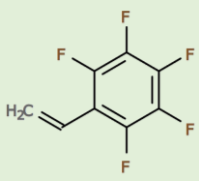
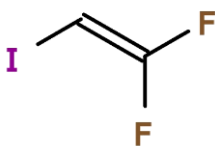
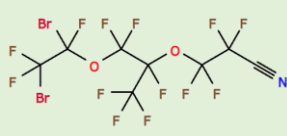
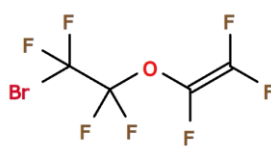
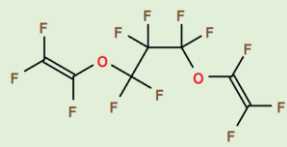
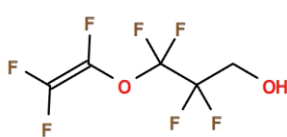
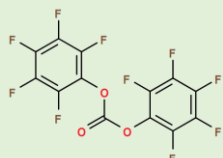
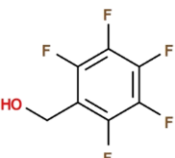
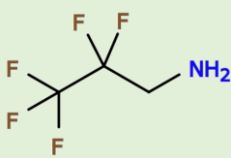
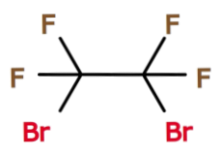
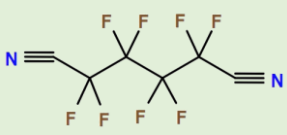
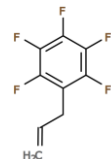
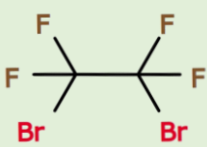
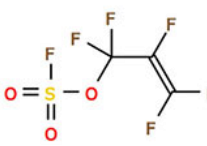


## [Classification by use]

### 3-1. Functional monomer and crosslinking agent

No.	Chemical formula (Classification)	Name	CAS No.	Remarks
1	 $C_6F_5CH=CH_2$ (Benzene derivative)	<b>2,3,4,5,6-Pentafluoro styrene</b>	<b>653-34-9</b>	Pentafluorostyrene copolymer raw material characterized by the click-reaction with thiols.
2	 $CF_2=CHI$ (Alkene)	<b>1,1-Difluoro-2-iodoethylene</b>	<b>2925-16-8</b>	High-speed peroxide cure fluoroelastomer crosslinking monomer.
3	 $CF_2BrCFBrO-CF_2CF(CF_3)OCF_2CF_2CN$ (Ether)	<b>8,9-Dibromo-Perfluoro(5-methyl-4,7-dioxanonanenitrile)</b>		Crosslinking monomer of heat resistant perfluoroelastomer; Prefluoro(cyanovinyl ether) monomer precursor. Good long-term storage stability, small inhibition at polymerization by isomers.
4	 $CF_2=CFOCF_2CF_2Br$ (Ether)	<b>2-Bromotetrafluoroethyl trifluorovinyl ether</b>	<b>85737-06-0</b>	Crosslinking monomer for peroxide curable fluoroelastomer. Excellent copolymerizability, homogeneous distribution.
5	 $CF_2=CFOCF_2CF_2CF_2O-CF=CF_2$ (Ether)	<b>Perfluoro(1,3-bis(vinyloxy)propane)</b>	<b>13846-22-5</b>	Peroxide curable perfluoroelastomer crosslinking monomer.

6	 <p><b>CF<sub>2</sub>=CFO- CF<sub>2</sub>CF<sub>2</sub>CH<sub>2</sub>OH</b> (Ether)</p>	<b>2,2,3,3-Tetrafluoro-3-(1,2,2-trifluoroethoxy)-propan-1-ol</b>	<b>136403-80-0</b>	Linear perfluoropolyether raw material, for fingerprint preventive coating.
7	 <p><b>C<sub>6</sub>F<sub>5</sub>OCOCOC<sub>6</sub>F<sub>5</sub></b> (Benzene derivative)</p>	<b>Bis(pentafluorophenyl) carbonate</b> (abb. PFPC)	<b>59483-84-0</b>	Raw material monomer for functional polycarbonate that attracts attention as a material for drug delivery systems.
8	 <p><b>C<sub>6</sub>F<sub>5</sub>CH<sub>2</sub>Br</b> (Benzene derivative)</p>	<b>2,3,4,5,6-Pentafluorobenzyl bromide</b>	<b>1765-40-8</b>	GC analysis of trace amino acids and oligopeptides using a simple chemical modification method.
9	 <p><b>CF<sub>3</sub>CF<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub></b> (Amine)</p>	<b>2,2,3,3,3-Pentafluoropropylamine</b>	<b>422-03-7</b>	Short-chain Rf amide groups can provide high solvent permeation flow rate and excellent solute blocking performance in organic solvent permeable reverse osmosis membranes.
10	 <p><b>BrCF<sub>2</sub>CF<sub>2</sub>Br</b> (Alkane)</p>	<b>1,2-Dibromotetrafluoroethane</b>	<b>124-73-2</b>	A method for synthesizing bis(trifluorovinyl ether)-based compounds from general-purpose 1,2-dibromotetrafluoroethane and a polymerization method by cyclodimerization.
11	 <p><b>NC(CF<sub>2</sub>)<sub>4</sub>CN</b> (Carboxylic acid and derivative)</p>	<b>Octafluoroadipodinitrile</b> (abb. OFAN)	<b>376-53-4</b>	Aromatic bisamiderazone crosslinking agents were investigated to improve the heat resistance of conventional cyano group-containing heat-resistant perfluoroelastomers and aromatic bisaminophenol crosslinked systems.
12	 <p><b>CH<sub>2</sub>=CHCH<sub>2</sub>C<sub>6</sub>F<sub>5</sub></b> (Benzene derivative)</p>	<b>Allyl pentafluorobenzene</b> (abb.APFB)	<b>1736-60-3</b>	We investigated the plasma polymerization of APFB on PI film in detail, and obtained a coating film with a fluorine content equivalent to that of pentafluorostyrene. It also showed much better heat resistance than pentafluorostyrene.

13	 <p><b>BrCF<sub>2</sub>CF<sub>2</sub>Br</b> (Carboxylic acid and derivative)</p>	<p><b>1,2- Dibromotetrafluoroethane</b></p>	<p><b>124-73-2</b></p>	<p>The O<sub>2</sub>-free synthesis of TFE by debromination of 1,2-dibromotetrafluoroethane. Furthermore, cyanotetrafluoropropionate with high industrial added value was obtained from TFE.</p>
14	 <p><b>CF<sub>2</sub>=CF CF<sub>2</sub>OSO<sub>2</sub>F</b> (Carboxylic acid and derivative)</p>	<p><b>Pentafluoroallyl fluorosulfate (abb. FAFS)</b></p>	<p><b>67641-28-5</b></p>	<p>We have proposed a simple synthesis method for vinyl monomers with two carboxyl groups. This is expected to improve the mechanical properties and ionic conductivity of electrolyte polymers.</p>

\* Please contact us for product details.