

PURE GASES

NITROGEN DIOXIDE NO₂

General Characteristics: A reddish brown, non-flammable 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. Min. Purity 99.5%	¹ 044	54.5 kg	Stainless-steel high purity single-stage regulator, refer to page 142
	¹ 016	10.0 kg	
	010	5.0 kg	Stainless-steel lecture bottle regulator, refer to page 147
	LB	227 g	

TECHNICAL INFORMATION

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

1. Available with full length eductor tube and pressurized with Nitrogen

NITROGEN TRIFLUORIDE NF₃

- See Electronic Gas Section page 98 -

NITROUS OXIDE N₂O

General Characteristics: A colorless, non-flammable, odorless and liquefied gas.

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

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
INSTRUMENTAL Min. Purity 99.6% NO/NO ₂ < 1 ppm, CO < 5 ppm, CO ₂ < 100 ppm, H ₂ O < 10 ppm	044	27.2 kg	Double-stage high purity regulator, refer to page 134
	016	9.1 kg	High purity lecture bottle regulator, refer to page 146
	LB	227 g	
<p style="text-align: center;">NOT FOR DRUG USE. Recommended for use with Atomic Absorption Spectrophotometers.</p>			For high flow application, special laminated aluminum regulator required, please ask our representative

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.....	Non-flammable Gas
CGA Valve.....	326	Cas Registry.....	10024-97-2
LB.....	180	Cylinder Pressure @70°F.....	745 psig

For VLSI (5N5) and ELECTRONIC (5N) grade nitrous oxide, see Electronic Gas section page 99.

OCTAFLUOROCYCLOBUTANE C₄F₈

- See Electronic Gas Section page 89 -