

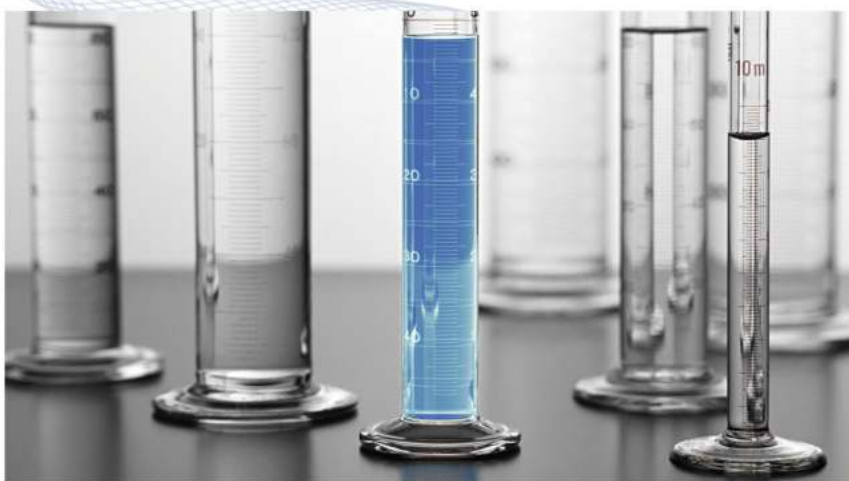


YUJI America Corp.

—Fluorine Chemicals Partner for Your Business



ABOUT US



Yuji was established in 2005 by a team of doctoral experts who have long been dedicated to the R&D and industrialization of fluorine-containing next generation materials with the goal of supporting industries and society with environmentally sustainable products. Today, Yuji is recognized as an innovation leader operating multiple research centers and manufacturing sites in China and Japan; and offers wide range of chemical products for diverse industries like electronics, material processing, HVAC, electric power, construction material, specialty chemical industry, etc. As an innovation partner in fluorine chemistry, Yuji is actively engaging in R&D collaboration with industries and research institutes for the industrialization of innovative science & technologies.

Yuji's main products cover new generation solvents cleaning agents, refrigerants, blowing agents, aerosol propellants, fire extinguishing agents, electronic gases, electric power fluorinated materials, fluorinated fluids, lithium-ion battery chemicals, fluorinated pharmaceutical intermediates, fluorinated pesticide intermediates, and so on.

MISSION

Yuji America Corp is the exclusive North America and global distributor of Yuji's fluorochemicals produced by the state-of-the-art chemistry. Yuji America also specializes in sourcing variety of chemicals from other competitive producers in China and Japan offering our customers cost savings that positively impact customer's bottom line.

Product Series

Yuji Tech has many ODS alternatives and fluorinated fine chemicals, which are widely used in the fields of refrigeration, foaming, aerosols propellants, firefighting, industrial cleaning, semiconductor, electric power, pharmaceuticals, pesticides, etc. We have customers from mainland China to Europe, America, Japan, Korea, Southeast Asia, etc.

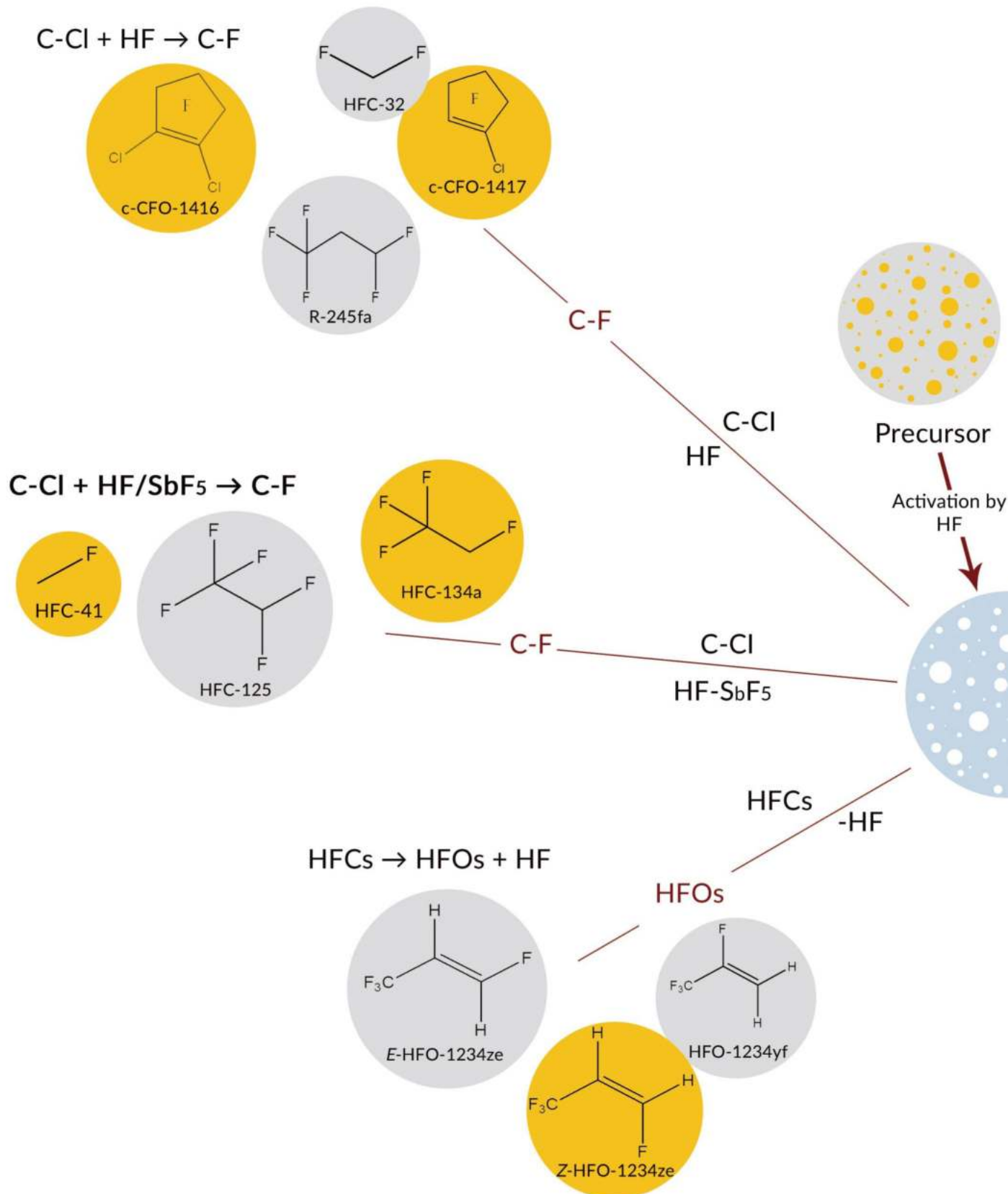
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Business Scope

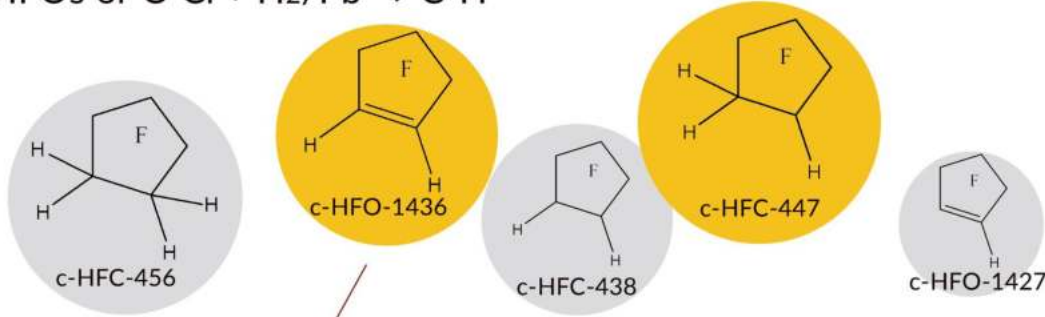
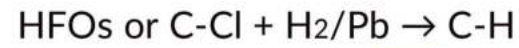


Core Technologies in Fluorine Chemistry

With global leading R&D capability, Yuji develops and industrializes



utilizes gas phase process using its patented catalysts.

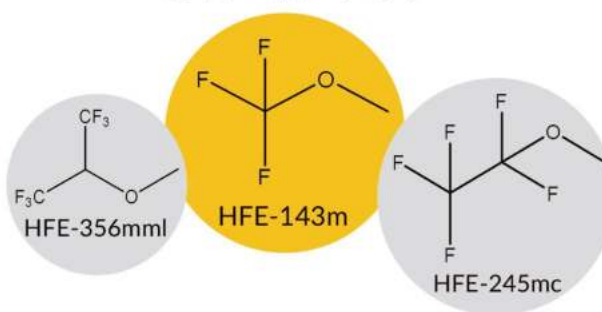
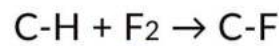


C-H



C*-F

C-F



C-H

F₂

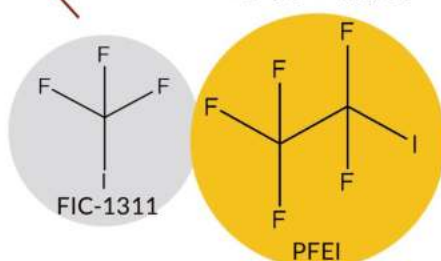
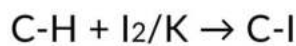
C-F

PMF

C-H

I₂

C-I



Hydrofluoroolefins (HFOs)

Product Name	CAS NO.	Packaging Size
HFO-1233zd(E) Trans-1-Chloro-3,3,3- Trifluoropropene	102687-65-0	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK
HFO-1233zd(Z) Cis-1-Chloro-3,3,3- Trifluoropropene	99728-16-2	Drums: 25kg,250kg
HFO-1234ze(E) Trans-1,3,3,3- Tetrafluoropropene	29118-24-9	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK
HFO-1234ze(Z) Cis-1,3,3,3- Tetrafluoro-1-Propene	29118-25-0	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK
HFO-1336mzz(E) Trans-1,1,1,4,4,4- Hexafluoro-2-Butene	66711-86-2	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK
HFO-1336mzz(Z) Cis-1,1,1,4,4,4- Hexafluoro-2-Butene	692-49-9	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK
HFO-1234yf 2,3,3,3- Tetrafluoropropene	754-12-1	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK
HFO-1233xf 2-Chloro-3,3,3- Trifluoropropene	2730-62-3	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK
HFO-1243zf 3,3,3-Trifluoropropene	677-21-4	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK

Hydrofluoroethers (HFEs)

Product Name	CAS NO.	Packaging Size
HFE-347 1,1,2,2-Tetrafluoroethyl-2, 2,2-Trifluoroethyl Ether	406-78-0	Drums: 25kg,250kg
HFE-458 1,1,2,2-Tetrafluoroethyl-2,2,3,3-Tetrafluoropropylether	16627-68-2	Drums: 25kg,250kg
HFE-374 Ethyl 1,1,2,2-Tetrafluoroethyl Ether	512-51-6	Drums: 25kg,250kg
HFE-6512 1H,1H,5H-Perfluoropen-Tyl-1,1,2,2-Tetrafluoroethylether	16627-71-7	Drums: 25kg,250kg
HFE-254 1,1,2,2-Tetrafluoroethyl Methyl Ether	425-88-7	Drums: 25kg,250kg
Methyl Nonafluorobutyl Ether	163702-07-6	Drums: 25kg,250kg
Methyl Perfluorobutyl Ether	163702-08-7	Drums: 25kg,250kg
Ethyl Perfluorobutyl Ether	163702-06-5	Drums: 25kg,250kg
Ethyl Nonafluorobutyl Ether	163702-05-4	Drums: 25kg,250kg

Fire Extinguishing Agents

Our products are mainly used as Halon alternatives for clean fire extinguishing in special places, such as floating roof tank, military and civil aerospace vehicles/ships, engine rooms, cabins and libraries, etc.

Product Name	CAS NO.	Packaging Size	Applications
CF3I Trifluoroiodomethane	2314-97-8	10kg/20kg Disposable Cylinders 1000kg Refillable Cylinders 18T ISO TANK	New Environmentally Friendly And Clean Fire Extinguishing Agent With Very Low GWP Value; Used As A Substitute For Halon Products.
FK-5-1-12 Perfluoro(2-Methyl-3-Pentanone)	756-13-8	Drums: 25kg,250kg	New Environmentally Friendly Clean Fire Extinguishing Agent; Used To Replace Halon, HFC And PFC Series Of Fire Extinguishing Agents.
HFC-236fa 1,1,1,3,3,3-Hexafluoropropane	690-39-1	13.6kg/22.7kg Disposable Cylinders 1000kg Refillable Cylinders 20T ISO TANK	Suitable For Filling Portable Fire Extinguishing Equipment Full Flooding Fire Extinguishing System.
HC-227ea 1,1,1,2,3,3,3-Heptafluoropropane	431-89-0	13.6kg/22.7kg Disposable Cylinders 1000kg Refillable Cylinders 20T ISO TANK	Used For Chemical Fire Extinguishing And Physical Fire Extinguishing, With A High Fire Extinguishing Efficiency.
2-BTP 2-Bromo-3,3,3-Trifluoropropene	1514-82-5	Drums: 25kg,250kg	Used As A Substitute For Halon Fire Extinguishing Agent Products And A Raw Material For Pharmaceutical Synthesis.

Cleaning Agents

As substitutes for HCFC-141b and HCFC-225, our cleaning agents are used for electronics, metal, precision cleaning and other cleaning fields, and can be used as solvent or in solvent compounding.

Product Name	CAS NO.	Packaging size	Applications
HFO-1233zd(Z) Cis-1-Chloro-3,3,3-Trifluoropropene	99728-16-2	Drums:20kg,210kg	Low GWP, No Flash Point, Non-flammable; Used For Replacing HCFC-141b And HCFC-225 In The Cleaning Field.
InnoFluo Series Cleaning Agents	Blends	Drums:20kg,210kg	Low GWP Cleaning Agent For Precision Metals, Medical Devices, Precision Optics, Precision Electronics And Other Products
InnoFluo Series Silicone Oil Diluent	Blends	Drums:20kg,210kg	An Ideal Substitute For HCFC-141b And HCFC-225 Diluent Widely Used In The Disposable Medical Device Industry.

Electronic Gases

Yuji supports semiconductor industry with chamber cleaning gas and plasma etching gas for high aspect ratio etching process.

Product Name	CAS NO.	Molecular Formula	Purity
Hexafluoro-1,3-Butadiene	685-63-2	C ₄ F ₆	99%~99.99%
Methyl Fluoride	593-53-3	CH ₃ F	99%~99.99%
Difluoromethane	75-10-5	CH ₂ F ₂	99.99%
Trifluoromethane	75-46-7	CHF ₃	99.99%
Tetrafluoromethane	75-73-0	CF ₄	99.99%
Trifluoroiodomethane	2314-97-8	CF ₃ I	99%~99.99%
Pentafluoroethane	354-33-6	C ₂ H ₅	99.99%
Hexafluoroethane	76-16-4	C ₂ F ₆	99.99%
Hexafluoropropylene	116-15-4	C ₃ F ₆	99.99%
1,1,1,3,3,3-Hexafluoropropane	690-39-1	C ₃ H ₂ F ₆	99.99%
1,1,1,2,3,3-Hexafluoropropane	431-63-0	C ₃ H ₂ F ₆	99.99%
Octafluoropropane	76-19-7	C ₃ F ₈	99.99%
Octafluorocyclobutane	115-25-3	C ₄ F ₈	99.99%
Trans-1,1,1,4,4,4-Hexafluoro-2-Butene	66711-86-2	C ₄ H ₂ F ₆	99%~99.99%
Hexafluoroisobutylene (HFIB)	382-10-5	C ₄ H ₂ F ₆	99.99%

Electric Fluorine Materials

Yuji supports semiconductor industry with chamber cleaning gas and plasma etching gas for high aspect ratio etching process. The SF6 replacement products developed by the company for the power industry have been widely used in insulation and interrupting.

Product Name	CAS No.	Packaging Size	Applications
C4F7N Perfluoroisobutyronitrile	42532-60-5	10L/47L Cylinder	Low GWP; Sustainable Alternative To Sulfur Hexafluoride (SF6) For Electrical Equipment Insulation And Arc Quenching Applications
C5F10O Perfluoro 3-Methyl-2-Butanone	756-12-7	10L/47L Cylinder	Low GWP; Sustainable Alternative To Sulfur Hexafluoride (SF6) For Electrical Equipment Insulation And Arc Quenching Applications
C6F12O Perfluoro 2-Methyl-3-Pentanone	756-13-8	10L/47L Cylinder	Low GWP; Sustainable Alternative To Sulfur Hexafluoride (SF6) For Electrical Equipment Insulation And Arc Quenching Applications
CF3I Trifluoroiodomethane	2314-97-8	10L/47L Cylinder	Low GWP; Sustainable Alternative To Sulfur Hexafluoride (SF6) For Electrical Equipment Insulation And Arc Quenching Applications

FEC Series Immersion Fluorinated Electronic Coolants

FEC series Immersion Fluorinated Electronic Coolants developed by Yuji can not only meet the environmental requirements, but also minimize or eliminate air cooling infrastructure to a greater extent to meet different workload requirements with reducing cost expenditures. The products can be widely used in 5G base stations, data centers, switch telecommunications, power systems, wind power, etc.

Product Name	Density Of Liquids (g/ml)	Boiling Point (°C)	Vapour Pressure (mmHg, @25°C)	Dielectric Constant (1kHz, @25°C)
FEC-50	1.560	47.1	215.0	2.00
FEC-80	1.580	82.5	117.8	2.12
FEC-110	1.737	107.2	38.0	1.87
FEC-140	1.766	137.4	30.2	1.84
FEC-140	1.813	158.6	5.9	<2

Lithium-ion Battery Chemicals

Yuji is committed to the development and the formulation researches of lithium battery electrolyte additive for solving out a balance between the lifetime and performance balance of lithium battery. The products have been widely used in 3C products, electric vehicles, UPS power supply, mobile base station power supply, photovoltaic power station and other fields.

Product Name	CAS No.	Purity	Packaging Size	Applications
FEC Fluoroethylene Carbonate	14435-02-8	≥99.95%	Drums: 20kg、200kg	Used For Increasing The Flash Point Of Electrolyte, Improving The Low Temperature Performance Of Lithium Battery And Enhancing The Cycle Life Of Lithium Battery With A Good Flame Retardancy.
VC Vinylene Carbonate	872-36-6	≥99.95%	Drums: 20kg、200kg	Used To Form A Solid Electrolyte Interface Film (SEI Film) On The Surface Of The Negative Electrode During The Initial Charging And Discharging Of Lithium Batteries, Effectively Inhibiting The Embedding Of Solvent Molecules And The Gas Expansion Of Lithium Batteries, Thus Improving The Battery Life.
LiFSI Lithium Bis (Fluoro-Basedsulfonyl) IMide	171611-11-3	≥99.95%	Drums: 20kg、100kg	Used To Effectively Reduce The High And Low Temperature Resistance Of SEI Film At A Low Temperature And Shrink The Capacity Loss Of Lithium Battery During The Placement, Thus Providing A High Battery Capacity And An Electro-Chemical Performance Of The Battery
LiBF4 Lithium Tetrafluoroborate	14283-07-9	≥99.95%	Drums: 20kg、100kg	Used To Widen The Working Temperature Range Of Lithium Batteries, Improve The High And Low Temperature Discharge Performance And Cycle Lives Of Lithium Batteries With A Good Chemical Stability And Thermal Stability.

Pharmaceutical & Pesticide intermediates

Product Name	CAS No.	Packaging Size	Applications
Difluoroethanamine	430-67-1	Drums: 20kg、250kg	An important fluorinated aliphatic compound, widely used as a raw material or intermediate in the synthesis of pharmaceuticals, pesticides and other products
Trifluoroiodomethane	2314-97-8	10kg/20kg disposable cylinders 1000kg refillable cylinders 18T ISO TANK	Mainly used for introducing the fluorinated drug trifluoromethyl, which can effectively prolong the duration of effectiveness in the organism and enhance the metabolic stability.

Other Fluorinated Fine Chemicals

Yuji has been engaged in the R&D and industrialization of fluorine chemicals for many years with accumulating many industrialization technologies spanning from liquid-phase to gas-phase methods which are widely utilized in the production of fluorine-containing chemicals. The fluorine-containing fine chemicals developed by Quanzhou Yuji are widely used in power electronics, semiconductors, pharmaceutical and pesticide intermediates and other fields.

Product Name	Synonymous	CAS NO.	Applications
Pentafluoroethyl Iodide	PFEI	354-64-3	Intermediate In The Synthesis Of API
Hexafluoro-2-Butyne	HFB	692-50-2	Pharmaceutical Intermediate
3,3,3-Trifluoroprop-1-Yne	TFP	661-54-1	Very Low GWP Value, Suitable For Foaming Agents, Aerosol Throwing Agents And Refrigerants.
1,1-Dibromo-1,2,2,2-Tetrafluoroethane	FC-114aB2	27336-23-8	Pharmaceutical Intermediate
1,2-Dichlorohexa-Fluorocyclopentene	C-CFO-1416	706-79-6	Intermediate In synthesis Of Photochromic Agent BTP-F6
1,1,2,2,3,3,4-Heptafluorocyclopentane	C-HFC-447	15290-77-4	Pharmaceutical And Pesticide Intermediates; Solvents
1,1,2,2,3,3,4,5-Octafluorocyclopentane	C-HFC-438	828-35-3	Cleaning Additives; Used For Synthesis Of Octafluorocyclopentene
3,3,4,4,5,5-Hexafluorocyclopentene	C-HFO-1436	1005-73-8	Used In Heat Pumps
1,3,3,4,4,5,5-Heptafluorocyclopentene	C-HFO-1427	1892-03-1	Intermediate In Synthesis Of Photochromic Agent BTP-F6
1,1,2,2,9,9,10,10-Octafluoro-P-Cyclophane	Parylene HT	3345-29-7	Pharmaceutical intermediates; Used for Synthesis Of Opto-electronic Materials
1,1,1,3,3,3-Hexafluoro-2-Methoxypropane	HFE-356mmz	13171-18-1	Pharmaceutical Intermediates



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