

TECHNICAL DATA SHEET

R290 2.5

Name of product: R290 2.5
Chemical nomenclature: Propane
Chemical formula: C₃H₈
Product Specification: Figures referred to liquid phase

Product Specification	Values	Units	Analysis Method
Propane	≥ 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:	- 42,1	°C
Chemical Formula:	C3H8	-
Flash point:	- 104	°C
Heat of vaporization at constant pressure:	102	Kcal/kg
Heat of vaporization at relevant boiling point:	51,5	Kcal/l
Gas developed from 1 kg of liquid:	0,538	mc
Molecular weight:	44,09	g/mol
Specific gravity at 20°C of liquid:	0,54	Kg/l
Specific gravity at 20°C of vapor:	1,81	kg/mc
Temperature of auto-ignition:	510	°C
Vapor density at 20°C:	1,52	(air=1)
Vapor pressure at 20°C:	7,3	bar (rel)
Vapor pressure at 50°C:	15,8	bar (rel)
Water solubility at 20°C:	0,039	Vol/Vol

Shipping Information	
Class	2F
UN Number	1978
Hazard statement	H220 - H280
n. CAS	74-98-6
n. EINECS	200-827-9

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