

# ALIGAL™ 3 / O<sub>2</sub>



*ALIGAL™, the Air Liquide food grade solution*

Air Liquide's Gas Encyclopedia - Pages: 1079 - 1120

## Applications

Food grade gas for preserving quality and shelf life during production, packaging of ingredients (ex. ready meals)

## Transport information

### Compressed gases

Proper shipping name	Oxygen, compressed
UN-Nr	1072
ADR/RID	Class 2
	Classification code 1 O

### Refrigerated Gases

Proper shipping name	Oxygen, refrigerated liquid
UN-Nr	1073
ADR/RID	Class 2
	Classification code 3 O



## Safety Data Sheets

Compressed gas : N° EIGA097A-ALG  
 Access: <https://be.airliquide.com/>  
 Liquefied gas : N° EIGA097B-ALG  
 Access: <https://be.airliquide.com/>

## Physical information

Molecular weight	32 g/mol
Relative density:	
Relative density, gas	1.1 (air=1)
Relative density, liquid	1.1 (water=1)
Colour	Colorless
Odor	Odorless
CAS number	7782-44-7

## Properties

**Hazards identification:** May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated.

**Flammability range:** Oxidant

**Personal protection:** Avoid O<sub>2</sub> rich (>21%) atmospheres. For full and more detailed information, please consult the Material Safety Data Sheet (MSDS).



## Cylinder equipment

### Valve fittings

Cylinder: A1 - IS 22.9 x 1.814 right-hand female  
 Bundle: IS 33 \* 2.50 right-hand male

### Shoulder colour:

White (RAL 9010)



## Product Specifications

Global purity (% Vol. abs) O <sub>2</sub>	Impurities (ppm v/v)	Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,5 %	H <sub>2</sub> O (5 bar) ≤ 50	Cylinder	50L	200 bar	10,6 m <sup>3</sup>	I1010L50R2A001
	CO ≤ 10	Bundle	V12*50L	200 bar	127 m <sup>3</sup>	I1010V12R2A001
	CO <sub>2</sub> ≤ 300	Liquid	-			I1110RG
	CnHm ≤ 100					
	No odor					

## Additional information

Specifications in accordance with Regulation (EU) 231/2012

Product compliant with:

- E948 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

## 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.