

## ALIGAL™ 13



*ALIGAL™, the Air Liquide food grade solution*

### Applications

Food grade gases for modified atmosphere storage and packaging (food, ingredients, new trends - vegetarian food), winemaking applications and beverages

### Transport information

#### Compressed gas cylinders

Proper shipping name	odorless, foul smell product often added
UN-Nr	1956
ADR/RID	Class 2
	Classification code 1A



### Safety Data Sheets

Compressed gas : N° 300-15-013ALBNL-ALG

Access: <https://be.airliquide.com/>

### Physical information

Molecular weight	Mix
Relative density:	
Relative density, gas	Heavier than air
Colour	Colorless
Odor	Odorless

### Properties

**Hazards identification:** Asphyxiation in high concentrations and numbing

**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:

Bright green (RAL 6018)



## Product Specifications

Components (% Vol. abs)			Impurities (ppm v/v)		Supply mode	Packaging size	Pressure	Capacity	Product reference
CO <sub>2</sub>	30 %	± 3%	H <sub>2</sub> O (5 bar)	≤ 50	Cylinder	20L	200 bar	4,6 m <sup>3</sup>	I4650M20R2A001
N <sub>2</sub>	Balance		O <sub>2</sub>	≤ 20	Cylinder	50L	200 bar	11,4 m <sup>3</sup>	I4650L50R2A001
			CO	≤ 10	Bundle	V12*50L	200 bar	136,8 m <sup>3</sup>	I4650V12R2A001
			NO/NO <sub>2</sub>	≤ 10					
			CnHm	≤ 30					
			Total sulphur (S)	≤ 0,5 (*)					
			Oil	≤ 5 ppm w/w (*)					

## Additional information

Specifications pure gases in accordance with Regulation (EU) 231/2012

Product compliant with:

- E290 specifications (carbon dioxide)
- E941 specifications (nitrogen) Food safety compliance:
- Food safety management system FSMS including HACCP methodology, ISO22000, FSSC 22000 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

Liquid CO<sub>2</sub> product used for cylinders and bundles filling is compliant with ISBT\* specifications.

(\*) ISBT = International Society of Beverage Technologists

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

## Disclaimer

L'AIR LIQUIDE S.A. and/or its affiliates ("AIR LIQUIDE") are not responsible for the use or consequences of use of the information contained in this Product sheet. AIR LIQUIDE does not hold itself out as recommending the use of the information contained herein or reliance thereon in any way, makes no warranties regarding the information contained in this document and assumes no liability or responsibility in connection with the information or suggestions contained herein. AIR LIQUIDE makes no representations or warranties regarding the completeness of this document and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR USE OR PURPOSE. The information contained in this product sheet is based on the technical information and experience currently available to AIR LIQUIDE. This document should not be confused with regulations (national or European), insurance requirements or codes. Moreover it should not be assumed that every acceptable local grade, test or safety procedure or method, precaution, equipment or device is contained herein, nor that abnormal or unusual circumstances may not warrant or suggest further requirements or additional procedures. It is up to users of this document to ensure that they have the latest edition. AIR LIQUIDE may, at its sole discretion, add, delete or change some or all of the information contained in this Product sheet. It is strictly forbidden to copy or reproduce some or all parts of this Product sheet without the written authorisation of AIR LIQUIDE. AIR LIQUIDE owns, reserves and retains all proprietary rights, including copyright, to the present Product sheet. This Product sheet and the photographs and images contained herein shall not be copied or reproduced in any way, sold, loaned, transferred or otherwise distributed to others, used for any purpose or in any manner detrimental to the interest of AIR LIQUIDE. The trademarks, service marks, trade names, logos or other indications of origin displayed in this Product sheet are registered and unregistered trademarks of AIR LIQUIDE or a third party from whom AIR LIQUIDE has obtained the right to use them in this Product sheet. Use of any copyright materials and/or trademarks is subject to the written approval of AIR LIQUIDE on a separate permission form.