

# ALPHAGAZ™ 1 NITROGEN / N<sub>2</sub>



*ALPHAGAZ™, the simple solution to enhance your analytical performance*  
*ALPHAGAZ™ 1, the commitment to quality for % to ppm analysis*

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

## Applications

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

## Transport information

### Compressed gases

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

### Refrigerated Gases

Proper shipping name	Nitrogen, refrigerated liquid
UN-Nr	1977
ADR/RID	Class 2
	Classification code 3A



## Safety Data Sheets

Compressed gas : N° EIGA089A  
 Access: <https://be.airliquide.com/>  
 Refrigerated gas : N° EIGA089B  
 Access: <https://be.airliquide.com/>

## Physical information

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

## Properties

**Hazards identification:** In high concentrations may cause asphyxiation

**Flammability range:** Non-flammable

**Personal protection:** Ensure adequate ventilation. For full and more detailed information, please consult the Material Safety Data Sheet (MSDS).



## Cylinder equipment

### Valve fittings

Cylinder: B4 - IS 21.7 x 1.814 right-hand male  
 Bundle: WW 1 1/8 right-hand male

### Shoulder colour:

Black (RAL 9005)



## Product Specifications

Global purity (% mol)  N <sub>2</sub>	Impurities (ppm-mol)		Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,999 %	H <sub>2</sub> O	≤ 2 ppm	Cylinder	10L SMARTOP	200 bar	2 m <sup>3</sup>	P0271S10S2A001
	O <sub>2</sub>	≤ 2 ppm	Cylinder	50L SMARTOP	200 bar	10 m <sup>3</sup>	P0271L50S2A001
	CnHm	≤ 0,5 ppm	Bundle	V12*50L	200 bar	120 m <sup>3</sup>	P0271V12R2A001
	CO	≤ 0,5 ppm	Liquid	-			P4200RG
	CO <sub>2</sub>	≤ 0,5 ppm					

## Additional information

Product recommended for analysis from % to ppm

Shelf life: 60 months

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