Products for rescue, health and beauty

HaloPolymer

HaloPolymer

JOINT STOCK COMPANY
«HaloPolymer»

Wide range of application

- Perfluorinated substitutes of blood
- Perfluorinated ingredients for cosmetic
- Fluoroorganic medicines for burns treatments
- Fluoroorganic liquids for ophthalmological surgery

Due to unique complex of chemical and physical properties fluoroorganic compounds are found widely used in different spheres of medicine and cosmetology.

Medicines based on fluoroorganic compounds are demonstrate unique effectiveness in comparison with hydrocarbon analogies.

At present time our company produce several types of fluoroorganic substances for medical and cosmetology applications.

We have long time experience in production of fluoroorganic substances and can guarantee high and stable quality of our products.

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Fluid KARBOHAL

Perfluoro-1,3-dimethylcyclohexane, PFDMCH

CAS 335-27-3

Chemical formula: C_8F_{16}

Description: Colorless transparent liquid without mechanical impurities. Not toxic, biologically and chemically inert substance. Not flammable and not explosive. Is insoluble in most organic solvents.

Application: Base component of medicines for burns treatment. Can be used for treatment of thermal, chemical and solar burns. Efficiency of treatment increasing by 50-60% in comparison to non-fluorinated medicines.

Parameters	Units	Value
Mass content of base material (min)	%	99*
Oxygen solubility	% (Vol.)	54
Boiling point	°C	102
Thermal stability	°C	440
Density	g/cm^3	1,85
Dynamic viscosity	mPa*s	1,92
Kinematic viscosity	cSt	1,1
Refractive index	-	1,2895

** By individual order can be provided purity of the product more than 99%.*

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Fluid PFD

Perfluorodecaline, Perflunafene

Chemical formula: $C_{10}F_{18}$

CAS 306-94-5

Description: Colorless transparent liquid Not toxic, biologically and chemically inert substance. Not flammable and not explosive. Is insoluble in most organic solvents.

Application: Used as base component of artificial blood, medicines for burns treatment, ingredient of cosmetics and fluids for ophthalmology surgery. It has also used in medicine for partial liquid ventilation.

Parameters	Units	Value
Mass content of base material (min)	%	93-95*
Oxygen solubility	% (Vol.)	51
Boiling point	°C	142
Thermal stability	°C	450
Density	g/cm^3	1,94
Dynamic viscosity	mPa*s	5,1
Kinematic viscosity	cSt	2,7
Refractive index	-	1,3130

** By individual order can be provided purity of the product more than 95%.*

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Fluid PFH

Perfluorohexane, Tetradecafluorohexane

Chemical formula: C_6F_{14}

CAS 355-42-0

Description: Transparent, colorless liquid. Not toxic, biologically and chemically inert substance. Not flammable and not explosive.

Application: Used in medicine for partial liquid ventilation. liquid breathing could assist in the treatment of patients with severe pulmonary or cardiac trauma, especially in pediatric cases. Liquid breathing has also been proposed for use in deep diving and space travel.

Parameters	Units	Value
Mass content of base material (min)	%	98,5
Mass content of water (max)	%	0,01
Boiling point	°C	57*
Melting point	°C	-82*
Density	g/cm^3	1,67*
Surface tension	mN/m	11,3*
Molecular weight	-	338,04*
Refractive index	-	1,252

** by literature data*

HaloPolymer

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Fluid PFO

Perfluorooctane, Octadecafluorooctane

Chemical formula: C8F18

CAS 307-34-6

Description: Transparent, colorless liquid. Not toxic, biologically and chemically inert substance. Not flammable and not explosive.

Application: Used as base component of medicines for ophthalmology surgery. The main functions of perfluorocarbon liquids in vitreoretinal surgery include relocating and fixing the detached retina, displacing the subretinal and subchoroidal to fluid anteriorly, revealing proliferative vitreous retinopathy (PVR) for further maneuvers, protecting the macula from exposure to chemicals with potential toxicity, and assisting the removal of foreign body.

Parameters	Units	Value
Mass content of base material (min)	%	99
Solubility of oxygen (min)	% (Vol.)	43*
Boiling point	°C	104
Melting point	°C	-25*
Density	g/cm^3	1,77*
Dynamic viscosity	mPa*s	1,4*
Molecular weight	-	438,06
Refractive index	-	1,255

** by literature data*

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PFH, PFO

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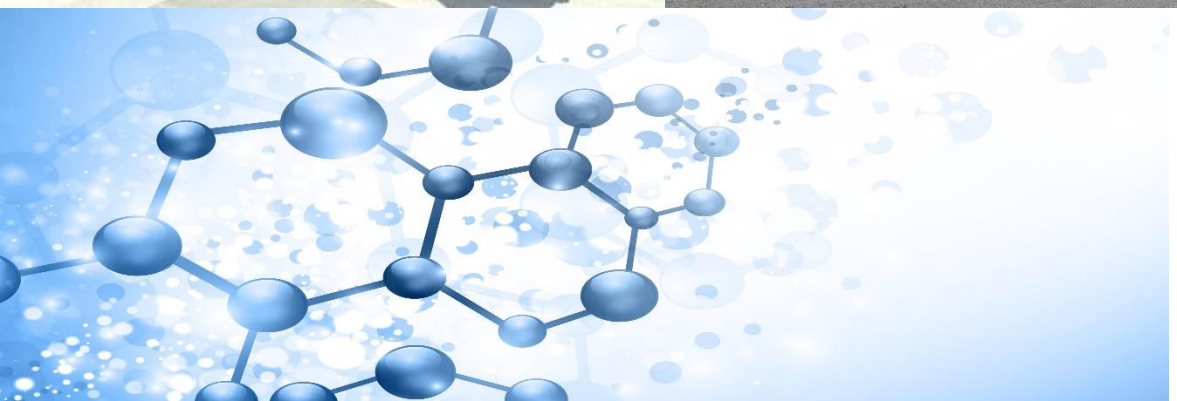

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