

**Marking**

<b>CAS-Number</b>	74-85-1
<b>Characterization acc. ADR</b>	UN 1962, Ethylene, 2.1 Classe 2, 2F

**Cylinder Marking**

shoulder:  
red

**Essential properties**

Colourless, flammable gas with slightly sweet odor, liquified, lighter than air

**Symbols of Risks**

extremely flammable



warning



gas, liquified

**Physical Properties**

molecular weight:	28,054 kg/kmol
gas density at 0°C and 1,013 bar:	1,2611 kg/m <sup>3</sup>
density ratio to air:	0,9754

For additional safety information see Material-/safety data sheet No. \*-C2H4-055A

**Valves / Manifolds**

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

**Specifications / Forms of delivery**

		3.0	3.5	4.5	
<b>Composition</b>					
C <sub>2</sub> H <sub>4</sub>	>	99,9	99,95	99,995	Vol.-%
<b>Impurities</b>					
O <sub>2</sub>	<	-	10	2	ppmv
N <sub>2</sub>	<	-	50	5	ppmv
H <sub>2</sub> O	<	-	10	5	ppmv
C <sub>2</sub> H <sub>6</sub>	<	500	-	20	ppmv
other HC	<	-	-	20	ppmv
CH <sub>4</sub> + C <sub>2</sub> H <sub>6</sub>	<	1100	-	-	ppmv
CO <sub>2</sub>	<	-	-	5	ppmv
<b>Cylinders / Contents</b>					
F 10		3,7	3,7	3,7	kg
F 50		18,5	18,5	16,0	kg

**Remarks**

Applications:  
Precursor for plastics (polyethylene, polyvinylchloride, polystyrene, polyurethanes)  
Active component in plant and fruit ripening gas (banana gas)