

Carbon Dioxide (Medical)

Medical Carbon Dioxide is used for various medical purposes. It can be used as an insufflations gas for minimal invasive surgery (laparoscopy, endoscopy, arthroscopy) to enlarge and stabilize body cavities for better visibility of the surgical field. Also, in its liquid phase, it can be used to provide temperatures down to 76° C for cryotherapy or for local analgesia by external application onto the skin surface.

Description

Synonym: Carbonic Anhydride, Carbonic Acid Gas
Formula: CO₂

Gas Data

Molecular Weight: 44.01
Density: 1.833 kg/m³ @ 21.1°C, 101.325 kPa
0.1144 lb/ft³ @ 70°F, 14.696 psia
Specific Volume: 0.5456 m³/kg @ 21.1°C, 101.325 kPa
8.741 ft³/lb @ 70°F, 14.696 psia

Safety Information

Permissible Exposure
Limit (TLV): 5000 ppm

Shipping Information

CAS Registry Number: 124-38-9
UN Number: UN 1013
ECCN Number: 1C980
DOT Proper Shipping Name: Carbon Dioxide
DOT Classification: 2.2 (Non Flammable Gas)
DOT Label: NON-FLAMMABLE GAS
TC Shipping Name: Carbon Dioxide
TC Classification: 2.2
TC Label: NON-FLAMMABLE GAS,
NON-POISONOUS GAS

Cylinder Specifications

Cylinder Size	Content		Valve Outlet CGA No.
	Pounds	Liters	
G	50 lbs 0 oz	12,176	320
M	30 lbs 10 oz	7,459	320
E	6 lbs 7 oz	1,532	940
D	3 lbs 13 oz	883	940

Our packaging of gases includes a complete range of cylinder sizes, cylinder cradles (6 and 12 packs), tube trailers, microbulk and bulk.

We can handle virtually any size requirement, from a customer using 1 or 2 cylinders per year, to customers using millions of cubic feet of product monthly.