



# TECHNICAL DATA SHEET **R600a**

2.5 (Purity > 99.5%)

Name of product: R600a  
Typical use: Refrigerant  
Isobutane n. CE 601-004-00-0

Type	Grade 2.5 (> 99.5%)	
<b>Propane</b>	≤ <b>3000</b>	ppm
<b>N-Butane</b>	≤ <b>2500</b>	ppm
Total Unsat. C4	≤ 100	ppm
Sulfur	≤ 1	ppm liquid phase
H <sub>2</sub> O	≤ 10	ppm
O <sub>2</sub> + H <sub>2</sub>	≤ 15	ppm
N <sub>2</sub>	≤ 50	ppm
CO+CO <sub>2</sub>	≤ 20	ppm
1,3-Butadiene	≤ 1	ppm

\*Individual concentrations may vary slightly

## Chemical – Physical Properties

Boiling point at 1,013 mbar		- 11,7 °C
Chemical Formula		(CH <sub>3</sub> ) <sub>3</sub> CH
Flammability limits in air at 20°C and 1,013 mbar		Lower 1,8 upper 8,4 (% gas in mixture)
Flash point		-83°C
Heat of vaporization:	at constant pressure	88 Kcal/kg
	and relevant boiling point	49,3 Kcal/l
mc of gas developed from 1 kg of liquid		0,407
Molecular weight		58,12 g/mol
Specific gravity at 20°C:	of liquid	0,557 kg/l
	of vapor	2,45 kg/mc
Temperature of autoignition		490°C
Vapor density at 20°C (air=1)		2,07
Vapor pressure:	at 20°C	2,1 bar (rel)
	at 50°C	5,8 bar (rel)
Water solubility at 20°C		0,0325 Vol/Vol