

Medical Carbon dioxide

PROPERTIES

PHYSICAL & CHEMICAL



- Molar mass: 44.01 g/mol
- Boiling point (sublimation): -78.5°C
- Density of the gas phase (1.013 bar and 15°C): 1.874 kg/m³
- Gas density (1.013 bar at the sublimation point): 2.814 kg/m³
- Latent heat of fusion (1.013 bar at triple point): 196.108 kJ/kg
- Latent heat of vaporization (at 1.013 bar boiling point): 571.08 kJ/kg
- Critical temperature: 31°C
- Critical pressure: 73.825 bar
- Compressibility factor (Z): 0.9942
- Concentration in air: 0.03% vol.



**OPEN
24/7**



APPLICATIONS :

- Medical carbon dioxide is used as an insufflation gas and cooling agent.
- It can be used as an insufflation gas for minimally invasive surgery (laparoscopy, endoscopy and arthroscopy) to expand and stabilize cavities for better visibility of the surgical field.
- It is also used as a freezing agent in cryosurgery. This involves destroying cells by necrosis and cryodestruction.
- Used in the liquid phase, it allows temperatures of up to -76° C to be obtained, for cryotherapy or local analgesia by external application to the surface of the skin.

TECHNICAL INFORMATION

Purity :	Impurities :			
CO ₂	CO	ST	H ₂ O	NO _x
≥ 99.5 %	≤ 5 ppm	≤ 01 ppm	≤ 67 ppm	≤ 02 ppm

European Pharmacopoeia

Conditioning :

GC ₀₂	LC ₀₂
B50	Cryogenic mobil Tank

