Propellants

LPG Propellant 3.2bar

LPG Propellant 3.2bar: Most versatile hydrocarbon propellant.

LPG Propellant 3.2bar is a mixture of propane, isobutane and n-butane with a pressure of 3.2 ± 0.2bar and a 1.3-butadiene content of less than 0.1% by weight. It's the most widely used due to its technical versatility and cost.

This product is obtained from the distillation of petroleum in the form of fraction C3 (propane) and C4 (butane / isobutane). Impurities are eliminated from both fractions and deodorized, later for the manufacture of the propellant the C4 fraction is mixed with fraction C3 until the target pressure 3.2bar at 20ºC is reached. This mixture does not have a fixed composition, since it depends on the ratio of isobutane / n-butane obtained from the crude used as raw material.

Chemical Name:	CAS number:
Mixture of propane, isobutane and n-butane	N/A

Technical Characteristics:

> Extremely flammable, colorless and deodorized liquefied gas.
> Versatility for all aerosol uses.
> 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.)

Home care products

Paints and varnishes

Technical aerosol

Properties:

Chemical Formula	C3H8 + C4H10	
Vapor pressure (20ºC)	3,2	bar
Vapor pressure (50ºC)	8,1	bar
Liquid Density (20ºC)	0,55	kg/l
Liquid Density (50ºC)	0,51	kg/l
Kauri - Butanol	< 20	
Solubility in water (20ºC)	0,008	% weight
LEL (Lower Explosive Limit)	1,8	% volume
UEL (Upper Explosive Limit)	9,5	% volume
1.3-butadiene content	<0.1	% weight

Table of temperature, pressure and density:

Temperature (ºC)	Pressure (bar)	Liquid density (kg/l)
0	1,4	0,576
5	1,8	0,570
10	2,2	0,564
15	2,7	0,558
20	3,2	0,552
25	3,9	0,546
30	4,6	0,539
35	5,4	0,533
40	6,2	0,526
45	7,1	0,519
50	8,1	0,512
55	9,2	0,505
60	10,3	0,497
65	11,6	0,489

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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