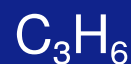


Propene



Propylene

Marking

CAS

Characterization acc. ADR

Cylinder Marking

115-07-1
UN 1077 PROPYLENE,
2.1,(B/D)



Shoulder color: red

Essential properties

liquified gas, heavier than air, colorless, flammable

Symbols of risks



For additional safety information see safety data sheet *-C3H6-105

Description

Colourless, highly flammable, liquified gas. Forms explosive mixtures in air. Violent reactions with strong oxidizers. Catalytic polymerisation.

Materials

Cylinders and valves: any usual materials

Seals: PTFE, PCTFE, PVDF, PP

Physical Properties			
molecular weight	42,080 kg/kmol	vapour pressure at 20°C	
critical point		gas density at 0°C and 1,013 bar	1,9138 kg/m ³
temperature	365,57 K	density ratio to air	1,4802
Pressure	46,646 bar	gas density at 15°C and 1 bar	1,755 kg/m ³
density	0,22339 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15°C, 1 bar)	
temperature	87,89 K	virial coefficient	
Pressure	9,5*10 ⁻⁹ bar	Bn at 0°C	-18,7*10 ⁻³ bar ⁻¹
boiling point		B30 at 30°C	-13,4*10 ⁻³ bar ⁻¹
temperature	225,46 K; -47,7 °C	gaseous state at 25°C and 1 bar	
liquid density	0,60941 kg/l	specific heat capacity cp	1,5306 kJ/kg K
evaporation heat	439,5 kJ/kg	thermal conductivity	170*10 ⁻⁴ W/m K
		dynam. viscosity	8,5*10 ⁻⁶ Ns/m ²