

# Nitrous oxide UHP



laughing gas

## Marking

CAS

Characterization acc. ADR

Cylinder Marking

10024-97-2  
UN 1070 NITROUS OXIDE, 2.2  
(5.1), (C/E)



Shoulder color: blue

## Essential properties

liquified gas, heavier than air, colorless, oxidizing, narcotic

## Symbols of risks



## Physical Properties

molecular weight	44,013 kg/kmol
gas density at 0 °C and 1,013 bar	1,9781 kg/m <sup>3</sup>
density ratio to air	1,5299
vapour pressure at 20 °C	50,599 bar

For additional safety information see safety data sheet \*-N2O-093A

## Valves / Manifolds

Valve connection

acc. to national regulations

Recommended Manifolds

Spectrolab FM 51/FM 52exact  
Spectrochem FE 51/FE 52exact



Specification / receptacles		Nitrous oxide UHP	
<b>Composition</b>			
N <sub>2</sub> O	≥	99.999	Vol.-%
<b>Impurities</b>			
CO <sub>2</sub>	≤	1	ppmv
CO	≤	1	ppmv
N <sub>2</sub>	≤	5	ppmv
NO <sub>2</sub>	≤	1	ppmv
NO	≤	1	ppmv
O <sub>2</sub> + Ar	≤	1	ppmv
H <sub>2</sub> O	≤	1	ppmv

## Remarks

Applications:

UHP: oxidizing and etching gas in semiconductor industries