

Propellants

Propane



Propane: Ideal hydrocarbon propellant for increasing pressure.

Propane is a single component propellant in the form of an extremely flammable liquefied gas, characterized by its high pressure, which is why it is used to boost pressure in very specific applications. This propellant is not used alone as a propellant because it does not comply with the aerosol directive regarding the maximum pressure at 50°C.

Chemical Name:

Propane

CAS number:

74 - 98 - 6



Technical Characteristics:

- > Extremely flammable, colorless and odorless liquefied gas.
- > High pressure to increase pressure in the final formulation.
- > 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

Properties:

| Chemical Formula | C3H8 | |
|-----------------------------|-------------|----------|
| Molecular Weight | 44,09 | g/mol |
| Boiling Point | -42,11 | °C |
| Vapor pressure (20°C) | 7,4 | bar |
| Vapor pressure (50°C) | 16,1 | bar |
| Liquid Density (20°C) | 0,50 | kg/l |
| Liquid Density (50°C) | 0,45 | kg/l |
| Kauri - Butanol | 15 | |
| Solubility in water (20°C) | 0,007 | % weight |
| LEL (Lower Explosive Limit) | 2,2 | % volume |
| UEL (Upper Explosive Limit) | 9,5 | % volume |
| 1.3-butadiene content | <0.1 | % weight |

Table of temperature, pressure and density:

| Temperature (°C) | Pressure (bar) | Liquid density (kg/l) |
|-------------------------|-----------------------|------------------------------|
| 0 | 3,7 | 0,529 |
| 5 | 4,5 | 0,522 |
| 10 | 5,4 | 0,515 |
| 15 | 6,3 | 0,508 |
| 20 | 7,4 | 0,500 |
| 25 | 8,5 | 0,492 |
| 30 | 9,8 | 0,484 |
| 35 | 11,2 | 0,476 |
| 40 | 12,7 | 0,467 |
| 45 | 14,3 | 0,458 |
| 50 | 16,1 | 0,449 |
| 55 | 18,1 | 0,439 |
| 60 | 20,2 | 0,428 |
| 65 | 22,4 | 0,416 |

Normative:

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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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