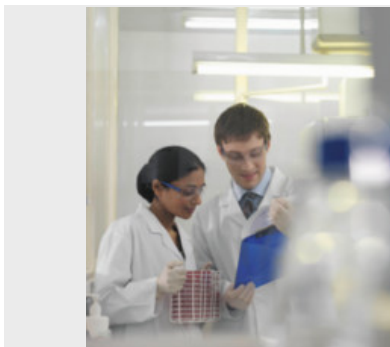


NITROUS OXIDE 5.0 / N₂O



Air Liquide's Gas Encyclopedia - Pages: 1053-1060

Applications

AA Spectroscopy
Electronic Component / Semiconductor manufacturing
Research

Transport information

Compressed gas cylinders

Proper shipping name	Nitrous oxide
UN-Nr	1070
ADR/RID	Class 2
	Classification code 2 O



Safety Data Sheets

Compressed gas : SDS-093A-CLP

Access: [https://www.msds-al.co.uk/assets/file_assets/SDS-093A_CLP_Nitrous_oxide\(10024-97-2\).pdf](https://www.msds-al.co.uk/assets/file_assets/SDS-093A_CLP_Nitrous_oxide(10024-97-2).pdf)

Physical information

Molecular weight	44,01 g/mol
Relative density:	
Relative density, gas	1,53 (air=1)
Relative density, liquid	1,2 (water=1)
Relative density, liquefied Gas	1,2 (water=1)
Colour	Colorless
Odor	Sweet
CAS number	10024-97-2

Properties

Hazards identification: May cause or intensify fire; oxidizer. Contains gas under pressure; may explode under the effect of heat. Asphyxiant at high concentration.

Flammability range: Oxidising



Cylinder equipment

Valve fittings

DIN 477 No 11

Shoulder colour:

Blue (RAL 5010)



Product Specifications

Purity (% Vol. abs) N ₂ O	Impurities (ppm)		Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,999 %	H ₂ O	< 1	Bundle	50L	50,6 bar	37,5 kg	P1729L50R0A001
	N ₂	< 5		V12	< 50 bar	450 kg	P1729V12R0A001
	CO	< 1					
	CO ₂	< 1					
	CH ₄	< 0,1					
	O ₂ +Ar	< 1					
	NO	< 1					
	NO ₂	< 1					
	NH ₃	< 1					

Additional information

Additional impurities :

NO/NO₂ ≤ 2,

O₂+Ar ≤ 1 ,

CH₄ ≤ 0.1,

NH₃ ≤ 1

Storability: 60 months

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