

Carbon dioxide 4.8

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/ma
 Gas density (1.013 bar at the sublimation point): 2.814 kg/ma
 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.



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24/7**



APPLICATIONS :

Active gas in CO₂ lasers
 Component in artificial biological atmospheres
 Solvent for supercritical extraction and chromatography (SFE/SFC)
 -Laboratories and analyses: as mobile phase in supercritical phase chromatography.
 Laboratory research, Organic solvent, Pharmaceutical manufacturing, Instrumentation gas: Mobile phase, Carrier gas

TECHNICAL INFORMATION

Purity :	Impurities :				
CO ₂	CO	O ₂	N ₂	H ₂ O	CnHm
≥ 99.998 %	≤ 1 ppm	≤ 02 ppm	≤ 08 ppm	≤ 3 ppm	≤ 01 ppm

Conditioning :

GC02	LC02
B50	Cryogenic mobil Tank

