

# ALPHAGAZ 1 NITROGEN

N<sub>2</sub>

Air Liquide's Gas Encyclopedia – Pages: 1019 - 1052



**ALPHAGAZ**, the simple solution to enhance your analytical performance

**ALPHAGAZ 1**, the commitment to quality for % to ppm analysis

## ● Applications

- Carrier gas (GC)
- Instrumentation gas (LCMS...)
- Purge & Zero gas
- Cryogenic fluid (liquid N<sub>2</sub>)

## ● Transport information

### Compressed gas

- |                      |                         |
|----------------------|-------------------------|
| Proper shipping name | Nitrogen, compressed    |
| UN Nr                | 1066                    |
| ADR/RID              | Class 2                 |
|                      | Classification Code 1 A |



## ● Safety Data Sheets

Access: [www.airliquide.no](http://www.airliquide.no)

## ● Physical information

- Molecular weight . . . . . 28.01 g/mol
- Relative density, gas . . . . . 0.97 (air=1)
- Relative density, liquid . . . . . 0.8 (water=1)
- CAS number . . . . . 7727-37-9

## ● Properties

- Hazards identification: in high concentrations may cause asphyxiation
- Flammability range: non flammable
- Personal protection: ensure adequate ventilation

## ● Cylinder equipment

- Valve fittings :  
W 24.32 x 1/14", right, external thread, DIN 10  
SMARTOP: W 24.32 x 1/14", right, external thread, DIN 10
- Shoulder colour: black (RAL 9005)



## ● Product Specifications

Global purity (% mol)	Impurities (ppm-mol)	Supply mode	Packaging size	Pressure (bar)	Capacity (m <sup>3</sup> )	Product reference
N <sub>2</sub>						
≥ 99.999	H <sub>2</sub> O ≤ 3	Cylinder	S10	200	1.9	P0271S10R2A001
	O <sub>2</sub> ≤ 2	Cylinder	M20 Smartop	200	3.9	P0271M20S2A001
	C <sub>n</sub> H <sub>m</sub> ≤ 0.5	Cylinder	L50 Smartop	200	9.7	P0271L50S2A001
		Bundle	H10	200	97.1	P0271H10R2A001
		Bundle	V12	200	116.5	P0271V12R2A001
		LGC	R18		180 liter	P0271R18RMA001

Product recommended for analysis from % to ppm  
Shelf life: 60 months

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