P&M-Invest Ltd.
Contact to: http://www.fluorine1.ru
Tel: +7 (499)135-64-94, Fax: +7 (499)135-65 -09
E-mail: igumnov@fluorine1.ru

1,1-Difluoro-2-iodoethylene

(abb;IDFE)

CF_2=CHI

Purity	97%
CAS Number	2925-16-8
Molecular Formula	C2HF2I
Molecular Weight	189.93
Application	Cross-linking monomer for high-speed peroxide curable fluoroelastomer. Less gelling, excellent vulcanization speed, heat aging resistance (softening deterioration), compression set, and injection processability.

CH2=CF2/CF2=CF2/CF2=CFCF3 + I(CF2)4I +CF2=CHI ⟶
I-C4F8-(CH2CF2)m-(CF2CF2)n-(CF2CF(CF3))p-(CF2CHI)q-I

VDF/TFE/HFP(62/16/22)Terpolymer（Ref.Ex；65/18/17）properties

	Example	Comp.Ex	Reference Ex
IC4F8I (phm)	0.8	1.1	CF2=CFCF2CFICF2CI
IDFE(phm)	0.6	0	0.3
Original properties			
Hs(pts)	72	72	75
TB(MPa)	23.9	21.2	28.5
EB(%)	220	320	270
Heat aging (200℃＊70hr)			
ΔTB(%)	-18	-38	-
ΔEB(%)	+26	+53	-
Compression set ((200℃＊70hr)	25%	33%	-
Flow (cm3/sec)	$2.0*10^{-3}$	$0.9*10^{-3}$	Gel

US 5,898,054, US 4,243,770

Properties:	
Appearance	-
Boiling point, °C	40-41
Flash point,°C	
Capacity:	30kg/month
Packing:	-
UN, PG:	-