

Gas Innovations
18005 E Hwy 225
La Porte, TX 77571
John Garcia

Certificate No.: RP22072505
Certificate Date: 07/25/2022
Purchase Order : 071522JG
Sales Order : 22412

Sample ID: 220715001-01
Description: n-Butane TK#4 BUT-071322-1-4-DV
Received: 07/15/2022
Sample No.: 220715001

	Result	Units	Method
Calculation			
n-Butane	99.781	Wt %	Calculation
GC-MS, General			
Diethanolamine	<0.001	Wt %	GC-MS
Oxygenates			
Methanol	<0.001	Wt %	GC-MS
Ethanol	<0.001	Wt %	GC-MS
Isopropanol	<0.001	Wt %	GC-MS
TCD, General			
Nitrogen	<0.001	Wt %	GC-TCD
Propane	0.005	Wt %	GC-TCD
Isobutane	0.214	Wt %	GC-TCD

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Certificate No.: RP22041803
Certificate Date: 04/18/2022
Purchase Order : 041222JG
Sales Order : 22233

Sample ID: 220412002-01
Description: n-Butane Sample #4
Received: 04/12/2022
Sample No.: 220412002

	Result	Units	Method
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Metals			
Sodium	<1	ppb wt	ICP-MS
Magnesium	<0.5	ppb wt	ICP-MS
Aluminum	<0.5	ppb wt	ICP-MS
Phosphorus	<1	ppb wt	ICP-MS
Potassium	<2	ppb wt	ICP-MS
Calcium	<2	ppb wt	ICP-MS
Vanadium	<0.1	ppb wt	ICP-MS
Chromium	<0.3	ppb wt	ICP-MS
Manganese	<0.1	ppb wt	ICP-MS
Iron	<0.5	ppb wt	ICP-MS
Cobalt	<0.1	ppb wt	ICP-MS
Nickel	<0.5	ppb wt	ICP-MS
Copper	<0.1	ppb wt	ICP-MS
Zinc	<0.1	ppb wt	ICP-MS
Gallium	<0.1	ppb wt	ICP-MS
Germanium	<0.1	ppb wt	ICP-MS
Arsenic	<0.4	ppb wt	ICP-MS
Selenium	<0.2	ppb wt	ICP-MS
Molybdenum	<0.1	ppb wt	ICP-MS
Silver	<0.2	ppb wt	ICP-MS
Cadmium	<0.1	ppb wt	ICP-MS
Tin	<0.1	ppb wt	ICP-MS
Cerium	<0.1	ppb wt	ICP-MS
Hafnium	<0.1	ppb wt	ICP-MS
Lead	<0.1	ppb wt	ICP-MS



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Certificate No.: RP22041803
Certificate Date: 04/18/2022
Purchase Order : 041222JG
Sales Order : 22233

Sample ID: 220412002-02
Description: n-Butane Sample #7
Received: 04/12/2022
Sample No.: 220412002

	Result	Units	Method
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Metals			
Sodium	<1	ppb wt	ICP-MS
Magnesium	<0.5	ppb wt	ICP-MS
Aluminum	<0.5	ppb wt	ICP-MS
Phosphorus	<1	ppb wt	ICP-MS
Potassium	<2	ppb wt	ICP-MS
Calcium	<2	ppb wt	ICP-MS
Vanadium	<0.1	ppb wt	ICP-MS
Chromium	<0.3	ppb wt	ICP-MS
Manganese	<0.1	ppb wt	ICP-MS
Iron	<0.5	ppb wt	ICP-MS
Cobalt	<0.1	ppb wt	ICP-MS
Nickel	<0.5	ppb wt	ICP-MS
Copper	<0.1	ppb wt	ICP-MS
Zinc	<0.1	ppb wt	ICP-MS
Gallium	<0.1	ppb wt	ICP-MS
Germanium	<0.1	ppb wt	ICP-MS
Arsenic	<0.4	ppb wt	ICP-MS
Selenium	<0.2	ppb wt	ICP-MS
Molybdenum	<0.1	ppb wt	ICP-MS
Silver	<0.2	ppb wt	ICP-MS
Cadmium	<0.1	ppb wt	ICP-MS
Tin	<0.1	ppb wt	ICP-MS
Cerium	<0.1	ppb wt	ICP-MS
Hafnium	<0.1	ppb wt	ICP-MS
Lead	<0.1	ppb wt	ICP-MS



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Certificate No.: RP22041801
Certificate Date: 04/18/2022
Purchase Order : 041222JG
Sales Order : 22233

Sample ID: 220412002-01
Description: n-Butane Sample #4
Received: 04/12/2022
Sample No.: 220412002

	Result	Units	Method
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Metals			
Magnesium	<0.5	ppb wt	ICP-MS
Potassium	<2	ppb wt	ICP-MS



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Certificate No.: RP22041801
Certificate Date: 04/18/2022
Purchase Order : 041222JG
Sales Order : 22233

Sample ID: 220412002-02
Description: n-Butane Sample #7
Received: 04/12/2022
Sample No.: 220412002

	Result	Units	Method
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Metals			
Magnesium	<0.5	ppb wt	ICP-MS
Potassium	<2	ppb wt	ICP-MS



Gas Innovations
18005 E Hwy 225
La Porte, TX 77571
Attn: Darwin Dingle

Certificate No.: RP21120905
Certificate Date: 12/09/2021
Purchase Order : 120621JG
Sales Order : 21636

Sample ID: 211207001-01
Description: n-Butane Tank 4
Received: 12/07/2021
Sample No.: 211207001

	Result	Units	Method
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BTEX			
Benzene	<0.05	ppm v	GC-MS
Toluene	<0.05	ppm v	GC-MS
Ethylbenzene	<0.05	ppm v	GC-MS
p-Xylene	<0.05	ppm v	GC-MS
m-Xylene	<0.05	ppm v	GC-MS
o-Xylene	<0.05	ppm v	GC-MS



Aubrey Russell

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La Porte, TX 77571
Attn: Darwin Dingle

Certificate No.: RP21120905
Certificate Date: 12/09/2021
Purchase Order : 120621JG
Sales Order : 21636

Sample ID: 211207001-02
Description: n-Butane Tank 7
Received: 12/07/2021
Sample No.: 211207001

	Result	Units	Method
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BTEX			
Benzene	<0.05	ppm v	GC-MS
Toluene	<0.05	ppm v	GC-MS
Ethylbenzene	<0.05	ppm v	GC-MS
p-Xylene	<0.05	ppm v	GC-MS
m-Xylene	<0.05	ppm v	GC-MS
o-Xylene	<0.05	ppm v	GC-MS



Aubrey Russell