



NovaSpray isobutane / propane 3.2 bar

PERFORMANCES

The **NovaSpray™ isobutane/propane 3.2 bar** is a specially deodorized aerosol grade blend of **NovaSpray™ isobutane** and **NovaSpray™ propane**. With a constant quality and controlled pressure, it meets all the requirements of a propellant.

- Economical because of its low density, it allows reducing **the necessary weight of propellant**.
- Its **excellent miscibility with most solvents** allows a lot of flexibility in formulation.
- With no effect on the ozone layer and a negligible impact on the greenhouse effect.

SPECIFICATIONS

Standard characteristics	Limit values
Appearance	Clear
Odor	None
Vapor pressure at 20°C	3.2 ± 0.3 bar (relative)
Composition:	
Isobutane*	83 ± 3 % weight
Propane	17 ± 3 % weight
1,3-Butadiene content	≤ 0.01 % weight
Non volatile residue	≤ 0.1 % weight

*for your information: isobutane: ≥ 78 % weight and n-butane: ≤ 5 % weight

CHARACTERISTICS

		Units	Values
Molecular weight	average	g/mol	57*
Boiling point	below 1.013 bar	°C	-40
Liquid density	at 20°C	kg/dm ³	0.55*
	at 50°C		0.51*
Relative pressure	saturation vapor at 20°C	bar	2.7*
	saturation vapor at 50°C		7.1*
Kauri-Butanol index			16*
Hydrocarbon solubility	in water at 20°C	% weight	0.075*
Water solubility	in hydrocarbon at 20°C	% weight	0.01*
Lower flammability limit	in the air at 20°C	% volume	1.8
Upper flammability limit	below 1.013 bar		9.5
Auto-ignition temperature		°C	> 300

*calculated



PACKAGING

	Bottles		Container	Bulk
Capacity (liter)	26	88	930	5 to 10 T
Tare (kg)	16	38	460	
Load (kg)	13	41	430	
Diameter (mm)	300	300	860	
Height (mm)	630	1530	2330	
Outflow external diameter (mm)	21.7	21.7	26.1	
Tap : left pitch (mm)	1.814	1.814	1.814	
Test pressure (bar)	30	33	33	

- Packaging technical characteristics are available upon request to the commercial department.
- Feasibility of filling packaging of the customers if they are in conformity with the legislation.
- Contact us for any other specific packaging.

STORAGE AND SHELF LIFE

Precautions for handling and storage :

French plants are controlled by the regulation of listed Establishments and have to comply with it (or with the local legislation).

- All packaging will be stored in a dry, well ventilated, easily accessible place, sheltered from sunlight and bad weather, away from any ignition source.
- It is recommended to store all packaging either in a specific place or isolated and sheltered by a fence.
- All packaging and piping will be grounded to discharge static electricity.
- Leak detectors, put at ground level, will be connected to an audible alarm, which will trigger in the event of leaks.
- The whole equipment will be tested with an appropriate leak detector before use.
- Material and electrical equipment in an explosive atmosphere will comply with the regulations (*grounding, equipotential bonding, ATEX material*).

Climalife can study the set up and assembling of your storage tanks, piping, and pumps, according to the prevailing regulations



CONDITIONS OF USE

Please refer to the Material Safety Data Sheet (MSDS) before using the product.
Workers handling the product should be trained about risks and preventive measures.

The product is compatible with:

COMPATIBILITY	INCOMPATIBILITY
<p>Plastics :</p> <ul style="list-style-type: none">▪ Polyamides▪ Polyurethane▪ Polyvinyl chloride (PVC)▪ Polypropylene (<i>t < 80°C</i>)▪ Epoxy resins▪ Acetal polymers▪ Polyethylene (<i>to be tested</i>)▪ Polystyrene (<i>to be tested</i>) <p>Elastomers :</p> <ul style="list-style-type: none">▪ BUNA N[®] <p>Metals :</p> <ul style="list-style-type: none">▪ Ordinary steel	<ul style="list-style-type: none">▪ Ethyl cellulose▪ Polyisobutylene▪ Natural and butyl rubbers▪ Strong bases▪ Oxidizing agents▪ Combustive agents

The information above is intended as a guide only. We assume no liability for its accuracy on its use. The user should make its own tests under its conditions in order to determine the suitability of any compound in a peculiar application.

Handle:

- away from heat sources (*flames or hot metallic surfaces*)
- in cool and aired premises

HEALTH SAFETY ENVIRONMENT (HSE)

Consult the Material Safety Datasheet (MSDS) on the website: www.quickfds.com

This data is based on information that the manufacturer believed to be reliable and offered in good faith. In no event will Climalife be responsible for special, incidental and consequential damages. The user is responsible, to the Administrative Authorities (Regulation of the listed establishments for the protection of the environment), for the conformity of his installation.