

Isobutane



also: 2-Methyl propane

PURE GASES

Marking

CAS-Number 75-28-5

Characterization acc. ADR UN 1969, Isobutane, 2.1
Class 2, 2 F

Cylinder Marking



shoulder:
red

Essential properties

Colourless, flammable gas with slightly sweet odor, liquified, heavier than air

Symbols of Risks



flammable



gas, liquified

Physical Properties

molecular weight: 58,123 kg/kmol
gas density at 0°C and 1,013 bar: 2,6956 kg/m³
density ratio to air: 2,0849
vapour pressure at 20°C: 3,019 bar

For additional safety information see Material-/safety data sheet No. *-C4H10-075

Valves / Manifolds

Valve connection acc. to national standards

Recommended Manifolds Spectrolab control valve PN 40



Specifications / Cylinders				
		2.5	3.5	
Composition				
I-C ₄ H ₁₀	>	99,5	99,95	Vol.-%
Impurities				
O ₂	<	100	5	ppmv
N ₂	<	400	20	ppmv
H ₂ O	<	10	5	ppmv
N-C ₄ H ₁₀	<	3000	300	ppmv
other HC	<	2000	200	ppmv
Cylinders / Contents				
F 10		4,9	4,9	kg
F 50		24,5	24,5	kg

Remarks

Applications:
Precursor for isooctane (antiknock agent)
Precursor for fuel additives
Propellant in aerosol cans or foam products
Refrigerant (R 600a)