Carbon dioxide liquid

Chemical name	Carbon dioxide	
Formula	CO_2	
Purity	≥ 99.9 vol %	
Impurities	N_2	< 100 ppm
	O_2	< 50 ppm
	H_2O	< 40 ppm
	C_xH_y	< 10 ppm

Packaging

	Gross water content (l)	Max. working pressure (bar)	Article code
Vacuum insulated storage tanks	180 - 600	15 a 20 (at ca. -22°C)	3700910
	3,200 – 50,000	15 a 20 (at ca. -22°C)	3700901

Conversion factors

1 kg	≅ 0.54 m^3	≅ 0.97 l	l = liter at -20°C
1 m^3	≅ 1.85 kg	≅ 1.79 l	m^3 at 15°C and 1 bar
1 l	≅ 1.03 kg	≅ 0.56 m^3	≅ equals

Thermo physical properties

Molecular weight (kg/kmol)	44.01		
Density gas (kg/m3 at 1,013 bar and 0 °C)	1.977		
Density liquid (at -20 °C) (kg/dm^3)	1.03		
Relative density (air = 1)	1.529		
Sublimation point (°C) (K)	-78.5	respective	194.7
Critical temperature (°C) (K)	31.1	respective	304.2
Vapour pressure	19.7		

Additional information

Safety data sheet	MSDS available on www.linde-gas.nl
Product description	Carbon dioxide, colourless and odourless, under pressure liquefied, cooled gas
Delivery form	Liquid

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Applications

Fertilization horticulture
Carbon dioxide blasting
Supercritical extraction
Chemical syntheses
Shield gas for welding
Lasers
Propellant of foam and aerosol
Fire-extinguishing
Quality control of swimming pool water (LGC)

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