

CTFE

CHLOROTRIFLUOROETHYLENE



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC

CHEMICAL NAME:	Chlorotrifluoroethylene
TRADE NAME	CTFE (Monomer-3)
SYNONYMS:	1-chloro-1,2,2-trifluoroethene; trifluorochloroethylene; trifluorochloro-ethylene; R1113
CHEMICAL FORMULA:	C₂ClF₃
CAS:	79-38-9
EC:	201-201-8

Chlorotrifluoroethylene is a colorless gas without smell, flammable, explosive. Self-ignition point is 600°C. It decomposes forming highly toxic products in contact with flame and hot surfaces.



PROPERTIES	UNITS	VALUE	
		Grade 1	Grade 2
Volume fraction of chlorotrifluoroethylene, min	%	99,98	
Volume fraction of tetrafluoroethylene and ethylene in total, max	%	0,00015	0,0002
Volume fraction of vinylidene fluoride, max	%	0,0002	0,00025
Volume fraction of acetylene and fluorovinyl (1-fluoroethylene), max	%	0,00005	0,00005
Volume fraction of perfluorobutyne-2, max	%	0,0002	0,0003
Volume fraction of trifluoroethylene, max	%	0,0007	0,0008
Volume fraction of 1,1-difluorochloroethylene, max	%	0,003	0,005
Volume fraction of 1,1,2,2-tetrafluoro-1,2-dichloroethane, max	%	0,0003	0,0003
Volume fraction of other impurities, max	%	0,001	0,001
Volume fraction of oxygen, max	%	0,002	0,002
Boiling point	°C	-27	
Melting point	°C	-158	
Relative molecular mass	-	116,47	
Density at the temperature 20°C	g/cm ³	1,289	
Acidity	%	< 0,0005	
Humidity	%	< 0,005	

MONOMER-3 CHLOROTRIFLUOROETHYLENE



Main application:

Chlorotrifluoroethylene is intended for production of various polymers and copolymers, and various fluoroorganic compounds.



Package:

Stainless steel containers under pressure.



Transportation and storage :

Chlorotrifluoroethylene is transported by land or sea transport. It is stored far from heat and sources of ignition, in a well-ventilated place, in a cool place protected from sunlight, far from combustible materials and incompatible products, only in the container of the factory-producer at the temperature no more than 50°C.