METHANE (CH_4)

Synonyms : Methyl hydride; Marsh Gas

AIR LIQUIDE

Gas Description

Methane is a colourless, odourless, flammable and non-toxic gas with a gas density at STP 0.679 kg/m^3. Methane is the major component of natural gas and is the base material for ammonia, ethanol, methanol, methyl chloride, chloroform and various other chemicals.

Typical applications :

Heating Fuel
Raw material for production of Hydrogen, Methanol, Ammonia etc
Combustion and engine testing
Quenching gas in radiation detectos
Carbon carrier in metallurgy

Transport Regulations :

UN Number : 1971
Shipping Name : METHANE, COMPRESSED
Class : 2.1 : Flammable Gas
CAS Number : 74-82-8
Hazchem : 2[S]E

Click here for MSDS
Click here for more information

Physical Properties

Chemical symbol : CH_4
Molecular weight : 16.04
Specific gravity (Air=1) : 0.55
Specific volume (m^3/kg) : 1.47
Critical temperature : -82°C
Boiling point : -161.6^{o}C

Melting Point : -182.5^{o}C
Critical pressure (bar) : 46.43
Major hazards : Fire and High Pressure
Toxicity : Simple Asphyxiant
Flammability Range: 4.4 - 17.0% ref N°183
Odour : None

Click here for more information

Application

INDUSTRY	APPLICATION
Laboratories and Analysis	In mixture with argon, methane is used in geiger counters and for the detector in X-Ray Fluorescence (XRF) as quentching gas. In mixture with other hydrocarbons, methane is used as a reference point in calorimetric measurements for the measurement of PCI of hydrocarbons or coal. Methan is used in calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers. *Click here* for more information

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Methane : **N35**

Standard Purity 99.95%

Gas		Cylinder information			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m^3)
H_2O	< 5ppm	B 5 alu	NF E		
O_2	< 10ppm	B 20			
C_2H_6	< 200ppm	B 50			
CnHm	< 50ppm				
CO_2	< 10ppm				
N_2	< 200ppm				
H_2	< 20ppm				

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.

Methane : **N45**

Standard Purity 99.995%

Gas		Cylinder information			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m^3)
H_2O	< 5ppm	B 0.4 alu	NF E		
O_2	< 5ppm	B 5 alu			
C_2H_6	< 15ppm	B 20 alu			
CnHm	< 5ppm	B 50			
CO_2	< 1ppm				
N_2	< 15ppm				
H_2	< 1ppm				

Recommended Equipment

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

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METHANE (CH_4)

Synonyms : Methyl hydride; Marsh Gas

AIR LIQUIDE

Methane : **N55**

Standard Purity 99.9995%

Gas

Typical impurities (ppm molar)	
H_2O	< 2ppm
O_2	< 0.5ppm
C_2H_6	< 0.1ppm
CnHm	< 0.05ppm
CO_2	< 0.1ppm
N_2	< 2ppm
H_2	< 0.1ppm

Cylinder information

Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m^3)
B 0.4 alu	NF E		
B 1 alu			
B 5 alu			
B 20			
B 50			

Recommended Equipment

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

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