

# Isobutene



Isobutylene, 2-Methyl propene

## Marking

CAS

Characterization acc. ADR

Cylinder Marking

115-11-7  
UN 1055 ISOBUTYLENE,  
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 \*-C4H8-076

## Description

Colourless, highly flammable, narcotic, liquified gas. Forms explosive mixtures in air. With bromine, chlorine, hydrogen bromide and hydrogen chloride violent reactions are possible.

## 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	2,599 kg/m <sup>3</sup>
temperature	417,89 K	density ratio to air	2,0063
Pressure	40,00 bar	gas density at 15 °C and 1 bar	2,4127 kg/m <sup>3</sup>
density	0,235 kg/l	conversion factor	
triple point		liquid at Ts to m <sup>3</sup> gas (15 °C, 1 bar)	
temperature	132,80 K <SUP><SUB>(Schmelztemperatur)</SUB></SUP>	virial coefficient	
Pressure		Bn at 0 °C	-35*10 <sup>-3</sup> bar <sup>-1</sup>
boiling point		B30 at 30 °C	-25*10 <sup>-3</sup> bar <sup>-1</sup>
temperature	266,03 K; -7,12 °C	gaseous state at 25 °C and 1 bar	
liquid density	0,6262 kg/l	specific heat capacity cp	1,5882 kJ/kg K
evaporation heat	401 kJ/kg	thermal conductivity	163*10 <sup>-4</sup> W/m K
		dynam. viscosity	