

CARBON MONOXIDE (CO)

Synonyms : Carbon oxide; Carbonic oxide



Gas Description

Carbon Monoxide is a colourless, odourless, flammable and hazardous gas with a gas density at STP 1.169 kg/m³. Carbon Monoxide is formed from the combination of a carbon atom with an oxygen atom and is used in large quantities to produce various intermediary organic chemicals such as acetic acids, isocyanates, formic acids and certain polymers. Carbon Monoxide can be supplied in cylinders,

Typical applications :

Fuel and reducing agent in metallurgy
Intermediate in chemical synthesis, acids, esthers and alcohols
Production of metal powders
Manufacturer and regeneration of catalysts

Transport Regulations :

UN Number : 1016
Shipping Name : CARBON MONOXIDE, COMPRESSED
Class : 2.3: (2.1) : Toxic / Flammable Gases
CAS Number : 630-08-0
Hazchem : 2[S]E

[Click here](#) for MSDS

[Click here](#) for more information

Physical Properties

Chemical symbol : CO
Molecular weight : 28.01
Specific gravity (Air=1) : 0.968
Specific volume (m³/kg) : 0.86
Critical temperature : -140°C
Boiling point : -191.6°C

Melting Point : NDA
Critical pressure (bar) : 35.01
Major hazards : Fire and Inhalation
Toxicity : TWA 30ppm STEL
Flammability Range: 10.9% - 74.0% ref N°52
Odour : None

[Click here](#) for more information

Application

INDUSTRY

Laboratories

Chemicals

APPLICATION

Used in calibration gas mixtures for the petrochemical industry and others.

Used in the manufacturing of metal carbonyls.
Used as a raw material in polycarbonate, polyurethane and oxy-alcohol creation based on SMR and ATR processes.

[Click here](#) for more information

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Carbon Monoxide : N20

Standard Purity 99.0%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
N ₂	~0.4% ppm	B20 alu	NF E	20,000	4
N ₂	~0.5% ppm	B50 alu			10
		PC alu			78

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 Monoxide : N47

Min Purity 99.997%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 3ppm	B 0.4 alu	NF E	20,000	60 litres
O ₂	< 3ppm	B 1 alu		15,000	150 litres
CnHm	< 2ppm	B 5		20,000	15
H ₂	< 1ppm	B 20			4
CO ₂	< 1ppm	B 50			10
N ₂	< 10ppm				
Ar	< 10ppm				

Recommended Equipment

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

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