CARBON DIOXIDE (CO2)

Synonyms: Carbonic anydride; Dry Ice, Carbonic acid gas



Gas Description

Carbon Dioxide gas is formed from the combination of carbon and oxygen. It is produced from the combustion of coal and hydrocarbons, the fermentation of liquids and the breathing of humans and animals. Found in small proportions in the atmosphere, it is assimilated by plants which in turn produce oxygen. Carbon Dioxide has a slightly irritating odour, is colourless, is heavier than air and cannot sustain life.

Typical applications:

Carbonation of beverages

Inerting, purging and sheilding gas

Refrigeration

Neutralization agent for pH control

Heat treatment

Lasers

Fire extinguishers

Propellant

Transport Regulations:

UN Number: 1013

Shipping Name : CARBON DIOXIDE Class : 2.2 : Non-Flammable Gas

CAS Number: 124-38-9

Hazchem: 2RE

Click here for MSDS

Click here for more information

Physical Properties

Chemical symbol: CO₂
Molecular weight: 44.01
Specific gravity (Air=1): 1.521
Specific volume (m³/kg): 0.55

Critical temperature : 31°C Boiling point : -78.5°C Melting Point: NDA

Critical pressure (bar): 73.90

Major hazards: Inhalation / High Pressure Toxicity: TWA 5,000 STEL 3,0000 Flammability Range: Non-Flammable

Odour: Slightly Irritating

Click here for more information

Application	
INDUSTRY	APPLICATION
Laboratories and Analysis	"Cryo" cooling in GC's Specimen sample preservation.
Food Processing	Carbonation of carbonated beverages, draft beer and quick-freezing
Machine / Metal Construction	Shielding of welds against oxidation.
Other	Carbon dioxide snow for fire extinguishers; pH control and regulation of waste wates, swimming pools etc.
Healthcare	Surgical dilation by intra-abdominal insufflation.
	Click here for more information

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Typical impurities	Cylin	dor Cino	1 St 1/21 1/25		
(ppm molar)		ider Size V	alve Connection	Pressure (kPa)	Contents (m³)
2	ppm G ppm E	Α	S 2473 T 30	5,700	31 15
	ppm D ppm				9

Single stage chrome plated brass body regulator with a stainless steel diaphragm. For further information *Contact* the specialty gases representative in your region.

Carbon	Dioxide : SF	C Super	Critical Chromatography		
Gas		Cylinder informa	tion		
Typical in (ppm	mpurities molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m³)
Ar	< 5ppm	G	AS 2473 T 30	5,700	31
H ₂ O	< 3ppm	E			15
0,	< 2ppm	D			9
N ₂	< 50ppm				
H,	< 5ppm				
H ₂ CO	< 5ppm				
CH₄	< 2ppm				
Recomm	nended Equipr	ment			

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

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Gas	Cylinder informa	tion		
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m³)
	G	AS 2473 T 30	5,700	31
	E D			15
	D			9
Recommended Equi	pment			

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Carbon Dioxide: Coleman Instrument Min Purity 99.99%

Gas	Cylinder informa	tion		
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m³)
	G E	AS 2473 T 30	5,700	31 15
	D			9

Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm. For further information *Contact* the specialty gases representative in your region.

Carbon Dioxide : Anaerobic Min Purity 99.995%

Gas		Cylinder information				
	l impurities m molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m³)	
O ₂	10ppm max	G E D	AS 2473 T 30	5,700	31 15 9	

Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information Contact the specialty gases representative in your region.