



STP-FP-158 V. 002 - 01/01/2020

# NovaSpray propane

### **PERFOMANCES**

The **NovaSpray**<sup>TM</sup> **propane** is specially **deodorized** aerosol grade **without propylene**.

With a constant quality, it meets all the requirements of a propellant. It is generally used to increase **the pressure of the blends** with the NovaSpray  $^{TM}$  n-butane and the NovaSpray  $^{TM}$  isobutane.

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 formulations. 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	7.4 $\pm$ 0.3 bar (relative)	
Purity	≥95 % weight	
1,3-butadiene content	≤ 0.01 % weight	
Non volatile residue	≤ 0.1 % weight	

### **CHARACTERISTICS**

		Units	Values
Chemical formula			CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>3</sub>
Chemical name			propane
Molecular weight		g/mol	44
Boiling point	at 1.013 bar	°C	-42
Liquid density	at 20°C kg/dm <sup>3</sup>	kg/dm <sup>3</sup>	0.50
	at 50°C		0.45
Relative pressure	har	bar	7.4
	saturating vapor at 50°C		16.0
Kauri-Butanol index			15
Propane solubility	in water at 20°C	% weight	0.007
Water solubility	in propane at 20°C	% weight	0.016
Lower flammability limit	in the air at 20°C	% volume	2,2
Upper flammability limit	below 1.013 bar	% volume	9,5
Auto-ignition temperature		°C	450





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#### **PACKAGING**

	Bottles		Container	Bulk
Capacity (liter)	26	88	930	
Tare (kg)	16	38	460	
Load (kg)	10	36	380	
Diameter (mm)	300	300	860	Г +o 20 Т
Height (mm)	630	1530	2330	5 to 20 T
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
Plastics: Polyamides Polyurethane Polyvinyl chloride (PVC) Polypropylene (t < 80°C) Epoxy resins Acetal polymers  Elastomers: BUNA N®  Metals: Ordinary steel	<ul> <li>Ethyl cellulose</li> <li>Polyisobutylene</li> <li>Natural and butyl rubbers</li> <li>Strong bases</li> <li>Oxidizing agents</li> <li>Combustive agents</li> </ul>

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.

#### Measures while handling:

- Collect vapors at emission point,
- Use spark-free tools (beryllium bronze),
- Ground the equipment,
- Work in a well ventilated premises to avoid accumulating static discharges.

# **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.