

NITROUS OXIDE 4.8

PROPERTIES

PHYSICAL & CHEMICAL



Molar mass: 44.013 g/mol
 Melting point: -91°C
 Boiling point (1.013 bar): -88.5°C
 Density of the gas phase (1.013 bar and 15°C): 1.872 kg/ma
 Density of the liquid phase (1.013 bar at boiling point): 1.2228 kg/l
 Gas density (1.013 bar at boiling point): 3.16 kg/ma
 Latent heat of fusion (1.013 bar at triple point): 148.53 kJ/kg
 Latent heat of vaporization (at 1.013 bar boiling point): 376.14 kJ/kg
 Critical temperature: 36.4°C
 Critical pressure: 72.45bar
 Compressibility factor (Z) (1.013 bar and 15°C): 0.9939



**OPEN
24/7**



APPLICATIONS :

The main applications or activities requiring Nitrous Oxide SAA are: Aerosol propellant, air quality monitoring, analytical chemistry, Atomic Adsorption Spectrometry (AAS), mixtures of calibration gas, combustion oxidation, electronics and semiconductors, emissions control, environmental monitoring, flame photometry, instrument calibration and calibration, laboratory and process instrumentation, aerosol propellant

TECHNICAL INFORMATION

Purity :	Impurities :				
N2O	CO + CO ₂	N ₂	H ₂ O	O ₂	CnHm
≥ 99.998 %	≤ 6 ppm	≤ 20 ppm	≤ 5 ppm	≤ 10 ppm	≤ 1 ppm

Conditioning :

GN2O	LN2O
B50	Cryogenic Mobil Tank