

**OXYGEN- oxygen gas**  
**Messer LLC**

-----  
**Messer LLC - Oxygen USP Bulk Liquid**

Plant  
123 Messer St, Anytown, USA

Certificate of Analysis - Stall 1

Product: Oxygen USP  
Date: 10/27/2025  
Lot#: 5138-1-0590-102725-04  
Tare Weight: 40380 lbs.  
Gross Weight: 79000 lbs.  
Net Weight: 38620 lbs.  
Net Volume: 466.53 kscf

Batch #: AIT-80-4-102725-01  
Logon Time: 2025-10-27 13:07:43  
Analysis Finish: 2025-10-27 14:03:19  
Logoff Time: 2025-10-27 14:13:53

Final Analysis Results

Analyzer #

Test/Units

LOX1 Specs

Analysis Results

Limit of Detection

Organoleptic

Odor

None

None

AIT-80-4

% O<sub>2</sub>

≥ 99.50

99.82

\*\*\*\*\*

LAB

PPM THC

N/A

NT

0.10

LAB

PPM H<sub>2</sub>O

N/A

NT

0.01

N/A

% CO<sub>2</sub>

≤ 0.030

\*\*\*

N/A

% CO

≤ 0.001

\*\*\*

NT = Not Tested

\*\*\* = This product was manufactured by Air Liquefaction and testing is exempt under the USP compendium.

% O<sub>2</sub> Method Used: Paramagnetic Analyzer      Manufacturer/Model#: Servomex 1100

This analyzer has been validated by Messer as an acceptable alternative to the official USP for Oxygen Assay. Validation study documentation is maintained by Messer at the corporate office. LOX NDA: 205767, LOX NADA: 141365

This document contains an electronic signature.

Analyst

Date

Sample Results Obtained from Messer Validated Analyzers

10/27/2025

Quality Reviewer

Date

John Doe

10/27/2025

Should the material not be delivered to an USP customer, the material is "Not Approved for Human Drug Use"

LOX1

### Plant

123 Messer St, Anytown, USA

### Certificate of Analysis - Stall 1

Product: Oxygen USP

Date: 10/27/2025  
 Lot#: 5138-1-0590-102725-04  
 Tare Weight: 40380 lbs.  
 Gross Weight: 79000 lbs.  
 Net Weight: 38620 lbs.  
 Net Volume: 466.53 kscf

Batch # AIT-80-4-102725-01  
 Logon Time 2025-10-27 13:07:43  
 Analysis Finish 2025-10-27 14:03:19  
 Logoff Time 2025-10-27 14:13:53

#### Final Analysis Results

Analyzer #	Test/Units	LOX1 Specs	Analysis Results	Limit of Detection
Organoleptic	Odor	None	None	
AIT-80-4	% O2	>=99.50	99.82	*****
LAB	PPM THC	N/A	NT	0.10
LAB	PPM H2O	N/A	NT	0.01
N/A	% CO2	<=0.030	***	
N/A	%CO	<=0.001	***	

NT = Not Tested

\*\*\* = This product was manufactured by Air Liquefaction and testing is exempt under the USP compendium.

% O2 Method Used: Paramagnetic Analyzer

Manufacturer/Model#: Servomex 1100

This analyzer has been validated by Messer as an acceptable alternative to the official USP for Oxygen Assay. Validation study documentation is maintained by Messer at the corporate office. LOX NDA: 205767, LOX NADA: 141365

This document contains an electronic signature.

Analyst	Date:
Sample Results Obtained from Messer Validated Analyzers	10/27/2025
Quality Reviewer	Date:
John Doe	10/27/2025

LOX1

Should the material not be delivered to an USP customer, the material is "Not Approved for Human Drug Use"

Docum

## OXYGEN

oxygen gas

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:52438-011
Route of Administration	RESPIRATORY (INHALATION)		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
OXYGEN (UNII: S88TT14065) (OXYGEN - UNII:S88TT14065)	OXYGEN	995 mL in 1 L

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:52438-011-20	18144 L in 1 TANK; Type 0: Not a Combination Product	01/01/1960	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA205767	01/01/1960	

**Labeler** - Messer LLC (001368141)

**Registrant** - Messer LLC (001368141)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		002123321	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		003000197	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		004212362	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		019983468	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		026946218	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		041268947	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		042263707	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		079481211	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
------	---------	--------	---------------------

Messer LLC		081695020	manufacture(52438-011) , api manufacture(52438-011)
------------	--	-----------	---

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		092191712	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		093220150	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		101889988	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		102835006	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		108034669	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		147344667	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		192602431	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		791242337	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		799311001	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		809794592	manufacture(52438-011) , api manufacture(52438-011)

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		839692303	manufacture(52438-011) , api manufacture(52438-011)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Messer LLC		872699181	api manufacture(52438-011) , manufacture(52438-011)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Messer LLC		940070527	manufacture(52438-011) , api manufacture(52438-011)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Messer LLC		943812438	manufacture(52438-011) , api manufacture(52438-011)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Messer LLC		945417111	manufacture(52438-011) , api manufacture(52438-011)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Messer LLC		969312248	manufacture(52438-011) , api manufacture(52438-011)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Messer North America, Inc.		057695412	manufacture(52438-011) , api manufacture(52438-011)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Messer LLC		119239875	manufacture(52438-011) , api manufacture(52438-011)

Revised: 11/2025

Messer LLC