MONOMER-2
VINYLIDENE FLUORIDE

HaloPolymer
www.halopolymer.com

Manufacturer:
“HaloPolymer Kirovo-Chepetsk”, LLC

CHEMICAL NAME: 1,1-difluoroethylene
TRADE NAME: 1,1-difluoroethylene
SYNONYMS: Monomer-2; 1,1-difluoroethylene; vinylidene fluoride; VDF
CHEMICAL FORMULA: $CF_2 = CH_2$
CAS №: 75-38-7
EC №: 200-867-7

Vinylidene fluoride is a colorless gas with slight specific smell. It is a flammable, explosive substance. Upon contacting with flame and hot surfaces, vinylidene fluoride decomposes forming highly toxic products.

PROPERTIES	UNITS	VALUE
Volume fraction of vinylidene fluoride (1,1-difluoroethylene), min	%	99,97
Volume fraction of 1,1,1-trifluoroethane, max	%	0,0002
Volume fraction of fluorochlorovinylidene, max	%	0,0003
Volume fraction of trifluoromethane, max	%	0,002
Volume fraction of tetrafluoroethylene, max	%	0,007
Volume fraction of trifluoroethylene, max	%	0,0003
Volume fraction of fluoroethylene, max	%	0,01
Volume fraction of difluoromethane, max	%	0,01
Volume fraction of each of other impurities defined by chromatographic method on calibrating plot for fluorochlorovinylidene, max	%	0,0003
Volume fraction of oxygen, max	%	0,002
Volume fraction of compounds acetilyde, max	%	0,0002
Boiling point	°C	- 83,7
Melting point	°C	-144
Critical temperature	°C	30,1

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PROPERTIES	UNITS	VALUE
Critical pressure	MPa	4,428
Critical density	kg/m³	417
Density of liquid product (25°C)	kg/m³	585
Saturated vapour pressure (17°C)	MPa	3,33
Relative molecular mass	-	64,035

Main application:
Vinylidene fluoride is used to produce polymeric materials and as raw material for organic syntheses.

Package:
Cylinders under pressure.

Transportation and storage :
Vinylidene fluoride is transported by any kind of transport. It is stored far from sources of heat, sparks, open flame, hot surfaces in well-ventilated, dry, cool place shielded from sun rays.

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