

CARBON DIOXIDE / CO₂



Air Liquide is Europe's leading supplier of carbon dioxide and operates more than twenty purification and liquefaction facilities, enabling satisfaction of all customers needs

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

Applications

Chemical synthesis
Cryogenic fluid
Inerting agent
Protective atmosphere (welding,...)
Acidification agent

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 |
| UN-Nr | 1013 |
| ADR/RID | Class 2 |
| | Classification code 3A |



Safety Data Sheets

Liquefied gas : N° EIGA018A
Access: <https://be.airliquide.com/>
Refrigerated gas : N° EIGA018B
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: Not toxic, but effect on heart rhythm and respiratory rate can appear at 8-10% (or more) 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 ₂ | Impurities (ppm v/v) | Supply mode | Packaging size | Pressure | Capacity | Product reference |
|--|--------------------------------|-------------|----------------|----------|----------|-------------------|
| ≥ 99,7 % | H ₂ O (5 bar) ≤ 200 | Cylinder | 13L | 49.5 bar | 10 kg | I5100S13R0A001 |
| | | Cylinder | 13L DIP TUBE | 49.5 bar | 10 kg | I5100S13T0A001 |
| | | Cylinder | 27L | 49.5 bar | 20 kg | I5100L27R0A001 |
| | | Cylinder | 27L DIP TUBE | 49.5 bar | 20 kg | I5100L27T0A001 |
| | | Cylinder | 50L | 49.5 bar | 37 kg | I5100L50R0A001 |
| | | Cylinder | 50L DIP TUBE | 49,5 bar | 37 kg | I5100L50T0A001 |
| | | Bundle | V12*50L | 49.5 bar | 360 kg | I5100V12R0A001 |
| | | Bundle | V12*50L | 49.5 bar | 360 kg | I5100V12T0A001 |
| | | Liquid | - | | | I5100RG |

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