

**Marking**

CAS

Characterization acc. ADR

Cylinder Marking

74-84-0  
UN 1035 ETHANE, 2.1,(B/D)

Shoulder color: red

**Essential properties**

compressed gas, heavier than air, colorless, odorless, flammable

**Symbols of risks**

For additional safety information see safety data sheet \*-C2H6-051A

**Description**

Colourless, odorless, narcotic, highly flammable, liquified gas. Forms explosive mixtures in air.

**Materials**

Cylinders and Valves: any usual materials

Seals: PTFE, PCTFE, PVDF, PA, PP, NBR, FKM

Physical Properties			
<b>molecular weight</b>	30,069 kg/kmol	<b>vapour pressure at 20°C</b>	
<b>critical point</b>		<b>gas density at 0°C and 1,013 bar</b>	1,3551 kg/m <sup>3</sup>
temperature	305,330 K	<b>density ratio to air</b>	1,0481
Pressure	48,714 bar	<b>gas density at 15°C and 1 bar</b>	1,2656 kg/m <sub>3</sub>
density	0,2045 kg/l	<b>conversion factor</b>	
<b>triple point</b>		liquid at Ts to m <sup>3</sup> gas (15°C, 1 bar)	0,43
temperature	90,348 K	<b>virial coefficient</b>	
Pressure	1,1308*10 <sup>-5</sup> bar	Bn at 0°C	-9,88*10 <sup>-3</sup> bar <sup>-1</sup>
<b>boiling point</b>		B30 at 30°C	-7,18*10 <sup>-3</sup> bar <sup>-1</sup>
temperature	184,55 K; -88,6 °C	<b>gaseous state at 25°C and 1 bar</b>	
<b>liquid density</b>	0,5441 kg/l	specific heat capacity cp	1,757 kJ/kg K
evaporation heat	488,5 kJ/kg	thermal conductivity	212*10 <sup>-4</sup> W/m K
		dynam. viscosity	9,43*10 <sup>-6</sup> Ns/m <sup>2</sup>