

IsoButane (R600a)







Isobutane (R600a) 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 widely used due to its low environmental impact and excellent thermodynamic performance and it is the refrigerant gas of choice in domestic and small commercial refrigerators outside of the USA. It also has applications as a heat transfer fluid in the geothermal industry.

Standard Specification

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

Purity / Assay	N1.8	N2.5
Impurities (mol)	98%	99.5%
IsoButane	> 98%	> 99.5%
n-Butane	< 1.0%	< 0.2%
Propane	< 1.0%	< 0.3%
Methane	< 0.1%	< 100ppm
Ethane	< 0.1%	< 100ppm
Isopentane	< 0.1%	< 10ppm
n-Pentane	< 0.1%	< 10ppm
Sulfur	< 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	11,450 kg	18,650 kg	18,800 kg

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

Technical Information

Technical Data		Shipping Information	
Molecular Weight (g/mol)	58.123	Shipping Name	Isobutane
Liquid Density (kg/m ³)	593.4	Hazard Class	2.1
Gas Density (kg/m ³)	2.51	UN No.	UN 1969
Boiling point (°C)	-11.7	Hazard Label	Flammable Gas

Specific Volume (m ³ /kg)	0.406	CAS No.	72-28-0
Vapour Pressure (bar.a @ 20°C)	2.13		
Valve Outlet	Cylinder – CGA 510, T50 - ACME, MALE. 1 ¼" gas phase / 3 ¼" liquid phase		
