

Acetylene



also: Ethine

PURE GASES

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



extremely flammable



gas, dissolved

Physical Properties

molecular weight: 26,038 kg/kmol
gas density at 0°C and 1,013 bar: 1,1775 kg/m³
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 Spectron BT 61



Specifications / Forms of delivery

		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.