

Marking

CAS-Number 74-82-8

Characterization acc. ADR UN 1971, Methane, 2.1
Class 2, 1F

Cylinder Marking

shoulder:
red

Essential properties

Colourless, odorless, flammable gas, compressed, lighter than air

Symbols of Risks

flammable



gas, compressed

Physical Properties

molecular weight: 16,043 kg/kmol
 gas density at 0°C and 1,013 bar: 0,7175 kg/m³
 density ratio to air: 0,5549

For additional safety information see Material-/safety data sheet No. *-CH4-078A

Valves / Manifolds

Valve connection acc. to national standards

Recommended Manifolds Spectrolab FM 51/FM 52exact



Specifications / Cylinders						
		2.5	3.5	4.5	5.5	
Composition						
CH ₄	>	99,5	99,95	99,995	99,9995	Vol.-%
Impurities						
O ₂	<	100	10	5	0,5	ppmv
N ₂	<	500	200	15	2	ppmv
H ₂ O	<	10	5	5	2	ppmv
other HC	<	2000	250	20	0,15	ppmv
CO ₂	<	500	10	1	0,1	ppmv
Cylinders / Contents						
F 10 200 bar		2,5	2,5	2,5	2,5	m ³
F 50 200 bar		12,5	12,5	12,5	12,5	m ³
B 12* F 50 200 bar		150,4	-	-	-	m ³

Remarks

Applications:
 Fuel for power generation in gas turbines and steam boilers
 Fuel for household cooking and heating
 Fuel for vehicles (compressed natural gas, CNG)
 Feedstock of choice for production of hydrogen, carbon monoxide, methanol, acetic acid and a lot of organic compounds