

Marking

CAS-Number	74-86-2
Characterization acc. ADR	UN 1001, Acetylene, dissolved, 2.1 Class 2, 4 F

Cylinder Marking



shoulder:
maroon

Essential properties

Colourless, in pure form odorless, flammable gas, exothermic self-ignition, dissolved in acetone or DMF, lighter than air

Symbols of Risks



flammable



gas, dissolved

Physical Properties

molecular weight:	26,038 kg/kmol
gas density at 0°C and 1,013 bar:	1,1775 kg/m ³
density ratio to air:	0,9066
vapour pressure at 20°C:	43,36 bar

For additional safety information see Material-/safety data sheet No. *-C2H2-001

Valves / Manifolds

Valve connection	acc. to national standards
Recommended Manifolds	Spectrolab FM 51 / FM 52exact



Specifications / Cylinders

		Acetylene 2.6	
Composition			
C ₂ H ₂	>	99,6	Vol. %
Impurities			
N ₂ + O ₂ + HC	<	0,4	Vol. %
PH ₃ + NH ₃	<	10	ppmv
Cylinders / Contents			
F 10		2,0	kg
F 50		8,0 - 10,0	kg
B 12 * F 50		105,0	kg

Remarks

Applications:
Fuel gas for atomic absorption spectroscopy (AAS) and flame photometry

For reasons of quality no filling of customer owned cylinders.

For reasons of stability acetylene is dissolved under pressure in a solvent (acetone or DMF). During withdrawal the gas contains solvent vapours.