SOURCE : DV94#2

WEIGHT LOADED : 17720 lb

SAMPLED BY : TM

ANALYST : TM

DELIVERY DATE : 09/01/2023 09:00 A

EXPIRATION DATE : 08-31-2033

COMPONENT	WEIGHT%	MOLE%	LIQ VOL% (60 °F)
ETHANE	0.0000	0.0000	0.0000
PROPANE	0.0000	0.0000	0.0000
ISOBUTANE	0.1723	0.1723	0.1783
N-BUTANE	99.7601	99.7731	99.7578
NEOPENTANE	0.0677	0.0545	0.0639
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 = 16.92 PSIG
 CALC. PRES. AT 100 °F = 37.53 PSIG
 ACT. PRES. AT 70 °F = 17.00 PSIG

MOISTURE CONTENT (PPMW) : .4
 TOTAL SULPHUR (PPMW) : < 1
 RESIDUE (PPMW) : < 5
 BENZENE (PPMW) : < 1.0

APPEARANCE: Clear & Colorless

ODOR: Pass

*** SDS PREVIOUSLY PROVIDED ***

Pure Innovation with YOU in Mind.



DATE: 08-31-2023

BTEX Analysis- Addendum

Ship To: Global Rare Gases

Shipper's No: 2023-40989-00

Plant: Channahon
Product: n-Butane, Instrument Purity, 2.5
Sample ID: DV94#2

Manufacture Date: 8/30/23
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

Prepared by

Jennifer Brown

August 31, 2023