

TECHNICAL DATA SHEET

R600a 2.5

Name of product: R600a 2.5
Chemical nomenclature: Isobutane
Chemical formula: C₄H₁₀
Product Specification: Figures referred to liquid phase

Product Specification	Values	Units	Analysis Method
Isobutane	≥ 99,5	% Wt	GC (FID)
Other Hydrocarbons	≤ 5000	ppm	GC (FID)
Sulphur	≤ 1	ppm	GC (FPD)
Water	≤ 12	ppm	DEW POINT
N ₂	≤ 300	ppm	GC (TCD)
O ₂ + H ₂	≤ 100	ppm	GC (TCD)
CO + CO ₂	≤ 100	ppm	GC (TCD)
1,3-Butadiene	≤ 1	ppm	GC (FID)

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Issued	Alessandro Rosa - Laboratory Manager	Approved by	Davide Vattuone - Site Manager

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Chemical and Physical Properties referred to pure product	Values	Units
Boiling point at 1,013 bar:	- 11,7	°C
Chemical Formula:	(CH ₃) ₃ CH	-
Flash point:	-83	°C
Heat of vaporization at constant pressure:	88	Kcal/kg
Heat of vaporization at relevant boiling point:	49,3	Kcal/l
Gas developed from 1 kg of liquid:	0,407	mc
Molecular weight:	58,12	g/mol
Specific gravity at 20°C of liquid:	0,557	Kg/l
Specific gravity at 20°C of vapor:	2,45	kg/mc
Temperature of auto-ignition:	490	°C
Vapor density at 20°C:	2,007	(air=1)
Vapor pressure at 20°C:	2,1	bar (rel)
Vapor pressure at 50°C:	5,8	bar (rel)
Water solubility at 20°C:	0,0325	Vol/Vol

Shipping Information	
Class	2F
UN Number	1969
Hazard statement	H220 - H280
n. CAS	75-28-5
n. EINECS	200-857-2

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