



未来材料NEXT-GEN MATERIALS

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HYDROGEN ENERGY MATERIAL

含氟精细化学品系列

FLUORINATED FINE CHEMICALS SERIES

公司简介 COMPANY PROFILE

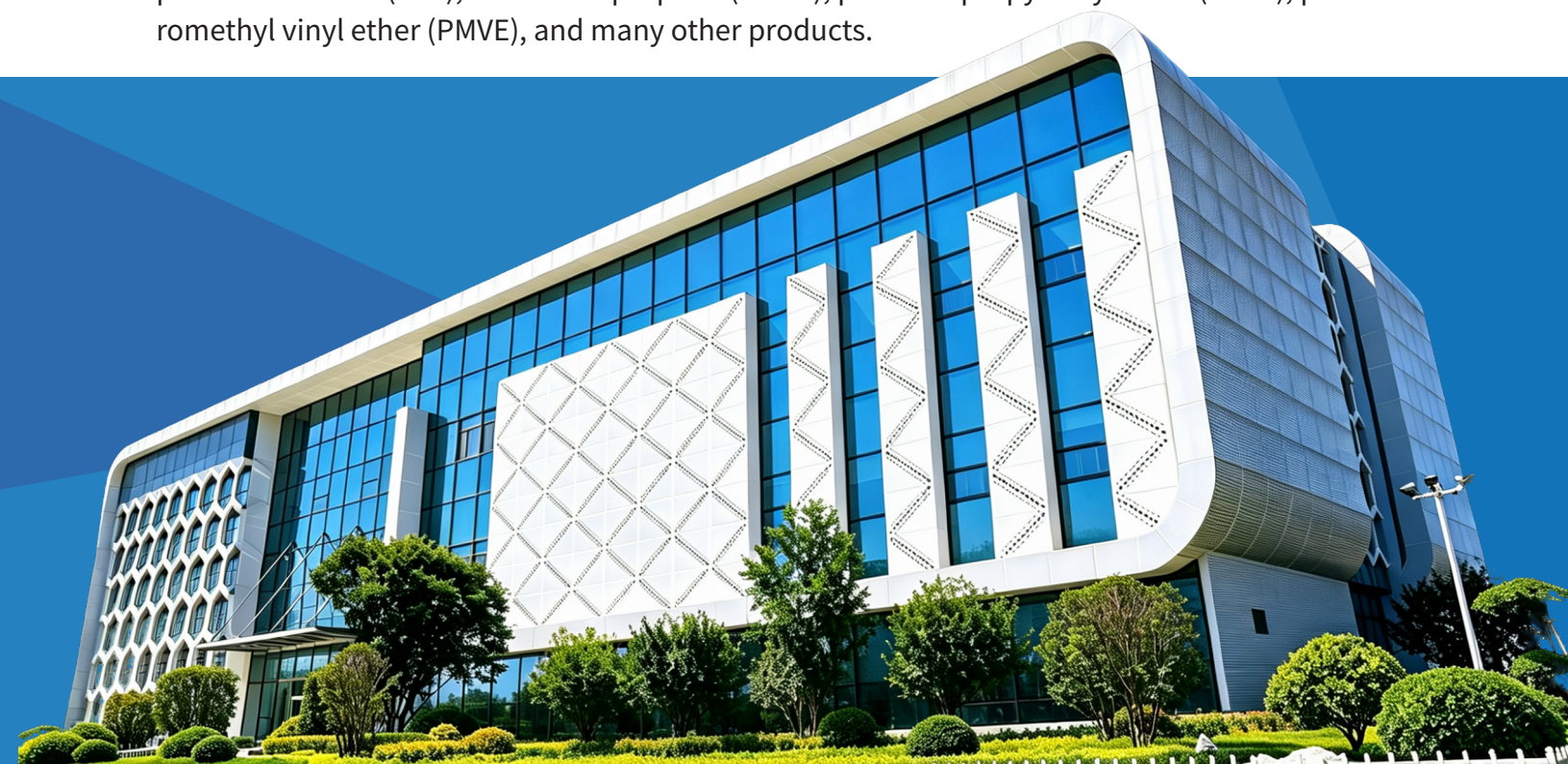
山东东岳未来氢能材料股份有限公司，成立于2017年12月19日，注册地：淄博市东岳经济开发区。公司专注于含氟功能膜及配套关键材料的研发、生产与销售，以先进含氟功能膜及其关键材料为主要产业方向，立足于核心原料自主可控、主要产品进行国产替代，围绕全氟环氧化合物作为关键原料进行一体化产业布局。公司愿景“做受人尊敬的公司，成为全球领先的含氟功能膜和关键材料企业”。

公司共设南北两个厂区，南区为150万平方米燃料电池质子膜生产厂区，由综合研发中心和国际先进的标准化膜车间组成；北区为燃料电池质子膜配套工程，以提供全产业链配套的高科技关键材料。公司主营产品包括氢燃料电池质子膜、水电解制氢膜、液流电池膜、膨体聚四氟乙烯 (ePTFE)、全氟磺酸离子交换树脂、全氟羧酸离子交换树脂、乙烯-四氟乙烯共聚物 (ETFE/F40)、可熔性聚四氟乙烯 (PFA)、全氟弹性体 (PFE)、六氟环氧丙烷 (HFPO)、全氟正丙基乙烯基醚 (PPVE)、全氟甲基乙烯基醚 (PMVE) 等诸多产品。

历经十余年科研攻关，公司形成了从原料、中间体、单体、聚合物、到成膜技术、功能化技术等全产业链条，掌握自主核心技术，拥有强大的市场竞争力。公司主打产品高性能燃料电池质子膜通过了奔驰6000小时测试，技术处于业界领先水平。其他产品性能优异，产品质量和供应保障能力得到国内外客户的广泛认可，被广泛用于化工、电子、医药、农业、汽车、半导体、新能源等重要领域，同时与众多下游龙头企业建立起了紧密的产业合作关系。

Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. was established on December 19, 2017, is registered address in Dongyue Economic Development Zone, Zibo City. The company focuses on the research, development, production and sales of fluorine-containing functional membranes and related key materials. Its main industrial direction is based on advanced fluorine-containing functional membranes and their key materials. It aims to achieve independent control over core raw materials and implement domestic substitution for main products, and carry out an integrated industrial layout centered around perfluorocarboxylic acids as the key raw material. The company's vision is "To become a respected company and a global leading enterprise in fluorine-containing functional membranes and key materials".

The company has two production areas, namely the northern and southern ones. The southern area covers an area of 150 square kilometers for the production of fuel cell proton membranes, consisting of an integrated research and development center and internationally advanced standardized membrane workshops. The northern area is dedicated to the fuel cell proton membrane supporting projects, providing high-tech key materials for the entire industry. The company's main products include hydrogen fuel cell proton membranes, hydrogen production membranes for electrolysis, liquid flow battery membranes, expanded polytetrafluoroethylene (ePTFE), perfluorosulfonic acid ion exchange resins, perfluorocarboxylic acid ion exchange resins, ethylene-perfluorovinyl copolymer (ETFE/F40), fusible polytetrafluoroethylene (PFA), perfluorosilicone (PFE), hexafluoropropane (HFPO), perfluoropropyl vinyl ether (PPVE), perfluoromethyl vinyl ether (PMVE), and many other products.



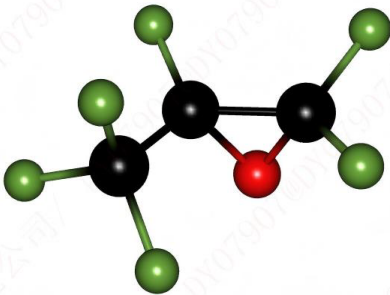
After years of scientific research, the company has formed a whole industry chain from raw materials, intermediates, monomers, polymers, to film forming technology, functionalization technology, master independent core technology, and has a strong market competitiveness. The company's flagship product high-performance fuel cell proton membrane has passed the Mercedes-Benz 6000 hours test, and the technology is at the industry-leading level. The company's diverse product lines feature outstanding performance, and both product quality and supply reliability have earned widespread recognition from domestic and overseas customers. These products are extensively used in key sectors such as chemicals, electronics, pharmaceuticals, agriculture, automotive, semiconductor, new energy, etc., and the company has established close industrial partnerships with numerous leading downstream enterprises.

目录

1	六氟环氧丙烷 (HFPO)	01
2	全氟正丙基乙烯基醚 (PPVE)	02
3	全氟3,6-二氧杂-4-甲基-7-辛烯磺酰氟 (PSVE).....	03
4	全氟乙烯基醚羧酸甲酯 (PCVE).....	04
5	四氟乙烷-B-磺内酯	05
6	3-甲氧基-2,2,3,3-四氟丙酸甲酯 (MTPME)	06
7	碳酰氟 (CF ₂ O)	07
8	三氟乙酰氟	08
9	三氟乙酸	09
10	全氟-2,5-二甲基-3,6-二氧杂庚酸 (207)	10
11	全氟-2,5-二甲基-3,6-二氧杂辛酸 (208)	11
12	全氟-2-甲基-3-氧杂己酰氟	12
13	2,5-双(三氟甲基)-3,6-二氧杂十一氟代壬酰氟 ...	13
14	2-(全氟丙氧基)全氟丙基三氟乙烯基醚 (PHVE)...	14
15	六氟丙酮三水合物	15
16	六氟异丙醇 (HFIP)	16
17	双酚AF.....	17
18	全氟戊酮 (FK5110)	18
19	全氟异丁腈	19
20	六氟异丙基甲醚 (HFE-356MMZ).....	20
21	全氟甲基乙烯基醚 (PMVE)	21
22	全氟乙基乙烯基醚 (PEVE)	22
23	全氟异丁基甲醚 (F-IC4H).....	23
24	3-甲氧基-2-三氟甲基全氟丁烷 (K-IC5H).....	24

1/ 六氟环氧丙烷 (HFPO)
Hexafluoropropylene Oxide

六氟环氧丙烷 (HFPO),是六氟丙烯的氧化产物,无色不燃气体,受压易液化,是有机氟材料的重要中间体,用于制备六氟丙酮、六氟异丙醇、含氟乙烯基醚(如PPVE、PSVE、PEVE、PMVE)、含氟表面活性剂、含氟醚油类、全氟磺酸树脂等多种含氟精细化学品或聚合物,广泛用于化工、电子、医药、农业、汽车、新能源、航空航天等重要领域。



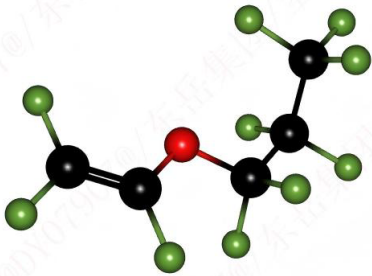
Hexafluoropropylene oxide (HFPO) is the oxidation product of hexafluoropropylene. It is a colorless, non-combustible gas, easy to liquefy under pressure. It is an important intermediate for organic fluorine materials. It is used to prepare hexafluoroacetone, hexafluoroisopropanol, fluorinated vinyl ethers (such as PPVE, PSVE, PEVE, PMVE), fluorinated surfactants, fluorinated ether oils, perfluorosulfonic acid resins and many other fluorinated fine chemicals or polymers are widely used in chemicals and electronics, medicine, agriculture, automobiles, new energy, aerospace and other important fields.

产品信息
Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	六氟环氧丙烷 Hexafluoropropylene Oxide
CAS号 CAS		428-59-1
分子式 Molecular Formula		C ₃ F ₆ O
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

2/ 全氟正丙基乙烯基醚 (PPVE) Perfluoropropylvinyl Ether (PPVE)

全氟正丙基乙烯基醚 (PPVE) 是一种含氟乙烯基醚的共聚用单体, 无色透明液体, 用于合成氟塑料。PPVE 可有效地破坏以 TFE 为基础的共聚体的结晶度, 广泛应用于合成含氟聚合物 (如 PFA、改性聚四氟乙烯等), 同时还可用来将氟官能团引入有机分子中, 用于农业及制药行业。



Perfluoropropylvinyl ether (PPVE) is a comonomer of fluorine-containing vinyl ether, a colorless and transparent liquid, used in the synthesis of fluoroplastics. PPVE can effectively destroy the crystallinity of TFE-based copolymers, and is widely used in the synthesis of fluoropolymers (such as PFA, modified polytetrafluoroethylene, etc.). It can also be used to introduce fluorine functional groups into organic molecules in agriculture and pharmaceutical industry.

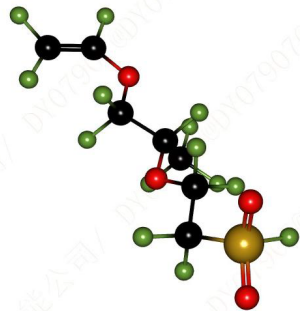
产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟正丙基乙烯基醚 Perfluoropropylvinyl Ether
CAS号 CAS		1623-05-8
分子式 Molecular Formula		C ₅ F ₁₀ O
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

3/ 三、全氟3,6-二氧杂-4-甲基-7-辛烯磺酰氟 (PSVE) Perfluoro (4-methyl-3,6-dioxaoct-7-ene) Sulfonyl Fluoride (PSVE)

全氟3,6-二氧杂-4-甲基-7-辛烯磺酰氟 (PSVE) 常态下为无色透明液体, 是有机氟材料的重要共聚用单体, 主要作用是把功能性磺酸基团链引入聚合物中, PSVE 可与 TFE 共聚生成带磺酸侧链的聚合物, 是制备全氟磺酸离子交换树脂的主要单体。



Perfluoro (4-methyl-3,6-dioxaoct-7-ene) sulfonyl fluoride (PSVE) is a colorless and transparent liquid under normal conditions. It is an important comonomer for organic fluorine materials. Its main function is to introduce the functional sulfonic acid group into the polymer. PSVE can be copolymerized with TFE to form a polymer with sulfonic acid side chains. It is the main monomer for preparing perfluorosulfonic acid ion exchange resins.

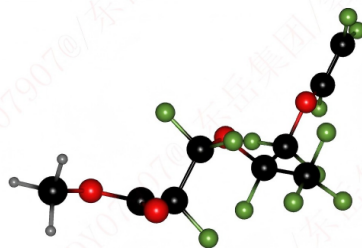
产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟3,6-二氧杂-4-甲基-7-辛烯磺酰氟 (PSVE) Perfluoro (4-methyl-3,6-dioxaoct-7-ene) Sulfonyl Fluoride (PSVE)
CAS号 CAS		16090-14-5
分子式 Molecular Formula		C ₇ F ₁₄ O ₄ S
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

4/全氟乙烯基醚羧酸甲酯(PCVE)
Perfluoro Vinyl Ether Carboxylic Acid Methyl Ester (PCVE)

全氟乙烯基醚羧酸甲酯(PCVE), 常态下为无色透明液体, 是有机氟材料的重要共聚用单体, 主要作用是把功能性羧酸基团链引入聚合物中, PCVE可与TFE共聚生成带羧酸侧链的聚合物, 是制备全氟羧酸离子交换树脂的主要单体。



Perfluoro vinyl ether carboxylic acid methyl ester (PCVE) is a colorless and transparent liquid under normal conditions. It is an important comonomer for organic fluorine materials. The function is to introduce functional carboxylic acid groups into the polymer. PCVE can be copolymerized with TFE to form polymers with carboxylic acid side chains and is the main monomer for preparing perfluorocarboxylic acid ion exchange resins.

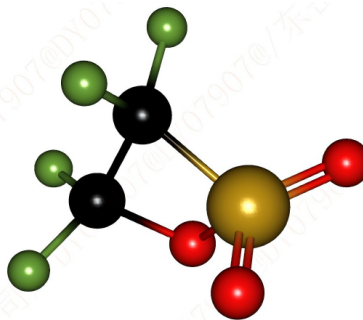
产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟乙烯基醚羧酸甲酯 (PCVE) Perfluoro Vinyl Ether Carboxylic Acid Methyl Ester (PCVE)
CAS号 CAS		63863-43-4
分子式 Molecular Formula		C ₉ H ₃ F ₁₃ O ₄
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

5/四氟乙烷-β-磺内酯
Tetrafluoroethane β-sultone

四氟乙烷-β-磺内酯是一种无色透明液体, 是一种特殊含氟精细化学品, 工业生产四氟乙烷-β-磺内酯是一种环状结构与直链结构的混合物, 其中环状结构不断向直链结构转换。因其具有特殊的结构, 可与各种烯烃、环烷烃、亲核试剂等发生反应, 合成各种结构的含氟化合物, 是一种重要的含氟中间体, 用于制备含羧酸基或磺酸基功能化合物, 主要用于合成功能高分子材料及精细化学品, 如PSVE、含氟表面活性剂和氟油脂等。



Tetrafluoroethane β-sultone is colorless and clear liquid and a special fluorinated fine chemical. Tetrafluoroethane β-sultone industrially produced is a mixture with cyclic structure and linear chain structure, wherein the cyclic structure can continuously shift into the linear chain structure. Because of its special structure, it can react with various olefins, cyclane and nucleophilic reagents to synthesize fluorinated compounds with various structures, and is an important fluorine-containing intermediate. It is used for preparing carboxyl or sulfonic acid group functional compounds to synthesize functional polymer materials and fine chemicals, such as PSVE, fluorine-containing surfactant and fluorine-containing oils.

产品信息

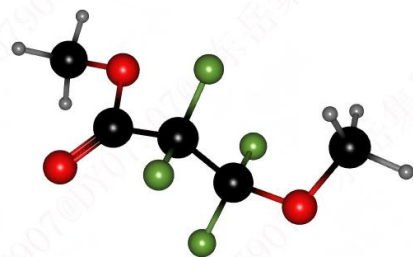
Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	四氟乙烷-β-磺内酯 Tetrafluoroethane-β-sultone
CAS号 CAS	---	697-18-7
分子式 Molecular Formula	---	C ₂ F ₄ SO ₃
结构式 Structural Formula	---	
产品含量 Content	wt%	≥ 95.0

6/ 3-甲氧基-2,2,3,3-四氟丙酸甲酯 (MTPME)

3-Methoxy-2,2,3,3-tetrafluoromethyl Propionate (MTPME)

3-甲氧基-2,2,3,3-四氟丙酸甲酯, 无色透明液体, 有香味, 易燃, 性能稳定, 相对无毒, 高温易分解。是一种重要的氟化工原料, 可作为溶剂使用, 还可用于生产全氟代或部分氟代的乙烯基醚、全氟羧酸树脂关键中间体, 同时也用于生产粘结剂、燃料、医药中间体、含氟聚合物等产品。



3-Methoxy-2,2,3,3-tetrafluoromethyl propionate (MTPME) is colorless and clear liquid, with aroma, has inflammability, stable performance, relative non-toxicity, and easy to be decomposed at high temperature. It is an important fluoride industrial chemical, also used as solvent, and a key intermediate to produce perfluoro or partial fluorinated vinyl ester and PFCA resin. It is widely applied in production of adhesive, dye, pharmaceutical intermediate and fluoropolymers.

产品信息

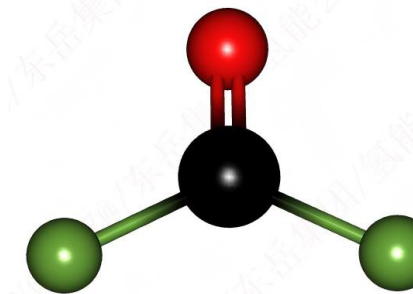
Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	3-甲氧基-2,2,3,3-四氟丙酸甲酯 3-Methoxy-2,2,3,3-tetrafluoromethyl propionate
CAS号 CAS		755-73-7
分子式 Molecular Formula		C ₅ H ₆ F ₄ O ₃
结构式 Structural Formula		
产品含量 Content	wt%	≥ 95.0

7/ 碳酰氟 (CF₂O)

Carbonyl Fluoride (CF₂O)

碳酰氟, 又名氟光气, 是一种含氟、非易燃、有毒气体, 化学式为CF₂O, 主要用作半导体制造装置的清洗气和刻蚀气, 也可用作有机合成的中间体、氟化剂。



Carbonyl fluorine, also known as fluorophosgene, is a fluorine-containing, non-flammable, toxic gas with a chemical formula of CF₂O. It is mainly used as cleaning gas and etching gas in semiconductor manufacturing equipment, and can also be used as intermediate and fluorinating agent in organic synthesis.

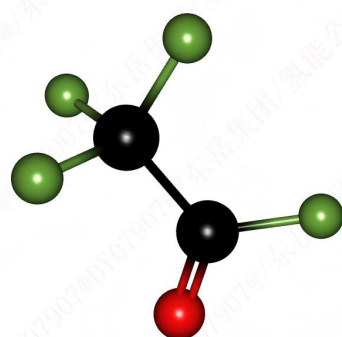
产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	碳酰氟 (CF ₂ O) Carbonyl Fluoride (CF ₂ O)
CAS号 CAS	---	353-50-4
分子式 Molecular Formula	---	CF ₂ O
结构式 Structural Formula	---	
产品含量 Content	wt%	≥ 99.0

8/ 三氟乙酰氟 Trifluoroacetyl Fluoride

三氟乙酰氟是一种不燃气体，具有强刺激性。三氟乙酰氟在电子行业可以用作清洗剂和蚀刻剂，在农药中间体、含氟材料单体等领域有广泛的应用。



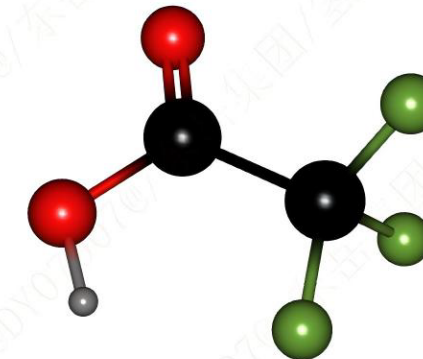
Trifluoroacetyl fluoride is a strongly irritant non-flammable gas. It can be used as cleaning agent and etching agent in electronics industry, and has a wide range of applications in the fields of pesticide intermediates and fluorine-containing material monomers.

产品信息 Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	三氟乙酰氟 Trifluoroacetyl Fluoride
CAS号 CAS		354-34-7
分子式 Molecular Formula		C ₂ F ₄ O
结构式 Structural Formula		
产品含量 Content	wt%	≥ 95.0

9/ 三氟乙酸 Trifluoroacetic Acid

三氟乙酸是一种无色有强烈刺激性气味的发烟液体，用于合成含氟化合物、杀虫剂和染料。还可用作医药、农药中间体、生化试剂、有机合成试剂。



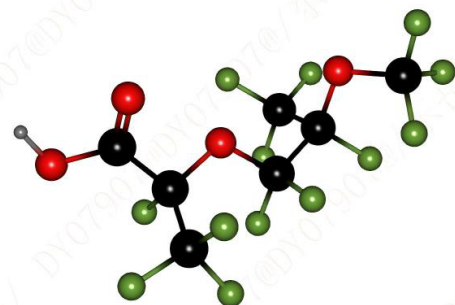
Trifluoroacetic acid is a colorless smoky liquid with a strong pungent odor that is used in the synthesis of fluorinated compounds, pesticides and dyes. It can also be used as medicine, pesticide intermediates, biochemical reagents, organic synthesis reagents.

产品信息 Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	三氟乙酸 Trifluoroacetic Acid
CAS号 CAS		76-05-1
分子式 Molecular Formula		C ₂ F ₃ O ₂ H
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

10/ 全氟-2,5-二甲基-3,6-二氧杂庚酸(207) Perfluoro-2,5-dimethyl-3,6-dioxaheptanoic Acid(207)

全氟-2,5-二甲基-3,6-二氧杂庚酸(207)是一种含氟表面活性剂,无色透明液体。在氟化工行业常被用作氟树脂、氟橡胶的聚合助剂,具有乳化、分散、增溶的作用,广泛应用于PTFE、FEP、PVDF、PFA、ETFE等含氟聚合物的聚合中。



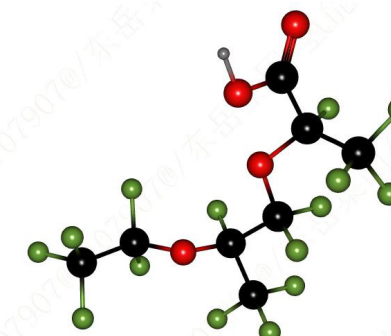
Perfluoro-2, 5-dimethyl-3, 6-dioxaheptanoic acid (207) is a fluorosurfactant, colorless and transparent liquid. In the fluorine chemical industry, it is often used as a polymerization aid for fluororesin and fluororubber, It has the functions of emulsification, dispersion and solubilization, and is widely used in the polymerization of PTFE, FEP, PVDF, PFA, ETFE and other fluoropolymers.

产品信息 Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟-2,5-二甲基-3,6-二氧杂庚酸(207) Perfluoro-2, 5-dimethyl-3, 6-dioxaheptanoic acid(207)
CAS号 CAS		2479-73-4
分子式 Molecular Formula		C ₇ HF ₁₃ O ₄
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

11/ 全氟-2,5-二甲基-3,6-二氧杂辛酸(208) Perfluoro-2,5-dimethyl-3,6-dioxaoctanoic Acid(208)

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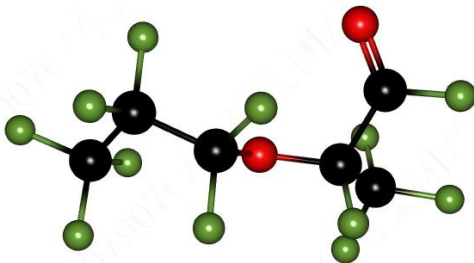
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产品信息 Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟-2,5-二甲基-3,6-二氧杂辛酸(208) Perfluoro-2, 5-dimethyl-3, 6-dioxaoctanoic acid(208)
CAS号 CAS		2479-74-5
分子式 Molecular Formula		C ₈ HF ₁₅ O ₄
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

12/ 全氟-2-甲基-3-氧杂己酰氟
Perfluoro-2-methyl-3-oxhexyl Fluoride

全氟-2-甲基-3-氧杂己酰氟是一种无色透明液体,该产品一般由六氟环氧丙烷为原料聚合而成,又称为六氟环氧丙烷二聚体。因其含有酰氟结构(-COF),遇水会分解产生氟化氢(HF),非常活泼,需要严格密封储存,是一种重要的含氟中间体。



Perfluoro-2-methyl-3-oxhexyl fluoride is colorless and clear liquid ,and is generally produced from hexafluoropropylene oxide. Perfluoro(2-methyl-3-oxahexanoyl) fluoride is also known as hexafluoropropylene oxide dimer. It will decompose to hydrogen fluoride (HF) when encountering water,because of its acyl fluoride structure (-COF). It is very active and needs to be strictly sealed for storage. It' s an important fluorinated intermediate.

产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟-2-甲基-3-氧杂己酰氟 Perfluoro-2-methyl-3-oxhexyl fluoride
CAS号 CAS		2062-98-8
分子式 Molecular Formula		C ₆ F ₁₂ O ₂
结构式 Structural Formula		
产品含量 Content	wt%	≥ 97.0

13/ 2,5-双(三氟甲基)-3,6-二氧杂十一氟代壬酰氟
2,5-Bis(trifluoromethyl)-3,6-dioxaundeca Fluorononanoyl Fluorid

2,5-双(三氟甲基)-3,6-二氧杂十一氟代壬酰氟是一种无色透明液体,该产品一般由六氟环氧丙烷为原料聚合而成,又称为六氟环氧丙烷三聚体。因其含有酰氟结构(-COF),遇水会分解产生氟化氢(HF),非常活泼,需要严格密封储存,是一种重要的含氟中间体,用于制备含氟羧酸或醚类化合物,如2-全氟丙氧基全氟丙基三氟乙基醚等。

2, 5-bis(trifluoromethyl)-3, 6-dioxane hexafluorononanoyl fluoride is a colorless transparent liquid, the product is generally made of hexafluoropropylene oxide as a raw material polymerization, also known as hexafluoropropylene oxide trimer. Because it contains acyl fluoride structure (-COF), it will decompose into hydrogen fluoride (HF) when it meets water, which is very active and requires strict sealed storage. It is an important fluorine-containing intermediate for the preparation of fluorinated carboxylic acids or ether compounds, such as 2-perfluorinated propoxy-perfluoro-propyl trifluorovinyl ether.

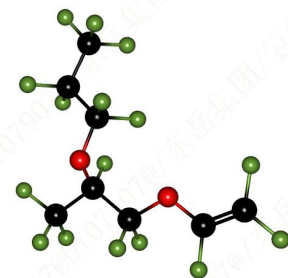
产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	2,5-双(三氟甲基)-3,6-二氧杂十一氟代壬酰氟 2,5-Bis(trifluoromethyl)-3,6-dioxaundecafluorononanoyl Fluorid
CAS号 CAS		2641-34-1
分子式 Molecular Formula		C ₉ F ₁₈ O ₃
结构式 Structural Formula		
产品含量 Content	wt%	≥ 97.0

14/ 2-(全氟丙氧基)全氟丙基三氟乙烯基醚 (PHVE) Perfluoro (5-methyl-3,6-dioxanon-1-ene) (PHVE)

2-(全氟丙氧基)全氟丙基三氟乙烯基醚 (PHVE) 是一种无色透明液体, 可以作为含氟聚合物的共聚单体。将其引入聚合物后可以降低含 TFE 聚合物的结晶度, 增强聚合物的抗蠕变性能。



2-(perfluoropropoxy)perfluoropropyl trifluorovinyl ether is colorless, transparent liquid and can be used as a comonomer for fluoropolymers. It is introduced into the polymer and can reduce the crystallinity of the TFE-containing polymer and enhance the creep resistance of the polymer.

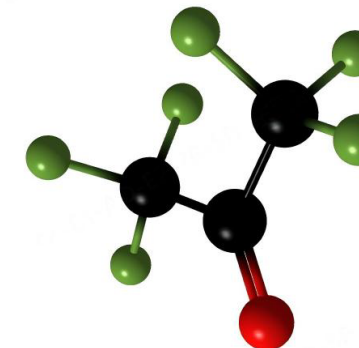
产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	2-(全氟丙氧基)全氟丙基三氟乙烯基醚 2-(perfluoropropoxy)perfluoropropyl trifluorovinyl ether
CAS号 CAS		1644-11-7
分子式 Molecular Formula		C ₈ F ₁₆ O ₂
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

15/ 六氟丙酮三水合物 Hexafluoroacetone Trihydrate

六氟丙酮三水合物是有机氟化工中不可替代的基础原料, 是引入六氟异丙叉基团和羟基六氟异丙基基团的重要含氟砌块, 可衍生出许多重要的精细化工中间体和产品, 具有毒性低、沸点高等特点, 广泛应用于医药、农药和合成材料等领域。



Hexafluoroacetone trihydrate is an irreplaceable basic raw material in organic fluorine chemical industry. It is an important fluorine-containing block that introduces hexafluoroisopropyl group and hydroxy-hexafluoroisopropyl group, and can be derived from many important fine chemical intermediates and products. It is characterized by low toxicity and high boiling point, and is widely used in medicine, pesticides and synthetic materials.

产品信息

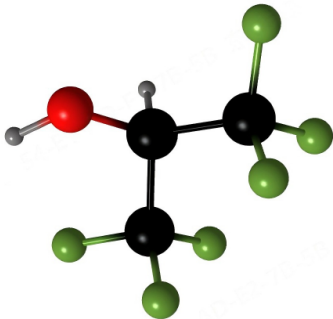
Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	六氟丙酮三水合物
CAS号 CAS		34202-69-2
分子式 Molecular Formula		C ₃ H ₆ F ₆ O ₄
结构式 Structural Formula		
产品含量 Content	wt%	≥ 95.0
PH值 PH	---	3-4

16/ 六氟异丙醇 (HFIP)
Hexafluoroisopropanol (HFIP)

六氟异丙醇 (HFIP) 可用于制备麻醉剂、表面活性剂等高端含氟精细化学品。HFIP具有强极性, 易与水 and 许多有机试剂互溶, 耐热且允许紫外线通过, 这些特性使HFIP成为许多聚合物的理想溶剂。HFIP还广泛的用于医药、农药的有机合成中, 也可以作为高级清洗剂应用于尖端仪器设备的制造和清洗。

Hexafluoroisopropanol (HFIP) can be used in the preparation of narcotics, surfactants and other high-end fluorine-containing fine chemicals. HFIP has strong polarity, easy to be miscible with water and many organic reagents, heat resistance and allow ultraviolet light to pass through, which make HFIP an ideal solvent for many polymers. HFIP is also widely used in the organic synthesis of medicine and pesticides, and can also be used as an advanced cleaning agent in the manufacturing and cleaning of cutting-edge instruments and equipment.



产品信息

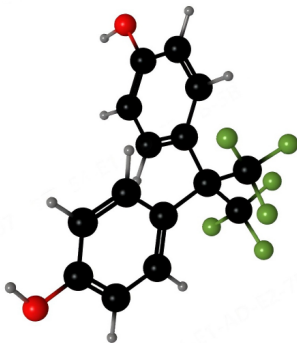
Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	六氟异丙醇 (HFIP) Hexafluoroisopropanol (HFIP)
CAS号 CAS		920-66-1
分子式 Molecular Formula		C ₃ H ₂ F ₆ O
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.8

17/ 双酚AF
Bisphenol AF

双酚AF是一种含氟精细化学品, 主要用作氟橡胶的硫化剂, 能使橡胶制品具有良好的抗压缩变形、抗化学腐蚀及热稳定性; 可作为单体合成含氟聚酰(亚)胺、含氟聚酯、含氟聚芳醚、含氟聚醚酮、含氟聚碳酸酯、含氟环氧树脂、含氟聚氨酯及其他含氟聚合物。广泛的应用于微电子、光学、空间技术等方面。

Bisphenol AF is a fluorine containing fine chemical, mainly used as a vulcanizing agent of fluorine rubber, can make rubber products have good compression deformation resistance, chemical corrosion resistance and thermal stability; It can be used as a monomer to synthesize fluoropolyl (imide) amine, fluoropolyl polyester, fluoropolyl aromatic ether, fluoropolyl ether ketone, fluoropolyl polycarbonate, fluoropolyl epoxy resin, fluoropolyl polyurethane and other fluoropolymer. Widely used in microelectronics, optics, space technology and other aspects.



产品信息

Product Information

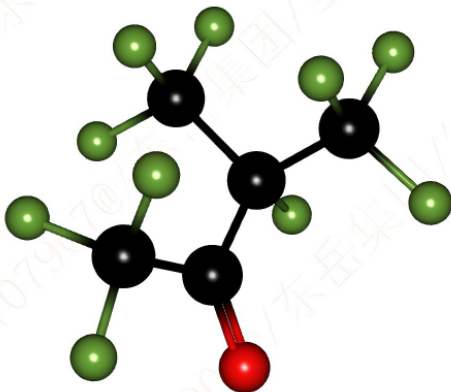
项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	双酚AF Bisphenol AF
CAS号 CAS		1478-61-1
分子式 Molecular Formula		C ₁₅ H ₁₀ F ₆ O ₂
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.5
色度, Hazen (铂钴色号) Chroma, Hazen (platinum cobalt color number)	---	≤ 150

18/ 全氟戊酮 (FK5110)

Perfluoropentanone (FK5110)

全氟戊酮 (FK5110) 是一种新型环保绝缘、灭弧液体, 因其具有无毒、低GWP值、灭弧性能优于SF6等特点, 目前已广泛用于SF6在电气设备中的替代。由于其沸点较高, 必须与CO₂、N₂、O₂等气体中的一种或几种进行混合使用。

Perfluoropentanone (FK5110) is a new type of environmental protection insulation, arc extinguishing liquid, because of its non-toxic, low GWP value, arc extinguishing performance is better than SF6 characteristics, has been widely used in SF6 replacement in electrical equipment. Because of its high boiling point, it must be mixed with one or several gases such as CO₂, N₂ and O₂.

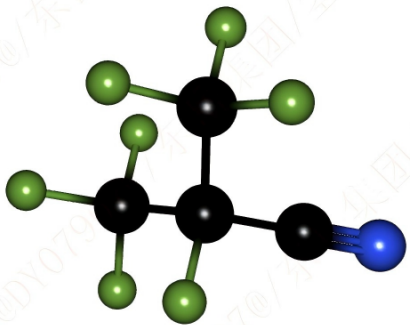


19/ 全氟异丁腈

Perfluoroisobutyronitrile

全氟异丁腈是一种新型环保绝缘、灭弧气体, 因其具有低毒、低GWP值、灭弧性能优于SF6等特点, 目前已广泛用于SF6在电气设备中的替代, 如气体绝缘封闭组合电器 (GIS)、充气柜 (C-GIS)、气体绝缘断路器 (GCB) 和气体绝缘管道母线 (GIL) 等。它可以单独使用, 也可以与CO₂、N₂、O₂等气体中的一种或几种进行混合使用。

Perfluoroisobutyryle is a new type of environmentally friendly insulation and arc extinguision gas. It has been widely used to replace SF6 in electrical equipment, such as gas insulated closed assembly (GIS), gas filled cabinet (C-GIS), gas insulated circuit breaker (GCB) and gas insulated pipe bus (GIL), etc. It has low toxicity, low GWP value, and better arc-killing performance than SF6. It can be used alone or in combination with one or more of the gases such as CO₂, N₂, and O₂.



产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟戊酮(FK5110) Perfluoropentanone(FK5110)
CAS号 CAS		756-12-7
分子式 Molecular Formula		C ₅ F ₁₀ O
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟异丁腈 Perfluoroisobutyryle
CAS号 CAS		42532-60-5
分子式 Molecular Formula		C ₄ F ₇ N
结构式 Structural Formula		
产品含量 Content	wt%	≥ 99.0

20/ 六氟异丙基甲醚 (HFE-356mmz)

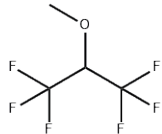
Hexafluoroisopropyl Methyl Ether (HFE-356mmz)

六氟异丙基甲醚 (HFE-356mmz), 六氟环氧丙烷的下游衍生物, 无色无味液体, 是一种重要的含氟高端精细化学品。六氟异丙基甲醚下游应用主要集中在生产吸入式麻醉剂七氟醚。除此之外, HFE-356mmz具有优异的热稳定性和电性能, 常用作电子器件的冷却介质; 它还广泛应用于高温热管理领域, 如集成电路制造、半导体生产、光学设备等。

Hexafluoroisopropyl methyl ether (HFE-356mmz), a downstream derivative of hexafluoropropylene oxide, a colorless and odorless liquid, is an important fluorine-containing high-end fine chemical. The downstream application of hexafluoroisopropyl methyl ether is mainly focused on the production of inhalation anesthetic sevoflurane. In addition, HFE-356mmz has excellent thermal stability and electrical properties, and is commonly used as a cooling medium for electronic devices; it is also widely used in the field of high temperature thermal management, such as integrated circuit manufacturing, semiconductor production, optical equipment and so on.

产品信息

Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	六氟异丙基甲醚 (HFE-356mmz) Hexafluoroisopropyl Methyl Ether (HFE-356mmz)
CAS号 CAS		13171-18-1
分子式 Molecular Formula		C ₄ H ₄ F ₆ O
结构式 Structural Formula		
产品含量 Content	wt%	99.0

21/ 全氟甲基乙烯基醚 (PMVE)

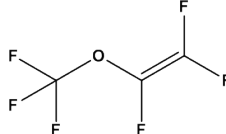
Perfluoromethyl Vinyl Ether (PMVE)

全氟甲基乙烯基醚 (PMVE) 是一种含氟乙烯基醚类单体, 是合成特种氟聚合物和改性氟聚合物的关键原料, 所制得氟聚合物具有优异的耐酸碱和耐高/低温性能, 成型制品广泛应用于核工业、航空和航天、化工制造、管道运输和半导体等苛刻领域的密封件。此外, PMVE还可以作为合成新型农药双苯氟脲的重要原料。

Perfluoromethyl vinyl ether (PMVE) is a fluorinated vinyl ether monomer, is a key raw material for the synthesis of special fluoropolymer and modified fluoropolymer, the fluoropolymer produced has excellent acid and alkali resistance and high/low temperature resistance, molding products are widely used in nuclear industry, aviation and aerospace, chemical manufacturing, pipeline transportation and semiconductor and other harsh fields of seals. In addition, PMVE can also be used as an important raw material for the synthesis of new pesticide diphenylurea.

产品信息

Product Information

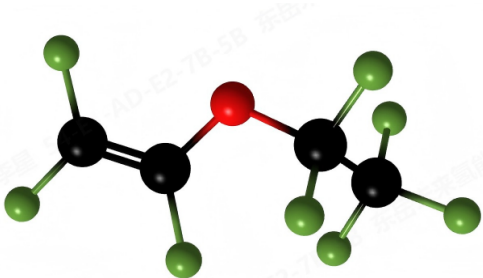
项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟甲基乙烯基醚 (PMVE) Perfluoromethyl Vinyl Ether (PMVE)
CAS号 CAS		1187-93-5
分子式 Molecular Formula		C ₃ F ₆ O
结构式 Structural Formula		
产品含量 Content	wt%	99.9

22/ 全氟乙基乙烯基醚 (PEVE)

Perfluoro (ethyl vinyl ether) (PEVE)

全氟乙基乙烯基醚 (PEVE) 是一种含氟乙烯基醚类单体, 无色气体, 比空气重, 容易液化。一方面, 可用作合成含氟聚合物的共聚单体, 降低聚合物结晶度, 提高材料柔韧性; 另一方面, 可和非氟烯烃类单体反应, 制备独特性能的表面活性剂和涂层, 降低终端成品的表面张力, 提高疏水性。

Perfluoroethyl vinyl ether (PEVE) is a fluorinated vinyl ether monomer, colorless gas, heavier than air, and easily liquefied. On the one hand, it can be used as a copolymer of fluoropolymer to reduce the crystallinity of polymer and improve the flexibility of material. On the other hand, it can react with non-fluoroolefin monomers to prepare surfactants and coatings with unique properties, reduce the surface tension of the final product, and improve the hydrophobicity.



产品信息

Product Information

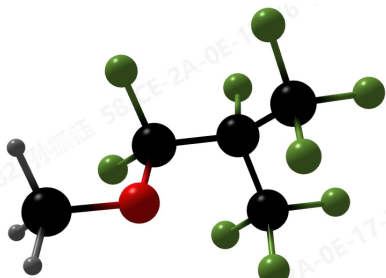
项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟乙基乙烯基醚 (PEVE) Perfluoroethyl Vinyl Ether (PEVE)
CAS号 CAS		10493-43-3
分子式 Molecular Formula		C ₄ F ₈ O
结构式 Structural Formula		
产品含量 Content	wt%	99.0

23/ 全氟异丁基甲醚 (F-iC4H)

Perfluoroisobutyl methyl ether (F-iC4H)

全氟异丁基甲醚 (F-iC4H), 是氢氟醚的一种, 无色透明液体, 具有不燃、不爆、无毒和无腐蚀性, 在半导体光电领域, 主要用于半导体冷却、半导体清洗或半导体测试; 在浸没式冷却领域, 主要用于数据中心和储能, 此外还可作为溶剂用于含氟树脂稀释、高端化妆品溶剂等。

Perfluoroisobutyl methyl ether (F-iC4H) is a type of hydrofluoroether. It is a colorless and transparent liquid that is non-flammable, non-explosive, non-toxic, and non-corrosive. In the semiconductor and optoelectronics fields, it is mainly used for semiconductor cooling, semiconductor cleaning, or semiconductor testing; in the immersion cooling field, it is mainly used for data centers and energy storage. In addition, it can also be used as a solvent for diluting fluorine-containing resins and as a solvent in high-end cosmetics.



产品信息

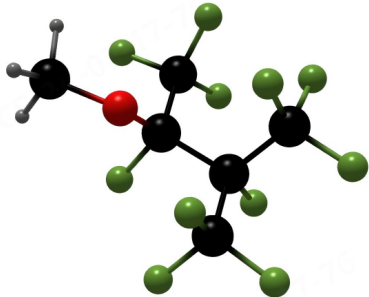
Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	全氟异丁基甲醚 (F-iC4H) Perfluoroisobutyl methyl etherI (F-iC4H)
CAS号 CAS		163702-08-7
分子式 Molecular Formula		C ₅ F ₉ H ₃ O
结构式 Structural Formula		
产品含量 Content	wt%	99.9
水含量 Water content	ppm	20

24/3-甲氧基-2-三氟甲基全氟丁烷(K-iC5H)

3-Methoxy-2-(trifluoromethyl)perfluorobutane (K-iC5H)

3-甲氧基-2-三氟甲基全氟丁烷(K-iC5H),是一种含氟化合物,兼具高化学稳定性、低表面张力和优异介电性能,主要作为中间体或功能材料应用于高端制造领域,主要用于半导体、医药等高附加值场景。



3-Methoxy-2-trifluoromethylperfluorobutane (K-iC5H) is a fluorinated compound that possesses high chemical stability, low surface tension, and excellent dielectric properties. It is mainly used as an intermediate or functional material in high-end manufacturing fields, primarily in high value-added areas such as semiconductors and pharmaceuticals.

产品信息 Product Information

项目 Item	单位 Unit	具体内容 Specific Content
化学名称 Chemical Name	---	3-甲氧基-2-三氟甲基全氟丁烷 (K-iC5H) 3-Methoxy-2-trifluoromethylperfluorobutane (K-iC5H)
CAS号 CAS		181214-73-3
分子式 Molecular Formula		C ₆ H ₃ F ₁₁ O
结构式 Structural Formula		
产品含量 Content	wt%	99.9
水含量 Water content	ppm	20

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