Propellants

R-152a



R-152a: Low GWP and non-VOC HFC propellant.

R-152a is a low GWP, non-VOC flammable HFC propellant. It is especially suitable for use in aerosol products for the US market, since it is not declared as VOC by EPA.

Furthermore, it's a propellant that is not affected by the f-gas regulation (517/2014) or by the Spanish law of special taxes on HFCs because its GWP is less than 150.

Technically speaking, thanks to its stability, compatibility with organic solvents as well as with water, it can be used in almost all aerosol uses.

Chemical Name:

CAS number:



1,1-difuoroethane

75 - 37 - 6

Technical Characteristics:

- > Colorless, odorless, low GWP, extremely flammable liquefied gas, not VOC declared by EPA.
- > Good vapor pressure.
- > Compatible with common organic solvents and water.
- > Can be combined with both hydrocarbon propellants and dimethyl ether.
- > Good chemical stability.

Packaging:

- Cylinder
- · Roll drum
- ISOtank

Applications:



Personal care (hairspray, deodorant, etc.)



Industrial aerosols (especially polyurethane)



Pinturas y barnices



Home care products



Technical aerosol

Properties:

Chemical Formula	CHF2-CH3	
Molecular Weight	66,05	g/mol
Boiling Point	-24	°C
Vapor pressure (20°C)	4,1	bar
Vapor pressure (50°C)	10,8	bar
Liquid Density (20°C)	0,91	kg/l
Liquid Density (50°C)	0,83	kg/l
LEL (Lower Explosive Limit)	3,9	% volume
UEL (Upper Explosive Limit)	18	% volume

Table of temperature, pressure and density:

Temperature (°C)	Pressure (bar)	Liquid density (kg/l)
0	1,6	0,959
5	2,1	0,948
10	2,7	0,936
15	3,4	0,924
20	4,1	0,912
25	5,0	0,899
30	5,9	0,887
35	6,9	0,873
40	8,1	0,860
45	9,4	0,846
50	10,8	0,831
55	12,3	0,815
60	14,0	0,799
65	15,8	0,782

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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