

Nitrous Oxide

Description

Formula:

Nitrogen Monoxide, Dinitrogen Synonyms:

Monoxide, Laughing Gas

Gas Data

Molecular Weight: 44.01

1.947 kg/m³ @ 21.1°C, 101.325 kPa 0.1215 lb/ft³ @ 70°F, 14.696 psia 0.5136 m³/kg @ 21.1°C, 101.325 kPa 8.230 ft³/lb @ 70°F, 14.696 psia Density: Specific Volume:

Shipping Information

CAS Registry Number: 10024-97-2 UN Number: ECCN Number: UN 1070 EAR99 DOT Proper Shipping Name: Nitrous Oxide DOT Classification: 2.2 (Nonflamm

2.2 (Nonflammable Gas) DOT Label: NON-FLAMMABLE GAS,

OXIDIZER

TC Shipping Name: TC Classification: TC Label: Nitrous Oxide, compressed 2.2, 5.1

NON-FLAMMABLE GAS,

NON-POISONOUS GAS, OXIDIZER

Cylinder Specifications									
Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight Ib kg					
1A	326	745	5,137	192	87				
1R	326	745	5,137	98	44				
2	326	745	5,137	94	43				
2R	326	745	5,137	63	29				
3	326	745	5,137	45	20				
3R	326	745	5,137	34	15				
LB	170	745	5,137	6	3				
QA	326	745	5,137	192	87				

Gas Grade Purity			Product Cylinder		Cor	ntent	Equipment	Model
Specifications			Code	Size	US	Metric	Recommendations	No.
Nitrous Oxide, Research	n Purity	99.999%	G2174504	QA	60 lb	27.22 kg	Dual Stage Reg.	Series 3810-326
Guaranteed Specifications							Single Stage Reg.	Series 3510-326
Ammonia	<	0.5 ppm					0 0 0	
Carbon Dioxide	<	2.0 ppm						
Carbon Monoxide	<	0.1 ppm						
Methane	<	0.1 ppm						
Nitrogen	<	2.0 ppm						
NOx	<	0.5 ppm						
Oxygen	<	2.0 ppm						
Water	<	2.0 ppm						
A Certificate of Analysis is	availabl	e on request i	at a nominal cha	arge. Caution: n	ot for human co	nsumption.		
Nitrous Oxide, Matheson Purity 99.997%		G1882104	QA	60 lb	27.22 kg	Dual Stage Reg.	Series 3810-326	
Guaranteed Specifications		•				<u> </u>	Single Stage Reg.	Series 3510-326
Carbon Dioxide	<	3 ppm					Gas Warmer	6284-326
Carbon Monoxide	<	0.5 ppm						
Methane	<	0.5 ppm						
Nitrogen	<	7 ppm						
NOx	<	1 ppm						
Oxygen	<	3 ppm						
Water	<	3 ppm						
A Certificate of Analysis is	availabl	e on request i	at a nominal cha	arge. Caution: N	lot for human c	onsumption.		
Nitrous Oxide, SFC Purity 99.995%		G2468118	1R	39 lb	17.69 kg	Dual Stage Reg.	Series 3120-326	
Guaranteed Specifications	3		G2468147	2R	21 lb	9.53 kg	Single Stage Reg.	Series 3530-320
Carbon Dioxide	<	2 ppm	G2468159	3R	8 lb	3.63 kg	Gas Warmer	6284-326
Water	<	2 ppm						
Methane	<	1 ppm						
Nitrogen	<	8 ppm						
Oxygen	<	2 ppm						
A Certificate of Analysis is	availabl	e on rêquest i	at a nominal cha	arge.				
Caution: Not for human co				-				



Nitrous Oxide (continued)

Gas Grade Purity Specifications			Product Code	Cylinder Size	Coi US	ntent Metric	Equipment Recommendations	Model No.
Nitrous Oxide, Ultra Hig Guaranteed Specifications Carbon Dioxide Carbon Monoxide Nitrogen Oxygen THC as CH, A lot analysis will be provide Caution: Not for human con	ded with	2 ppm 2 ppm 10 ppm 4 ppm 2 ppm	G1969101 G1969140 G1969150 G1969175 r. Please inquire	1A 2 3 LB	60 lb 20 lb 6 lb 0.5 lb	27.22 kg 9.07 kg 2.72 kg 227 gm	Dual Stage Reg. Single Stage Reg. LB Regulator Gas Warmer	Series 3120-326 Series 3530-326 Series 3550-170 6284-326
Nitrous Oxide,CP Grad			G1570101 G1570140 G1570150 G1570175 request. Cautio	1A 2 3 LB m: Not for huma	60 lb 20 lb 6 lb 0.5 lb an consumption	27.22 kg 9.07 kg 2.72 kg 227 gm	Dual Stage Reg. Single Stage Reg. LB Regulator Gas Warmer	Series 81-326 Series 18-326 Series 3320-170 6284-326

 Δ WARNING: This product can expose you to chemicals including Nitrous Oxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

 \triangle WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.