



# 河北圣泰材料股份有限公司

Hebei Shengtai Material Co.,Ltd.

锂电池电解液添加剂生产商

LITHIUM BATTERY ELECTROLYTE  
ADDITIVE MANUFACTURER

股票代码 ( Stock Code) : 874095

# THE COMPANY

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## BRIEF INTRODUCTION

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## 企业简介

河北圣泰材料股份有限公司成立于 2006 年，位于中国石家庄装备制造产业园区，占地约 3 万平方米，注册资本 2021 万元，专业从事锂电池电解液添加剂及新型锂电池电解液的研发、生产和销售，是全球领先的锂电池电解液添加剂供应商。2023 年公司拟建年产 11800 吨锂电池电解质及添加剂项目，规划总用地面积约 12 万平方米，规划总投资 10.5 亿元。

Hebei Shengtai Material Co., Ltd. was established in 2006. It is located in Shijiazhuang Equipment Manufacturing Industrial Park, China. The company covers an area of about 30,000 square meters and has a registered capital of 20.21 million yuan. As the world's leading supplier, Shengtai specializes in the R&D, production and sales of lithium battery electrolyte additives and new lithium battery electrolytes. In 2023, the company starts construction of a new project with an annual capacity of 11,800 tons lithium battery electrolyte additive, with a planned total land area of about 120,000 square meters and a total investment of RMB 1.05 billion.

## ◆ 业务范围 Business Scope

公司产品销往中国、欧洲、美国、日本、韩国等地，覆盖全球 90% 以上锂电池电解液公司，众多知名新能源汽车动力电池中都含有圣泰的产品，包括 LG、三星 SDI、SK On、CATL、三井化学、蜂巢能源、国轩高科、中创新航、亿纬锂能、欣旺达、松下等电池厂家，服务下游众多著名汽车品牌。同时，公司为电池及电解液厂提供添加剂和定制化产品和电解液服务方案。

The products of Shengtai have been sold to China, Europe, the United States, Japan, South Korea and other countries, covering more than 90% of the world's lithium battery electrolyte companies, and most of famous automotive power batteries contain Shengtai's products, including LG, Samsung SDI, SK On, CATL, Mitsui Chemicals, Svolt, Gotion, CALB, EVE, Sunwoda, Panasonic and other battery manufacturers, serving many famous downstream automobile brands. At the same time, the company provides customized additive products and service solutions for battery and electrolyte factories.

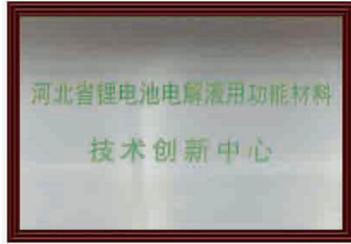
## ◆ 企业资质荣誉 Enterprise Qualification Honor

- ISO9001、ISO14001、ISO45001、知识产权管理体系认证  
ISO9001, ISO14001, ISO45001 and Certification of intellectual property management system
- 国家专精特新“小巨人”企业  
Specialized and special new "Little Giant" enterprises In China
- 河北省“专精特新”示范企业  
"Specialized and New" Demonstration Enterprise In Hebei
- 河北省制造业单项冠军企业  
Manufacturing Single Champion Enterprise In Hebei
- 河北省高新技术企业  
High-tech Enterprises In Hebei
- 国家知识产权优势企业  
Intellectual Property Advantage Enterprise In China
- 河北省锂电池电解液用功能材料技术创新中心  
Functional Materials Technology Innovation Center Of Lithium Battery Electrolyte In Hebei



# 资质荣誉

QUALIFICATIONS HONORS



## ◆ 企业研发 Enterprise R&D



- 公司拥有自建研究院,研发人员共计80余人。研究院内设有磷化学、硫化学、氟化学、硼化学、硅化学5个具有专业特色的项目研发部。

The company has a self-built research institute with a total of more than 80 R&D personnel. The research institute has five project departments with professional characteristics: phosphorus chemistry, sulfur chemistry, fluorine chemistry, boron chemistry, and silicon chemistry.

- 公司注重研发建设,拥有 LC-MS、GC-MS、IC、LC、GC、ICP-MS 等大型仪器设备 33 套,2023 年预计研发投入 3000 多万元。

The company pays attention to R&D, has 33 sets of large-scale instruments and equipment such as LC-MS, GC-MS, IC, LC, GC, and ICP-MS, and projects R&D investment of more than 30 million yuan in year 2023.

- 公司承接省市及企业自主研发项目 30 余项,成功实现产业化项目 15 项。

The company has undertaken more than 30 independent research and development projects of provinces, cities and enterprises, and successfully commercialized 15 industrialization projects.

## ◆ 知识产权及标准制定

### Intellectual Property and Standard Development

- 申请国内外专利 150 余件，其中国际专利 10 件，授权专利 43 件，授权 PCT 专利 6 件；  
Applied for 150 patents both at home and abroad, including 10 international patents, 43 authorized, 6 PCT patents authorized
- 主导制定相关标准共计 23 项；  
Leading the establishment of total 23 relevant standards
- 担任国家科技计划项目 1 项，省级科技项目 2 项，市级科技项目 6 项；  
Assuming 1 National Science and Technology Planning Project and 2 at provincial level, and 6 at municipal level.
- 拥有自主知识产权生产项目品种 7 个；拥有自主商标 14 项。  
Holding independent intellectual property rights for 7 production project and 14 independent trademarks

## ◆ 研发方向 R&D Direction

- 溶剂：氟代溶剂、硅代溶剂（阻燃，耐电压）  
Solvent: F-solvent、Si-solvent ( Using for Antiflaming、High Voltage )
- 新型锂盐：无机锂盐、有机锂盐  
New lithium salt: Inorganic lithium salt、Organic lithium salt
- 添加剂：含 P、S、Si、B、CN  
Additives: Functional groups contain P、S、Si CN etc products
- 凝胶电解液、固态电解质等  
Gel electrolyte、Solid electrolyte

# ◆ 产品介绍 Product Introduction

## 硫酸酯系列产品 Sulfate Series Products

产品名称:

硫酸乙烯酯 ( DTD )	CAS号: 1072-53-3	分子式: $C_2H_4O_4S$
4-甲基硫酸亚乙酯 ( PCS )	CAS号: 5689-83-8	分子式: $C_3H_6O_4S$
4-丙基硫酸亚乙酯 ( PEGLST )	CAS号: 165108-64-5	分子式: $C_5H_{10}O_4S$
硫酸丙烯酯 ( TS )	CAS号: 1073-05-8	分子式: $C_3H_6O_4S$
季戊四醇双环硫酸酯 ( TDT )	CAS号: 201419-80-9	分子式: $C_5H_8O_8S_2$
纯度: $\geq 99.5\%$	外观: 白色结晶	用途: 低温用锂电池电解液添加剂

Product Name:

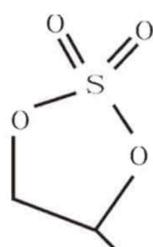
DTD	CAS No.: 1072-53-3	Molecular Formula: $C_2H_4O_4S$
PCS	CAS No.: 5689-83-8	Molecular Formula: $C_3H_6O_4S$
PEGLST	CAS No.: 165108-64-5	Molecular Formula: $C_5H_{10}O_4S$
TS	CAS No.: 1073-05-8	Molecular Formula: $C_3H_6O_4S$
TDT	CAS No.: 201419-80-9	Molecular Formula: $C_5H_8O_8S_2$

Purity:  $\geq 99.5\%$

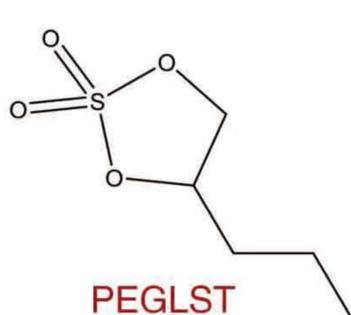
Purpose: Lithium Battery Electrolyte Additive For LT Performance



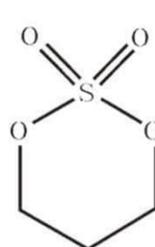
DTD



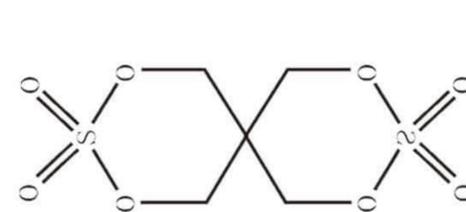
PCS



PEGLST



TS



TDT

## 磺酸酯系列产品 Sulfonate Series Products

产品名称： 甲烷二磺酸亚甲环酯 (MMDS)

CAS号： 99591-74-9

分子式：  $C_2H_4O_6S_2$

纯度：  $\geq 99.5\%$

外观： 白色结晶

用途： 高电压用锂电池电解液添加剂

Product Name: 1,5,2,4-Dioxadithiane 2,2,4,4-tetraoxide (MMDS)

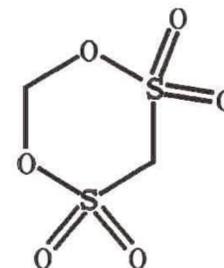
CAS NO. : 99591-74-9

Molecular Formula:  $C_2H_4O_6S_2$

Purity:  $\geq 99.5\%$

Appearance: White crystalline

Purpose: Lithium Battery Electrolyte Additive for High Voltage



产品名称： 1,3-丙烯磺酸内酯 (PST)

CAS号： 21806-61-1

分子式：  $C_3H_4O_3S$

纯度：  $\geq 99.5\%$

外观： 白色结晶

用途： 高电压用锂电池电解液添加剂

Product Name: Prop-1-ene-1,3-sultone (PST)

CAS NO. : 21806-61-1

Molecular Formula:  $C_3H_4O_3S$

Purity:  $\geq 99.5\%$

Appearance: White crystalline

Purpose: Lithium Battery Electrolyte Additive for High Voltage



## 联苯系列产品 Biphenyl Series Products

产品名称： 2-氟联苯(FBP)

CAS号： 321-60-8

分子式：  $C_{12}H_9F$

纯度：  $\geq 99.5\%$

外观： 白色结晶

用途： 防过充用锂电池电解液添加剂

Product Name: 2-Fluorobiphenyl(FBP)

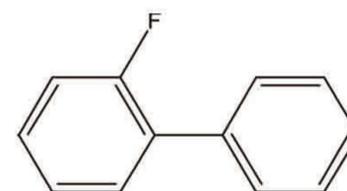
CAS NO. : 321-60-8

Molecular Formula:  $C_{12}H_9F$

Purity:  $\geq 99.5\%$

Appearance: : White crystalline

Purpose: Lithium Battery Electrolyte Additive For Overcharge



产品名称： 2,4-二氟联苯(DFBP)

CAS号： 37847-52-2

分子式：  $C_{12}H_8F_2$

纯度：  $\geq 99.5\%$

外观： 白色结晶

用途： 防过充用锂电池电解液添加剂

Product Name: 2,4-Difluorobiphenyl(DFBP)

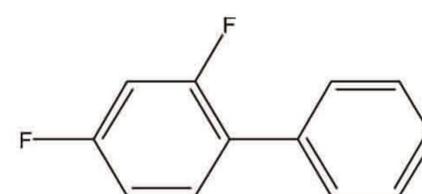
CAS NO. : 37847-52-2

Molecular Formula:  $C_{12}H_8F_2$

Purity:  $\geq 99.5\%$

Appearance: : White crystalline

Purpose: Lithium Battery Electrolyte Additive For Overcharge



# 磷酸酯系列产品 Phosphate Ester Series Products

产品名称:

三烯丙基磷酸酯(TAP)	CAS 号: 1623-19-4	分子式: $C_9H_{15}O_4P$
三炔丙基磷酸酯(TPP)	CAS 号: 1779-34-6	分子式: $C_9H_9O_4P$
磷酸三(2,2,2-三氟乙基)酯(TFEP)	CAS 号: 358-63-4	分子式: $C_6H_6F_9O_4P$
三(三甲基硅基)磷酸酯(TMSP)	CAS 号: 10497-05-9	分子式: $C_9H_{27}O_4PSi_3$
三(三甲基硅基)亚磷酸酯(TMSPi)	CAS 号: 1795-31-9	分子式: $C_9H_{27}O_3PSi_3$
纯度: $\geq 99.5\%$	外观: 无色液体	用途: 高电压用锂电池电解液添加剂

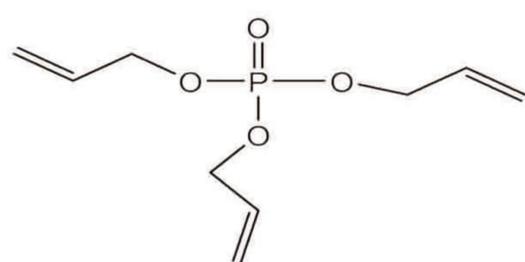
Product Name:

Triallylphosphat(TAP)	CAS No.: 1623-19-4	Molecular Formula: $C_9H_{15}O_4P$
2-Propyn-1-ol, 1,1',1''-phosphate(TPP)	CAS No.: 1779-34-6	Molecular Formula: $C_9H_9O_4P$
Tris(2,2,2-trifluoroethyl) phosphate(TFEP)	CAS No.: 358-63-4	Molecular Formula: $C_6H_6F_9O_4P$
Tris(Trimethylsilyl) Phosphate(TMSP)	CAS No.: 10497-05-9	Molecular Formula: $C_9H_{27}O_4PSi_3$
Tris(Trimethylsilyl) Phosphite(TMSPi)	CAS No.: 1795-31-9	Molecular Formula: $C_9H_{27}O_3PSi_3$

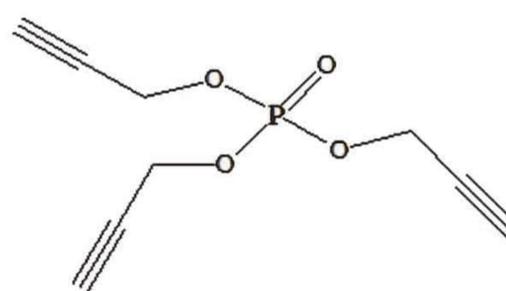
Purity:  $\geq 99.5\%$

Appearance: Colorless Liquid

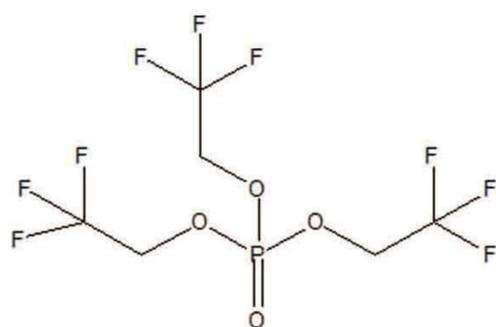
Purpose: Lithium Battery Electrolyte Additive For High Voltage



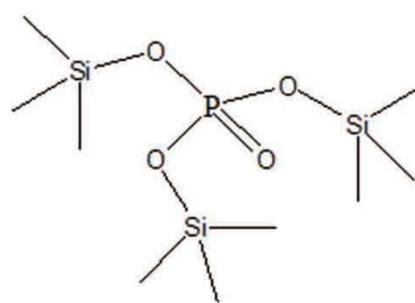
TAP



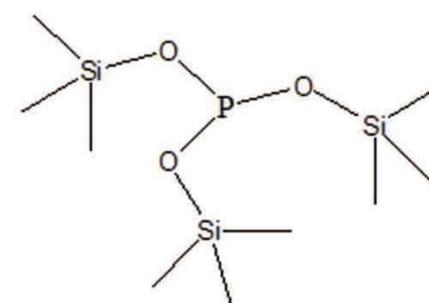
TPP



TFEP



TMSP



TMSPi

# 氟代溶剂系列产品 F-Solvent Series Products

产品名称:

甲基(2,2,2-三氟乙基)碳酸酯(FEMC)	CAS号: 156783-95-8	分子式: $C_4H_5F_3O_3$
二(2,2,2-三氟乙基)碳酸酯(FDEC)	CAS号: 1513-87-7	分子式: $C_5H_4F_6O_3$
2,2,2-三氟乙酸乙酯(TFEA)	CAS号: 406-95-1	分子式: $C_4H_5F_3O_2$
2,2-二氟乙酸乙酯(DFEA)	CAS号: 1550-44-3	分子式: $C_4H_6F_2O_2$
纯度: $\geq 99.5\%$	外观: 无色液体	用途: 高电压用锂电池电解液添加剂

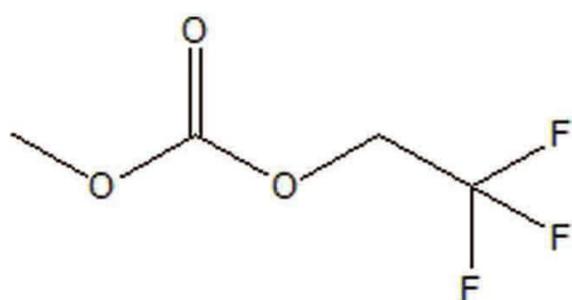
Product Name:

Methyl 2,2,2-trifluoroethyl carbonate(FEMC)	CAS No.: 156783-95-8	Molecular Formula: $C_4H_5F_3O_3$
Carbonic acid,2,2,2-trifluoroethanol (FDEC)	CAS No.: 1513-87-7	Molecular Formula: $C_5H_4F_6O_3$
2,2,2-Trifluoroethyl Acetate(TFEA)	CAS No.: 406-95-1	Molecular Formula: $C_4H_5F_3O_2$
2,2-Difluoroethyl Acetate(DFEA)	CAS No.: 1550-44-3	Molecular Formula: $C_4H_6F_2O_2$

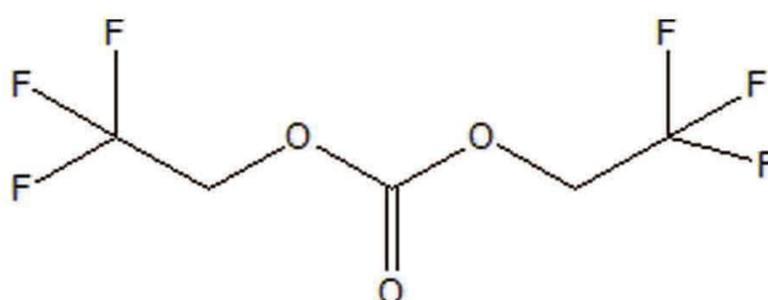
Purity:  $\geq 99.5\%$

Appearance: Colorless Liquid

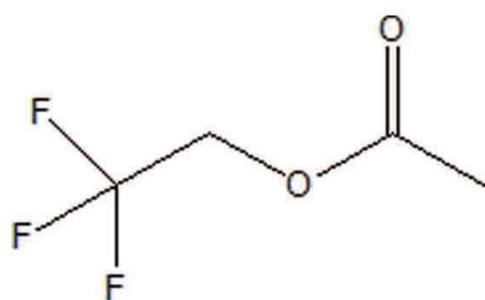
Purpose: Lithium Battery Electrolyte Additive For High Voltage



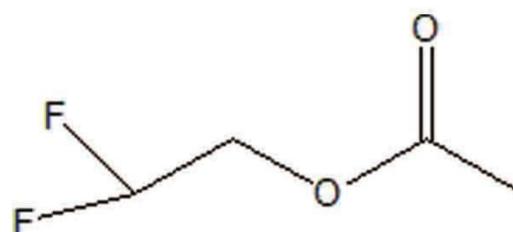
FEMC



FDEC



TFEA



DFEA

产品名称：2-氟吡啶

CAS号：372-48-5

分子式：C<sub>5</sub>H<sub>4</sub>FN

纯度：≥99.5%

外观：无色液体

用途：高电压用锂电池电解液添加剂

Product name: 2-Fluoropyridine

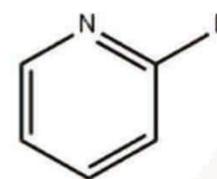
CAS No.: 372-48-5

Molecular Formula: C<sub>5</sub>H<sub>4</sub>FN

Purity: ≥99.5%

Appearance: Colorless Liquid

Purpose: Lithium Battery Electrolyte Additive For High Voltage



产品名称：1,2,3-三-(2-氰乙氧基)丙烷

CAS号：2465-93-2

分子式：C<sub>12</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub>

纯度：≥99.5%

外观：无色液体

用途：高电压用锂电池电解液添加剂

Product name: 1,2,3-Tris(2-Cyanoethoxy)propane

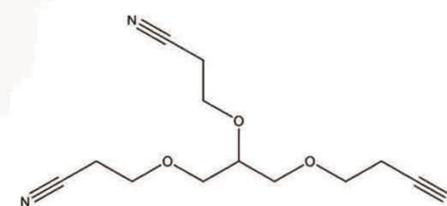
CAS No.: 2465-93-2

Molecular Formula: C<sub>12</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub>

Purity: ≥99.5%

Appearance: Colorless Liquid

Purpose: Lithium Battery Electrolyte Additive For High Voltage



产品名称：4,4'-联-1,3-二氧戊环-2,2'-二酮

CAS号：24690-44-6

分子式：C<sub>6</sub>H<sub>6</sub>O<sub>6</sub>

纯度：≥99.0%

外观：白色粉末

用途：高温用锂电池电解液添加剂

Product Name:

Erythritol 1,2,3,4-dicarbonate

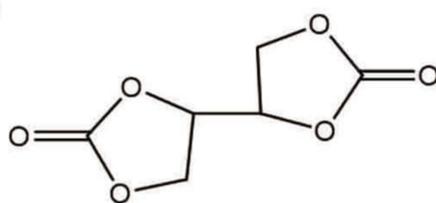
CAS No.: 24690-44-6

Molecular Formula: C<sub>6</sub>H<sub>6</sub>O<sub>6</sub>

Purity: ≥99.5%

Appearance: White powder

Purpose: Lithium Battery Electrolyte Additive For  
HT Performance



产品名称：2-丙炔-1-基1H-咪唑-1-羧酸酯

CAS号：83395-38-4

分子式：C<sub>7</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

纯度：≥99.0%

外观：白色粉末

用途：高电压用锂电池电解液添加剂

Product Name:

2-Propyn-1-yl 1H-imidazole-1-carboxylate

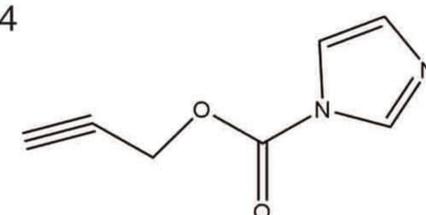
CAS No.: 83395-38-4

Molecular Formula: C<sub>7</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

Purity: ≥99.5%

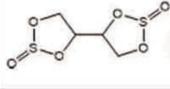
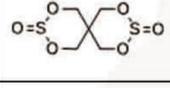
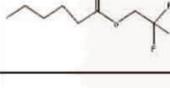
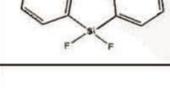
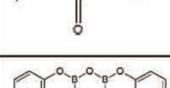
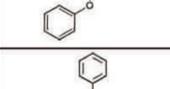
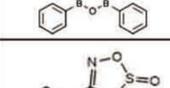
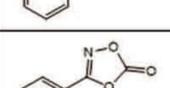
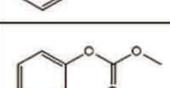
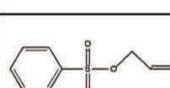
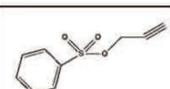
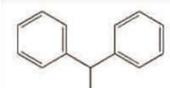
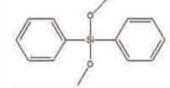
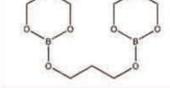
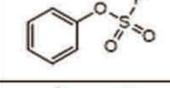
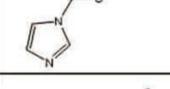
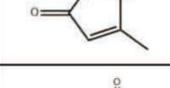
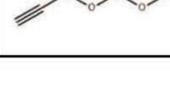
Appearance: White powder

Purpose: Lithium Battery Electrolyte Additive For  
High Voltage





## ◆ 产品清单

序号	名称	Product	CAS. NO	结构
1	4,4'-联二-[1,3,2]-二噁噻戊烷-2,2'-二氧化物	4,4'-Bi-1,3,2-dioxathiolane, 2,2'-dioxide	1914148-67-6	
2	2,4,8,10-四氧杂-3,9-二硫杂螺[5,5]十一烷3,9-二氧化物	2,4,8,10-tetraoxa-3,9-dithiaspiro[5.5]undecane 3,9-dioxide	3670-93-7	
3	己酸三氟乙醇酯	Hexanoic acid, 2,2,2-trifluoroethyl ester	2822-57-3	
4	二氟二苯基硅烷	Difluoro(diphenyl)silane	312-40-3	
5	氟乙酸乙酯	Ethyl fluoroacetate	459-72-3	
6	三苯氧基环硼氧烷	2,4,6-triphenoxy-1,3,5,2,4,6-trioxatriborinane	7187-84-0	
7	三苯环硼氧烷	Triphenylboroxin	3262-89-3	
8	5-phenyl-1,3,2,4-dioxathiazole 2-oxide	5-phenyl-1,3,2,4-dioxathiazole 2-oxide	19279-25-5	
9	3-苯基-1,4,2-二恶唑-5-酮	3-Phenyl-1,4,2-dioxazolidin-5-one	19226-36-9	
10	苯碳酸甲酯	Methyl phenyl carbonate	13509-27-8	
11	苯磺酸烯丙酯	Benzenesulfonic acid, 2-propenyl ester	7575-57-7	
12	苯磺酸炔丙酯	Propargyl benzenesulfonate	6165-75-9	
13	1,1-二苯基乙烷	1,1-Diphenylethane	612-00-0	
14	二苯基二甲氧基硅烷	Dimethoxydiphenylsilane	6843-66-9	
15	硼酸三亚甲酯	Trimethylene borate	20905-35-5	
16	Fluoridosulfuric acid phenyl ester	Fluoridosulfuric acid phenyl ester	330-00-7	
17	1-乙氧甲酰咪唑	1H-Imidazole-1-carboxylic acid	19213-72-0	
18	2-甲基马来酸酐	Citraconic anhydride	616-02-4	
19	甲基羧酸-2-丙炔基酯	Carbonic acid, methyl 2-propynyl ester	61764-71-4	

## PRODUCT LIST

序号	名称	Product	CAS. NO	结构
20	乙酸炔丙酯	Propargyl acetate	627-09-8	
21	丙酸甲酯	Methyl propanoate	554-12-1	
22	炔丙基碳酸乙酯	Ethyl propargyl carbonate	107820-22-4	
23	碳酸丙烯乙酯	Allyl Ethyl Carbonate	1469-70-1	
24	2-氰乙基三甲基硅烷	2-Cyanoethyltrimethylsilane	18151-32-1	
25	2,5-二氧杂己二酸二甲酯	Carbonic acid, C, C'-1,2-ethanediyl C, C'-dimethyl ester	88754-66-9	
26	2,5-二氧杂己二酸二乙酯	2,5-Dioxahexanedioic acid diethyl ester	35466-87-6	
27	2,4-丁磺酸内酯	3-Methyl-1,2-oxathiolane 2,2-dioxide	1121-03-5	
28	1,2-二(2-氰乙氧基)乙烷	1,2-Bis(2-cyanoethoxy) ethane	3386-87-6	
29	三(三甲代甲基硅烷基)硼酸盐	Tris(trimethylsilyl)borate	4325-85-3	
30	丁二腈 (固体晶体)	Succinonitrile(crystal)	110-61-2	
31	二草酸硼酸锂 (LiBOB)	Lithium bis(oxalato)borate	244761-29-3	
32	二氟草酸硼酸锂 (LiODFB)	Lithium difluoro(oxalato)borate(1-)	409071-16-5	
33	双氟磺酰亚胺锂 (LiFSI)	Lithium bis(fluorosulfonyl)azanide	171611-11-3	
34	二草酸硼酸钠 (NaBOB)	Sodium bis(oxalato)borate	83145-77-1	
35	二氟草酸硼酸钠 (NaODFB)	Sodium-difluoro(oxalato)borate	2102517-30-4	
36	二氟磷酸锂	Lithium difluorophosphate	24389-25-1	
37	四乙烯硅烷	Tetravinylsilane	1112-55-6	

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**SunTec**  
**圣泰材料**

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