Propellants

Isopentane

Isopentane: Blowing agent for aerosol gel formulations.

Isopentane is an extremely flammable liquid hydrocarbon that can be included in personal care gel formulations using the traditional LPG propellant 3.2bar. Isopentane acts as a blowing agent, generating foam during the handling of the gel by the user.

Isopentane can also be used as a solvent for non-polar products.

Chemical Name:

2-methylbutane

CAS number:

N/A

Technical Characteristics:

> Extremely flammable, colorless, deodorized liquid hydrocarbon.
> Good chemical stability.
> Poorly compatible with water and polar solvents.
> It can be mixed with other propellants, in particular with LPG propellant 3.2bar.
> 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	C5H12	
Molecular Weight	72,15	g/mol
Boiling Point	35	ºC
Vapor pressure (20ºC)	0,8	bara
Vapor pressure (50ºC)	2,1	bara
Liquid Density (20ºC)	0,62	kg/l
Liquid Density (50ºC)	0,59	kg/l
Kauri - Butanol	< 20	
LEL (Lower Explosive Limit)	1,3	% volume
UEL (Upper Explosive Limit)	7,6	% volume

Table of temperature, pressure and density:

Temperature (ºC)	Pressure (bar)	Liquid density (kg/l)
0	0,3	0,640
5	0,4	0,635
10	0,5	0,630
15	0,6	0,625
20	0,8	0,620
25	0,9	0,615
30	1,1	0,610
35	1,3	0,605
40	1,5	0,599
45	1,8	0,594
50	2,1	0,589
55	2,4	0,583
60	2,7	0,577
65	3,1	0,572

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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