

PERFLUORO-1,3-DIMETHYLCYCLOHEXANE



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC
QMS for production is certified: ISO 9001

CHEMICAL NAME:	1,1,2,2,3,3,4,5,5,6-Decafluoro-4,6-bis(trifluoromethyl)cyclohexane
SYNONIM:	Perfluoro-1,3-dimethylcyclohexane
TRADE NAME:	Carbohal
CHEMICAL FORMULA:	C₈F₁₆
CAS N°:	335-27-3
EC N°:	206-386-9

Carbohal is a colorless, transparent liquid without mechanical impurities. It is a non-flammable, nonexplosive substance. It does not form toxic compounds in the air and waste waters.



PHYSICAL-CHEMICAL PROPERTIES

PARAMETERS	UNITS	VALUE
Mass fraction of carbohal (1,1,2,2,3,3,4,5,5,6-Decafluoro-4,6-bis(trifluoromethyl)cyclohexane), min	%	99
Mass concentration of splitted fluoride-ion, max	mg/dm ³	60
Break-down voltage, min	kV	45
Break-down voltage	MV/m or kV/mm	18
Crystallizing point	°C	-70
Boiling point	°C	102
Density at the temperature 20°C	kg/m ³	1850
Solubility in water	-	It doesn't dissolve
Solubility in other solvents	-	It doesn't dissolve in organic solvents, but mixes with fluorocarbon liquids and freons unrestrictedly
Resistance to materials	-	It is resistant to polymeric materials and metals, doesn't cause their corrosion
Relative molecular mass	-	400,062

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www.halopolymer.com



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Main application:

Carbohal is used as a heat carrier in high-voltage radio- and electrical equipment, as a low-temperature dielectric, as an inert solvent and for burn-treatment.



Package:

Carbohal is filled in polyethylene canisters with a capacity of 5 dm³ or other hermetical unbreakable containers with a capacity of to 10 dm³. Containers for filling have to be clean, dry, hermetical. The neck of container may be sealed with FUM tape.



Transportation and storage:

Carbohal is transported by any kind of covered transport. Carbohal must be kept in containers of the supplier in dry storage room at ambient temperature. Guaranteed storage time is 3 years from the date of production.