

ALIGAL™ 2 / CO₂



ALIGAL™, the Air Liquide food grade solution

Air Liquide's Gas Encyclopedia - Pages: 333 - 368

Applications

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

Transport information

Liquified Gases

Proper shipping name	Carbon Dioxide
UN-Nr	1013
ADR/RID	Class 2
	Classification code 2A

Refrigerated Gases

Proper shipping name	Carbon Dioxide, refrigerated liquid
UN-Nr	2187
ADR/RID	Class 2
	Classification code 3A



Safety Data Sheets

Liquefied gas : N° EIGA018A-ALG
 Access: <https://be.airliquide.com/>
 Liquefied gas : N° EIGA018B-ALG
 Access: <https://be.airliquide.com/>

Physical information

Molecular weight	44,01 g/mol
Relative density:	
Relative density, gas	1.52 (air=1)
Relative density, liquefied Gas	0.82 (water=1)
Relative density, refrigerated Gas	1.03 (water=1)
Colour	Colorless
CAS number	124-38-9

Properties

Hazards identification: In high concentrations may cause asphyxiation

Flammability range: Non-flammable

Personal protection: Ensure adequate ventilation



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:

Grey (RAL 7037)



Product Specifications

Global purity (% Vol. abs) CO ₂	Impurities (ppm v/v)		Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,9 Vol. %	H ₂ O (5 bar)	≤ 50 ppm v/v	Cylinder	13L	49.5 bar	10 kg	I5110S13R0A001
	O ₂	≤ 30 ppm v/v	Cylinder	50L	49.5 bar	37 kg	I5110L50R0A001
	CO	≤ 10 ppm v/v	Bundle	V12*50L	49.5 bar	360 kg	I5110V12R0A001
	NO/NO ₂	≤ 10 ppm v/v	Liquid	-	< 99 bar		I5110RG
	CnHm	≤ 30 ppm v/v					
	Nonvolatile organic constituents	≤ 5 ppm w/w					
	Total sulphur (S)	≤ 0,5 ppm v/v					

Additional information

Product compliant with:

- E290 specifications(carbon dioxide)
- 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 & EC 1935:2004

specifications in accordance with Regulation (EU) 231/2012

Liquid CO₂ 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

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