

# FLUOROCARBON

## R142b



**Manufacturer:**

**“HaloPolymer Kirovo-Chepetsk”, LLC**

QMS for production is certified: ISO 9001:2015

Certificate Registration No.: 12 100 55860 TMS

<b>Synonyms:</b>	Chlorodifluoroethane; 1-Chloro-1,1-difluoroethane; HCFC-142b
<b>Chemical formula:</b>	$C_2H_3ClF_2$
<b>CAS Number:</b>	75-68-3
<b>EC Number:</b>	200-891-8
<b>HS code:</b>	2903740000



Colorless gas with slight smell. Melting point is -130.8°C, boiling point is 9.2°C, density of the liquid product at the temperature of 20°C is 1113 kg/m<sup>3</sup>, saturated vapor pressure at 20°C is 0.2904 MPa.

PARAMETER	UNIT	TYPICAL VALUE	TEST METHOD
Volume fraction of 1,1-difluoro 1-chloroethane	%, min	99.95	Gas chromatography
Volume fraction of 1,1,1-trifluoroethane	%, max	0.01	Gas chromatography
Volume fraction of fluorochlorovinylidene	%, max	0.01	Gas chromatography
Volume fraction of 1,1-difluoroethane	%, max	0.015	Gas chromatography
Volume fraction of 1-fluoro 1,1-dichloroethane	%, max	0.01	Gas chromatography
Volume fraction of chloroethane	%, max	0.02	Gas chromatography
Volume fraction of other impurities determined by chromatographic method (each)	%, max	0.01	Gas chromatography
Volume fraction of oxygen in gas phase	%, max	0.03	Colorimetry
Mass concentration of water, max	mg/kg	40	Dielcometry
Mass concentration of nonvolatile residue, max	mg/kg	30	Titrimetry

*For detailed specification please contact the Commercial Department.*

*The parameters are indicated according to Technical Specifications (TU), because the manufactured products are analyzed in accordance with TU (internal company standard). The procedure of sample preparation differs from that in ASTM, ISO, DIN.*

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## Main applications:

The product is used as a refrigerant, solvent, porophore and raw material for fluoroorganic synthesis.



## Package:

The product is poured into tanks, other sealed steel packing (cylinders with the capacity of 12 to 40 dm<sup>3</sup>, containers with the capacity of up to 950 dm<sup>3</sup>), ensuring operational safety at excessive pressure. It is possible to fill the product into customer's packing ensuring safety while transporting and storing the product.



## Transportation

The product shall be transported in covered trucks (containers), tanks and tanks resistant to the transported product by railway, motor, marine transport in accordance with the dangerous goods regulations valid for this type or transport.



## Safety and Handling:

The product shall be stored in sealed stainless steel containers. Keep the material away from heat, sparks, flame and other heat and ignition sources. The storage facility shall be dry, cool, well-ventilated. The recommended storage temperature is 25°C.

**Before using the product please read the Material Safety Data Sheet carefully.**



## Guarantee storage life:

Guaranteed shelf life is 24 months from the date of manufacture.