NITROUS OXIDE (N2O)

Synonyms: Nitrogen oxide; Nitrogen monoxide



Gas Description

Nitrous Oxide is a colourless, non-toxic but narcotic, non-flammable but oxidizing, non-corrosive gas with a slightly sweetish odour and taste. It has a gas density at STP 1.872 kg/m³.

This product can be supplied in cylinders, or liquefied gas tank.

Typical applications:

Inhalation anesthetic and analgesic

Propellant for liquid foods, cosmetics, pharmaceuticals,

household and industrial products

Leak detection and tracing

Oxidizer for atomic absorption analysis booster for internal combustion motors

Transport Regulations:

UN Number: 1070

Shipping Name: NITROUS OXIDE

Class: 2.2 (5.1) Non-Flammable, non-toxic

(oxidizers)

CAS Number: 10024-97-2

Hazchem: 2P

Click here for MSDS

Click here for more information

Physical Properties

Chemical symbol: N₂O Molecular weight: 44.01

Specific gravity (Air=1): 1.530 Specific volume (m³/kg): 0.54 Critical temperature: 37°C Boiling point: -85.5°C Melting Point: -91°C

Critical pressure (bar): 72.69

Major hazards: Combustion and Suffocation

Toxicity: None Established Flammability Range: Oxidizer

Odour : Sweet

Click here for more information

Application		
INDUSTRY	APPLICATION	
Pharmaceuticals	Nitrous oxide is used as gas propellant for aerosols packaging.	
Food and Beverage	Nitrous oxide is used as gas propellant for aerosols packaging.	
Electronics	Can be the oxygen source for chemical vapor deposition of silicon oxynitride/silicon dioxide.	
Laboratories and Analysis	Nitrous oxide is a comburant for the flame in atomic absorption spectrophotometry. N ₂ O is used in calibration gas mixtures.	
	Click here for more information	



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Nitrous Oxide : Inst	trument Grade	MIn Purity 99.0%				
Gas	Cylinder informat	ion				
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m³)		
	G	AS 2473 TYPE 30	5,100	16.6		
Recommended Equipment						
Single stage, chrome plated brass body regulator with a stainless steel diaphragm.						
NOTE: Not for medical use.						

For further information *Contact* the specialty gases representative in your region.