

NITRIC OXIDE (NO)

Synonyms : Nitrogen oxide; Dinitrogen monoxide; Dinitrogen oxide;
Laughing gas; Nitrogen monoxide



Gas Description

Nitric Oxide is a colourless, slightly toxic, non-flammable oxidizer gas with a gas density at STP 1.27 kg/m³. Nitric Oxide reacts with Oxygen to form NO₂.

Typical applications :

Rayon bleaching
Stabilizer for propylene and methyl ether
Reactivation of catalysts
Synthesis intermediate for Nitric acid and Nitrosyl carbonyls
Semi-conductor industry for silicon oxynitride deposits
Preparation of mixtures for air pollution and medical use

Transport Regulations :

UN Number : 1660
Shipping Name : NITRIC OXIDE,
COMPRESSED
Class : 2.3 (5.1)(8) Toxic gases (oxidizers)
CAS Number : 10102-43-9
Hazchem : NDA
[Click here](#) for MSDS
[Click here](#) for more information

Physical Properties

Chemical symbol : NO
Molecular weight : 30.006
Specific gravity (Air=1) : 1.04
Specific volume (m³/kg) : 0.805
Critical temperature : -93°C
Boiling point : -151.8°C

Melting Point : -163.6°C
Critical pressure (bar) : 64.85
Major hazards : Inhalation and Reactivity
Toxicity : TWA 25ppm STEL
Flammability Range : Non-Flammable
Odour : Slightly irritating
[Click here](#) for more information

Application

INDUSTRY

Healthcare

Laboratories and Analysis

APPLICATION

A mixture of nitric oxide and nitrogen is used to treat pulmonary arterial hypertension.
Calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.

[Click here](#) for more information

Nitric Oxide

Gas

Typical impurities
(ppm molar)

Cylinder information

Cylinder Size

Valve Connection

Pressure (kPa)

Contents (m³)

Available Upon Request
Call For Supply Information

Recommended Equipment

For further information [Contact](#) the specialty gases representative in your region.