AIR LIQUIDE

I-C_4H_{10}

Air Liquide gases encyclopedia – pages 705 to 712

Air Liquide delivers Isobutane in Europe and all around the world, in packages adapted to each customer.

General information

Official designation: Isobutane
Colorless - Odorless
Non corrosive

Applications

In mixture with argon, isobutane is used in Geiger counter and for the detector in X Ray Fluorescence (XRF) as quentching gas.
Isobutane is also used as reagent gas in chemical ionization mass spectrometry.
In mixture with other hydrocarbons, isobutane is used as reference point in calorimetric measurements for the measurement of PCI of hydrocarbons or coal.
Isobutane is used in calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.
Isobutane is used as a propellant, a solvent or a refrigerant.

Safety Data Sheet

Reference EIGA075, available on our website www.airliquide-benelux.com

Physical properties

Molecular weight:	58, 122 g / mol
Relative density, gas:	2
Relative density, liquid:	0, 59
CAS N°:	75-28-5

Transport information

ONU N°	1969 – Isobutane
ADR/RID	Class 2.1
ADR sticker	2.1- flammable gas

Product specifications – in mol ppm (gas phase)

Product	Isobutane	I-C4H10	I-C4H10
Quality		N25	N35
Purity		99,50%	99,95%
Impurities	H2O	50,0 ppm	5,0 ppm
	O2	200,0 ppm	10,0 ppm
	CO2	50,0 ppm	5,0 ppm
	H2	100,0 ppm	40,0 ppm
	N2	800,0 ppm	40,0 ppm
	CnHm	3800,0 ppm	400,0 ppm

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