

Butene-(1)



Butylene-(1), 1-Butylene

Marking

CAS

Characterization acc. ADR

106-98-9
UN 1012 BUTYLENES
MIXTURE or 1-BUTYLENE or
CIS-2-BUTYLENE or TRANS-2-
BUTYLENE, 2.1,(B/D)

Cylinder Marking



Shoulder color: red

Essential properties

liquified gas, heavier than air, colorless

Symbols of risks



For additional safety information see safety data sheet *-C4H8-017

Description

Colourless, highly flammable, liquified gas with aromatic odor. Forms explosive mixtures in air. Slightly narcotic effect.

Materials

Cylinders and Valves: any usual materials
Seals: PTFE, PCTFE, PVDF, PA, PP, NBR, FKM

Physical Properties			
molecular weight	56,107 kg/kmol	vapour pressure at 20°C	
critical point		gas density at 0°C and 1,013 bar	2,594 kg/m ³
temperature	419,6 K	density ratio to air	2,01
Pressure	40,2 bar	gas density at 15°C and 1 bar	2,413 kg/m ³
density	0,234 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15°C, 1 bar)	
temperature	87,80 K	virial coefficient	
Pressure		Bn at 0°C	-35*10 ⁻³ bar ⁻¹
boiling point		B30 at 30°C	-25*10 ⁻³ bar ⁻¹
temperature	266,90 K; -6,25 °C	gaseous state at 25°C and 1 bar	
liquid density	0,626 kg/l	specific heat capacity cp	1,592 kJ/kg K
evaporation heat	391 kJ/kg	thermal conductivity	160*10 ⁻⁴ W/mK
		dynam. viscosity	7,76*10 ⁻⁶ Ns/m ²