

NITROGEN DIOXIDE (NO₂)



Gas Description

Nitrogen Dioxide is a redish coloured gas with an irritating odour. It is a strong oxidizer and it becomes corrosive when wet. Nitrogen Dioxide has a gas density at STP 3.45 kg/m³.

Typical applications :

Oxidizing and nitrating agent
Catalyst polymerization inhibitor
Oxidizer in rocket propulsion
Preperation of mixtures for combustion control

Transport Regulations :

UN Number : 1067
Shipping Name : NITROGEN DIOXIDE
Class : 2.3 (5.1) (8) Toxic (oxidizers)
(corrosive)
CAS Number : 10102-44-0
Hazchem : 2PE
[Click here](#) for MSDS
[Click here](#) for more information

Physical Properties

Chemical symbol : NO₂
Molecular weight : 46.01
Specific gravity (Air=1) : 1.58
Specific volume (m³/kg) : 0.29
Critical temperature : 158°C
Boiling point : 21.1°C

Melting Point : -11.2°C
Critical pressure (bar) : 101.38
Major hazards : Inhalation and Reactivity
Toxicity : TWA 3ppm STEL 5ppm
Flammability Range : Highly Oxidizing
Odour : Slightly Irritating
[Click here](#) for more information

Application

INDUSTRY

Chemicals

Space and Aeronautics

Laboratories and Analysis

APPLICATION

Nitrogen dioxide is a strong nitrating or oxidizing agent in organic synthesis.

Nitrogen dioxide could be used as an oxidizer for rocket fuel.

Nitric dioxide is used in calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.

[Click here](#) for more information

NITROGEN DIOXIDE (NO₂)



Nitrogen Dioxide

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)

Available Upon Request
Call For Supply Information

Recommended Equipment

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