

Propane (C₃H₈, R-290)

CAS: 74-98-6 UN: 1978

Propane Instrument Grade N1.7								
Purity (%)	97							
Impurities (ppm)	S 1	CnHm	3%	H ₂ O 50	Unsaturated 0,1% 1,3 Butadiene 1 400			
Typical Filling Pressure	15°C: 7,3 bar(a)							

Characteristics

- Flammable
- Colourless, liquefied gas.

Health Risks

Asphyxiant at high concentrations.

Transport

ADR Class 2,2F -

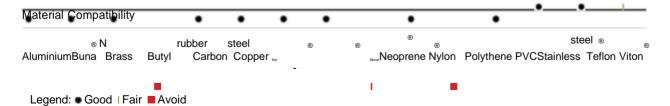
DOT Class 2,1





Product Description	Size (kg)	Grade	Material Number	Valve Connection	Recommended Regulator
Propane Pure	Bulk	N1.7	580080	5/8" BSP LH Int	Recommendation on Request
Propane IG	45,0	N1.7	508403-LF-C	5/8" BSP LH Int	W019120 or W019220
Propane IG	9,0	N1.7	508403-LC-C	5/8" BSP LH Int	W019120 or W019220
Propane IG	48.2	Wet N1.7	508413-LF-C	5/8" BSP LH Int	No Regulator Reguired

Physical Data		
Molecular Weight	44,097	
Boiling Point at 1,013 bar [°C]	-42,04	
Density at 1,013 bar, 20°C [kg/m ₃]	1,868	
Vapour Pressure at 0°C [bar]	4,76	
Vapour Pressure at 20°C [bar]	8,39	
Flammability Range in Air [% volume]	2,1 - 9,5	110
Specific Volume at 1,013 bar, 20°C [m ₃ /kg]	0,535	



Source

Propane is a constituent of crude petroleum and natural gas from which it is obtained by refining and processing operations.

Applications

used to calibrate process control analysers in the petro-

Propane is of interest as a specialty gas mainly in mixtures

chemical industry. It is also used in its pure form as the fuel gas in flame photometers.

- For heating of industrial premises and apartments
- As fuel supply to hot air generators used in farming for drying harvests
- For heating animal breeding areas
- In hotels and restaurants
- In portable heating units at work sites, markets, etc.
- In the iron and steel industry: burners for heat treatment furnaces, radiation panels for surface treatment, metal oxy-cutting
- In the chemical industry: burners for ceramic kilns, in paintwork finishing installations, incinerators in petro-chemical furnaces
- As a clean fuel for intra-plant vehicles, such as fork-lift trucks, where petrol fumes or soot would be considered unpleasant
- Extensively as a refrigerant in chemical, petroleum refining and gas processing operations
- As a refrigerant in high/medium/low temperature; commercial and industrial refrigeration and A/C
- In heat pumps, and mixed with iso-butane it is used in high/medium temperature refrigeration; commercial and domestic refrigeration
- In metallurgy to create controlled atmospheres. It is employed in gaseous cementation processes
- As an aerosol propellant mixed with iso-butane.
- Propane is one of the main components in liquid petroleum gas (LPG).
- As a refrigerant it has the ASHRAE number R-290.
- Propane is used for efficiency testing of gas burners and engines.
- Propane is used in emission calibration mixtures for the automotive industry.
- Propane is used as a component in calibration gases for the gas, oil and chemical industry.