

## **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: Nitrous Oxide 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 Size         Valve Outlet CGA No.         Pressure psig @ 70°F         Pressure kPa @ 21.1°C         Approximate Ship Weight lb         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           OΔ         326         745         5,137         192         87	Cylinder Specifications									
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	,				Ship Weight					
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	1A	326	745	5,137	192	87				
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	1R	326	745	5,137	98	44				
3     326     745     5,137     45     20       3R     326     745     5,137     34     15       LB     170     745     5,137     6     3	2	326	745	5,137	94	43				
3R         326         745         5,137         34         15           LB         170         745         5,137         6         3	2R	326	745	5,137	63	29				
LB 170 745 5,137 6 3	3	326	745	5,137	45	20				
	3R	326	745	5,137	34	15				
OA 326 745 5137 192 87	LB	170	745	5,137	6	3				
21 320 743 3,137 172 07	QA	326	745	5,137	192	87				

Gas Grade Purity		Product	Cylinder	inder Content		Equipment	Model	Page	
Specifications			Code	Size	US	Metric	Recommendations	No.	No.
Nitrous Oxide, Research	n Purity	99.999%	G2174504	QA	60 lb	27.22 kg	Dual Stage Reg.	Series 3810-326	318
Guaranteed Specifications	S						Single Stage Reg.	Series 3510-326	312
Ammonia	<	0.5 ppm							
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	at a nominal cha	arge. Caution: n	ot for human co	nsumption.			
Nitrous Oxide, Matheso	n Purit	y 99.997%	G1882104	QA	60 lb	27.22 kg	Dual Stage Reg.	Series 3810-326	318
Guaranteed Specifications					0	Single Stage Reg.	Series 3510-326	312	
Carbon Dioxide	<	3 ppm					Gas Warmer	6284-326	435
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		at a nominal cha	arge. Caution: N	lot for human c	onsumption.			
Nitrous Oxide, SFC Pu	rity 99.	995%	G2468118	1R	39 lb	17.69 kg	Dual Stage Reg.	Series 3120-326	299
Guaranteed Specifications	s		G2468147	2R	21 lb	9.53 kg	Single Stage Reg.	Series 3530-326	312
Carbon Dioxide	<	2 ppm	G2468159	3R	8 lb	3.63 kg	Gas Warmer	6284-326	435
Water	<	2 ppm				<u> </u>			
Methane	<	1 ppm							
Nitrogen	<	8 ppm							
Oxygen	<	2 ppm							
A Certificate of Analysis is available on request at a nominal charge.									
Caution: Not for human co				_					



## Nitrous Oxide (continued)

Gas Grade Purity Specifications			Product Code	Cylinder Size	Coi US	ntent Metric	Equipment Recommendations	Model No.	Page No.
Nitrous Oxide, Ultra High Purity 99.99%  Guaranteed Specifications  Carbon Dioxide < 2 ppm Carbon Monoxide < 2 ppm Nitrogen < 10 ppm Oxygen < 4 ppm THC as CH <sub>4</sub> < 2 ppm A lot analysis will be provided with each cylinds Caution: Not for human consumption.			G1969101 G1969140 G1969150 G1969175	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	299 313 314 435
Nitrous Oxide,CP Gra  A Certificate of Conformati			G1570101 G1570140 G1570150 G1570175 request. Cautio	1A 2 3 LB m: Not for hum	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	293 292 302 435

∆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.