

# Propellants

## Isopentane - Isobutane



### Isopentane - Isobutane: Propellant mix for shaving gels.

This mixture of hydrocarbons has been designed to be used in formulations of shaving gels ; thanks to the technical characteristics of the product once sprayed, the foam is directly obtained in user's hand. It can be supplied in various compositions, the most common being the 70:30 or 75:25 ratios, both by weight.

This product is a mixture of a liquid and a liquefied gas, the final mixture behaves very similar to a liquefied gas, but with a very low vapor tension.

#### Chemical Name:

isopentane-isobutane mixture

#### CAS number:

N/A



#### Technical Characteristics:

- > Extremely flammable, colorless and deodorized liquefied gas.
- > Good chemical stability.
- > Poorly compatible with water and polar solvents.
- > It can be mixed with other propellants, in particular DME.
- > Does not affect the ozone layer and low global warming potential (GWP).

#### Packaging:

- Cylinder
- Roll drum
- ISOtank

#### Applications:



Personal care  
(hairspray, deodorant, etc.)

## Properties:

Chemical Formula	C4H10 + C5H12	
Vapor pressure (20°C)	0,5	bar
Vapor pressure (50°C)	2,7	bar
Liquid Density (20°C)	0,60	kg/l
Liquid Density (50°C)	0.567	kg/l
Kauri - Butanol	< 20	
Solubility in water (20°C)	0,008	% weight
LEL (Lower Explosive Limit)	1,3	% volume
UEL (Upper Explosive Limit)	8,5	% volume
1.3-butadiene contento	<0.1	% weight

## Table of temperature, pressure and density:

Temperature (°C)	Pressure (bar)	Liquid density (kg/l)
0	-0,2	0,621
5	-0,1	0,616
10	0,1	0,611
15	0,3	0,606
20	0,5	0,600
25	0,8	0,595
30	1,1	0,590
35	1,4	0,584
40	1,8	0,578
45	2,2	0,573
50	2,7	0,567
55	3,2	0,561
60	3,7	0,555
65	4,3	0,549

## Normative:

GRIT (Gases Research Innovation & Technology) is committed to the continuous improvement of our inbuilt Quality Control, Environment and Major Accident Prevention Systems as well as close collaboration with our product and service providers. The scope of the system includes the packaging, commercialization, storage and innovation of technical gases and the management of residual fluorinated gas and halogenated solvents.

All this work is reflected in our certificates ISO 9001 & ISO 14001.

## More information:

If you want more information about our products, contact us.

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