

PURE GASES

NITROGEN DIOXIDE NO₂

General Characteristics: A reddish brown, nonflammable and liquefied gas with a detectable odor.

Health Hazards: Highly toxic. Causes serious lung damage with a delayed effect.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
C.P. GRADE Min. Purity 99.5%	044	120 lbs	Stainless-steel high purity single-stage regulator, refer to page 144 Stainless-steel lecture bottle regulator, refer to page 149
	008	10 lbs	
	LB	0.5 lb	

TECHNICAL INFORMATION

* Supplied with full length eductor tubes

Molecular Weight	46.01	Dot Name	Dinitrogen Tetroxide Liquefied
Specific Volume	4.7CF/lb	UN No.	UN1067
Fire Potential	Highly Oxidizing	Dot Class	2.3
TLV-TWA	3 ppm (ACGIH 1991-1992)	Dot Label	Poison Gas and Oxidizer
CGA Valve	660	Cas Registry	10102-44-0
LB	180	Cylinder Pressure @ 70°F	0 psig

NITROGEN TRIFLUORIDE NF₃

– See Electronic Gases Section –

NITROUS OXIDE N₂O

General Characteristics: A colorless, nonflammable, odorless, and liquefied gas.

Health Hazards: A simple asphyxiant and an anesthetic, a mild oxidizer.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
ELECTRONIC GRADE Min. Purity 99.997%	- See Electronic Gases Section -		
ULTRA HIGH PURITY Min. Purity 99.99%	200	60 lbs	Double-stage high purity regulator, refer to page 143 High purity lecture bottle regulator, refer to page 148
	80	20 lbs	
C.P. GRADE Min. Purity 99.6%	044	60 lbs	<ul style="list-style-type: none"> For high flow application, use N₂O heater or special design regulator, please ask our representative.
	016	20 lbs	
	LB	0.5 lb	
NOT FOR DRUG USE. Recommended for use with Atomic Absorbtion Spectrophoto Meters.			

TECHNICAL INFORMATION

Molecular Weight	44.01	Dot Name	Nitrous Oxide, Compressed
Specific Volume	8.7CF/lb	UN No.	UN1070
Fire Potential	Oxidizer	Dot Class	2.2
TLV-TWA	50 ppm (ACGIH 1991-1992)	Dot Label	Nonflammable Gas
CGA Valve	326	Cas Registry	10024-97-2
LB	180	Cylinder Pressure @70°F	745 psig

OCTAFLUOROCYCLOBUTANE C₄F₈

– See Halocarbon 318 in Electronic Gases Section –