

# Propane (R290)







Propane (R290) is supplied as a liquid under its own vapour pressure in cylinders and in T50 ISO containers for international transport as well as road trailers and rail cars. It is generally used in commercial and industrial refrigeration applications such as LNG liquefaction and is a replacement for R22 and R502

## Standard Specification

(AGT International has multiple manufacturing locations for propane, sample purities are shown below)

Purity / Assay	N1.7	N2.5
Impurities (wt)	97%	99.5%
Propane	> 97%	> 99.5%
Ethane	< 1.5%	< 0.17%
Isobutane	< 3%	< 0.4%
n-Butane	< 2%	< 0.1%
Neopentane		
Isopentane	< 0.1%	< 100ppm
n-Pentane		
1,3 Butadiene	< 100ppm	< 1ppm
Sulphur	< 1ppm	< 1ppm
Moisture	< 10ppm	< 10ppm

## Standard Container Size and Fill Volumes

Container Information				
Type	L454 Cylinder	20' T50 ISO Container	40' T50 ISO Container	Road Trailer
Contents	222.4 kg	10,600 kg	17,300 kg	17,450 kg

\*Railcars also available (US only). Please contact us for details

## Technical Information

Technical Data		Shipping Information	
Molecular Weight (g/mol)	44.096	Shipping Name	Propane
Liquid Density (kg/m <sup>3</sup> )	582	Hazard Class	2.1
Gas Density (kg/m <sup>3</sup> )	1.91	UN No.	UN 1978
Boiling point (°C)	-42.1	Hazard Label	Flammable Gas

Specific Volume (m <sup>3</sup> /kg)	0.543	CAS No.	74-96-6
Vapour Pressure (bar.a @ 20°C)	8.7		
Valve Outlet	Cylinder – CGA 510, T50 - ACME, MALE. 1 3/4" gas phase / 3 1/4" liquid phase		