

# PHARGALIS™ 2 / CO<sub>2</sub>



*PHARGALIS™ : Air Liquide's global solution for the pharmaceutical industry*

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

## Applications

Pharmaceutical gases for

- pH regulation in liquid API and drug production
- Controlled atmosphere in small and large scale biomanufacturing
- Cell culture

## 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-PHA  
 Access: <https://be.airliquide.com/>  
 Refrigerated gas : N° EIGA018B-PHA  
 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
Odor	Odorless
CAS number	124-38-9

## Properties

**Hazards identification:** Contains gas under pressure; may explode under the effect of heat. Asphyxiant in high concentrations.

**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:

Grey (RAL 7037)



## Product Specifications

Global purity (% Vol. abs)  CO <sub>2</sub>	Impurities (ppm v/v)	Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,5 %	H <sub>2</sub> O (5 bar) ≤ 67	Cylinder	50L	49.5 bar	35 kg	I5120L50R0A001
	CO ≤ 5	Bundle	V12*50L	49.5 bar	400 kg	I5120V12R0A001
	NO / NO <sub>2</sub> ≤ 2	Liquid	-			I5115RG
	Total sulphur (S) ≤ 1					
	NH <sub>3</sub> ≤ 25					

## Additional information

This product complies with the three major pharmacopoeias for Carbone dioxide (Ph-EU, Ph-EU low oxygen, USP-NF and JP-Ph). The products are traceable and delivered with certificates of analysis and conformity. This product is manufactured, controlled and distributed in compliance with Good Manufacturing Practises (GMP) and Good Distribution Practises (GDP) for pharmaceutical Excipients (joint IPEC-PQG) Certified Excipient.

Stability: 36 months

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