



VIN-FP-530/003

climalife[®]

R-600a

Isobutane C₄H₁₀

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition :	
Isobutane	≥ 99,5 % Volume
Propane	≤ 0,40 % Volume
n-butane	≤ 0,25 % Volume
Unsaturated C4	≤ 0,01 % Volume
Odour	none
Water content	≤ 12 ppm weight

MAIN APPLICATIONS

High purity Iso-butane (R-600a) is required for refrigeration applications. It is a hydrocarbon (HC) which is mainly used in domestic refrigeration applications.

OILS

Use a mineral oil (MO), alkylbenzene (AB) or poly alpha olefin (PAO).

Check with **Climalife** regarding the viscosity of the oil selected for your application, and the miscibility with the fluid under consideration.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet*.

REGULATION

R600a is classified as an extremely flammable product (A3)

Refer to the ERP of 14th February 2000 published in the Official Journal of 21st March 2000.

(Refer to regulations enforced in each country)

* Find the Safety Data Sheet (SDS) directly on our website www.climalife.dehon.com



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R-600a PHYSICAL PROPERTIES

Molar Mass	g/mol	58,12
Melting Point	°C	-159.38
Boiling point (at 1.013 bar)	°C	- 11.76
Temperature drop below 1.013 bar	K	0
Density of the saturated liquid at 25°C	kg/m ³	551
Steam density at boiling point	kg/m ³	2.826
Vapour pressure at :		
25°C	bar	3.51
50°C		6.85
Critical Temperature	°C	134.7
Critical Pressure	bar	36.29
Critical Density	kg/m ³	225
Latent heat of vaporisation at boiling point	kJ/kg	365.11
Thermal conductivity at 25°C		
Liquid	W/(m.K)	0.089
Steam under 1.013 bar		0.017
Surface tension at 25°C	10 ⁻³ N/m	10.00
Viscosity at 25°C		
Liquid	10 ⁻³ Pa.s	0.151
Steam under 1.013		0.007
Specific heat at 25°C		
Liquid	kJ/kg.K	2.430
Steam under 1.013		1.692
Cp/Cv ratio at 25°C below 1.013 bar		1.105
Flammability in air		Inflammable
Flash point	°C	-87
Classification		
NF-EN 378		A3
ASHRAE 34		A3
Ozone Depletion Potential	(R11 = 1)	0
GWP	(CO ₂ = 1)	3/3
According to IPCC-AR4/IPCC-AR5		

Les renseignements contenus dans cette fiche produit sont les résultats de nos études et de notre expérience. Ils sont donnés de bonne foi, mais ne peuvent en aucun cas constituer de notre part une garantie, ni engager notre responsabilité, particulièrement en cas d'atteinte aux droits des tiers, ni en cas de manquement des utilisateurs de nos produits aux réglementations en vigueur les concernant.

Please contact your distributor or our **Climalife** sales department for more information. In addition, if the refrigeration system you want to install, or are working on, does not appear to be a typical installation, please do not hesitate to contact us for advice and information.

Pour toute information complémentaire, consultez notre site internet :



http://www.climalife.dehon.com/contact_us