Propellants

Isobutane

Isobutane: LPG propellant for low pressure applications.

Isobutane is a single-component propellant in the form of a liquefied gas, characterized by having an ideal pressure for applications that require low-pressure propulsion. Its high purity makes it suitable for use as a propellant in aerosols or as additive E-943b in the food industry. Furthermore, as a hydrocarbon that burns very cleanly, it is recommended for use in lighters. It has a 1,3-butadiene content of less than 0.1% by weight.

Chemical Name:

2-methylpropane

CAS number:

75 - 28 - 5

Technical Characteristics:

> Extremely flammable, colorless and odorless liquefied gas.
> Adequate pressure for low propulsion applications.
> Poorly compatible with water and polar solvents.
> Does not affect the ozone layer and low global warming potential (GWP)

Packaging:

- Cylinder
- Roll drum
- ISOtank

Applications:

Personal care (hairspray, deodorant, etc.)

Technical aerosol

E-943b Additive

Properties:

Chemical Formula	C4H10	
Molecular Weight	58,12	g/mol
Boiling Point	-11,9	ºC
Vapor pressure (20ºC)	2,0	bar
Vapor pressure (50ºC)	5,8	bar
Liquid Density (20ºC)	0,56	kg/l
Liquid Density (50ºC)	0,52	kg/l
Kauri - Butanol	18	
Solubility in water (20ºC)	0,008	% weight
LEL (Lower Explosive Limit)	1,8	% volume
UEL (Upper Explosive Limit)	8,4	% volume
1.3-butadiene content	<0.1	% weight

Table of temperature, pressure and density:

Temperature (ºC)	Pressure (bar)	Liquid density (kg/l)
0	0,6	0,581
5	0,9	0,575
10	1,2	0,569
15	1,6	0,563
20	2,0	0,557
25	2,5	0,551
30	3,0	0,544
35	3,6	0,538
40	4,3	0,531
45	5,0	0,524
50	5,8	0,517
55	6,7	0,510
60	7,7	0,503
65	8,7	0,495

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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