

# ALIGAL™ 1 / N<sub>2</sub>



*Buy nitrogen (N<sub>2</sub>) food grade gas quality for longer shelf life of dry food products (coffee, nuts, rice)*

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

## Applications

Food grade gases for modified atmosphere packaging, beverages, other food processing applications

## 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-ALG  
Access: <https://be.airliquide.com/>  
Refrigerated gas : N° EIGA089B-ALG  
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:** Inert; 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 (% Vol. abs)	Impurities		Supply mode	Packaging size	Pressure	Capacity	Product reference
N <sub>2</sub>							
≥ 99,995 %	H <sub>2</sub> O (5 bar)	≤ 50 ppm v/v	Cylinder	50L	200 bar	10 m <sup>3</sup>	I4020L50R2A001
	O <sub>2</sub>	≤ 20 ppm v/v	Bundle	V12*50L	200 bar	120 m <sup>3</sup>	I4020V12R2A001
	CO	≤ 10 ppm v/v	Liquid	-			I4130RG
	NO/NO <sub>x</sub>	≤ 10 ppm v/v					
	CnHm	≤ 30 ppm v/v					

## Additional information

Specifications in accordance with Regulation (EU) 231/2012

Product compliant with:

- E941 specifications
- Food safety compliance: Food safety management system FSMS including HACCP methodology, ISO22000 and traceability through batch lot number
- Food gases cannot be considered free of particles. Despite preventive measures taken to limit the contamination level (selection of materials, filtration, purging procedures etc.) a continuous warranty of particles level cannot be ensured. Based on intended use, the end user is responsible to conduct a risk assessment of their complete system (gas distribution piping network included). Where there is a requirement for the particle contamination of the gas to be controlled, appropriate filters can be installed at the point of use.
- Cylinder compliant with : FDA and EC 1935:2004

Minimum shelf life as stated on the batch label: 60 months

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