

Butane



n-Butane

Marking

CAS

106-97-8
UN 1011 BUTANE, 2.1,(B/D)

Characterization acc. ADR

Cylinder Marking



Shoulder color: red

Essential properties

liquified gas, heavier than air, colorless, flammable

Symbols of risks



For additional safety information see safety data sheet *-C4H10-017

Description

Colourless, flammable, liquified gas with narcotic effect. Forms explosive mixtures in air.

Materials

Cylinders and valves: any usual materials

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

Physical Properties			
molecular weight	58,123 kg/kmol	vapour pressure at 20°C	
critical point		gas density at 0°C and 1,013 bar	2,709 kg/m ³
temperature	425,160 K	density ratio to air	2,095
Pressure	37,960 bar	gas density at 15°C and 1 bar	2,514 kg/m ³
density	0,228 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15°C, 1 bar)	
temperature	134,860 K	virial coefficient	
Pressure	6,736*10 ⁻⁶ bar	Bn at 0°C	-42*10 ⁻³ bar ⁻¹
boiling point		B30 at 30°C	-28,9*10 ⁻³ bar ⁻¹
temperature	272,64 K	gaseous state at 25°C and 1 bar	
liquid density	0,6011 kg/l	specific heat capacity cp	1,734 kJ/kg K
evaporation heat	385,8 kJ/kg	thermal conductivity	162,3*10 ⁻⁴ W/mK
		dynam. viscosity	7,51*10 ⁻⁶ Ns/m ²