



# 检测报告

## Test Report

报告编号 A2260136800101001E  
Report No. A2260136800101001E

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报告抬头公司名称 安徽富信半导体科技有限公司  
**Company Name** ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.  
**shown on Report**  
地 址 安徽省马鞍山市郑蒲港新区金蒲电子信息产业园 1#东侧  
**Address** EAST OF NO.1, JINPU ELECTRONIC INFORMATION INDUSTRIAL PARK,  
ZHENGPU PORT NEW DISTRICT, MAANSHAN CITY, ANHUI PROVINCE, CHINA

以下测试之样品及样品信息由申请者提供并确认

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

样品名称	半导体分立器件
Sample Name	Semiconductor discrete devices
样品型号	半导体分立器件
Model No.	Semiconductor discrete devices
样品接收日期	2026.02.28
Sample Received Date	Feb. 28, 2026
样品检测日期	2026.02.28-2026.03.06
Testing Period	Feb. 28, 2026 to Mar. 6, 2026

### 测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).

批准

Approved by

陈凯敏

陈凯敏

实验室经理 Lab Manager

日期

Date

2026.03.06

No. R794243621

上海市闵行区万芳路 1351 号

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上海华测品标检测技术有限公司

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

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### 测试摘要 Executive Summary:

#### 测试要求

##### **TEST REQUEST**

欧盟持久性有机污染物(POPs)法规(EU) 2019/1021 及其修订指令  
Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) and its  
amendments

- 多溴二苯醚  
Polybrominated Diphenyl Ethers (PBDEs)
- 全氟辛烷磺酸(PFOS)及其盐和相关物质  
Perfluorooctane sulfonic acid (PFOS) and its salts & related substances
- 六溴环十二烷  
Hexabromocyclododecane (HBCDD)
- 短链氯化石蜡  
Short Chain Chlorinated Paraffins (SCCPs)
- 滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷)  
DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)
- 氯丹  
Chlordane
- 六氯环己烷, 包括林丹  
Hexachlorocyclohexanes, including Lindane
- 狄氏剂  
Dieldrin
- 异狄氏剂  
Endrin
- 七氯  
Heptachlor
- 硫丹  
Endosulfan
- 十氯酮  
Chlordecone
- 艾氏剂  
Aldrin
- 灭蚁灵  
Mirex

#### 测试结果

##### **CONCLUSION**

- 见结果页  
See test result(s)

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- 毒杀芬 Toxaphene	见结果页 See test result(s)
- 六氯苯 Hexachlorobenzene	见结果页 See test result(s)
- 六溴联苯 Hexabromobiphenyl	见结果页 See test result(s)
- 五氯苯 Pentachlorobenzene	见结果页 See test result(s)
- 多氯联苯 Polychlorinated Biphenyls(PCBs)	见结果页 See test result(s)
- 多氯化萘 Polychlorinated Naphthalenes (PCNs)	见结果页 See test result(s)
- 六氯丁二烯 Hexachlorobutadiene (HCBd)	见结果页 See test result(s)
- 五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters	见结果页 See test result(s)
- 全氟辛酸(PFOA)及其盐和相关物质 Perfluorooctanoic acid (PFOA) and its salts & related substances	见结果页 See test result(s)
- 三氯杀螨醇 Dicofol	见结果页 See test result(s)
- 全氟己基磺酸(PFHxS)及其盐和相关物质 Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances	见结果页 See test result(s)
- 甲氧滴滴涕 Methoxychlor	见结果页 See test result(s)
- 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚(UV-328) 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	见结果页 See test result(s)
- 得克隆 (包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	见结果页 See test result(s)

\*\*\*\*\*详细结果, 请见下页\*\*\*\*\*

\*\*\*\*\* For further details, please refer to the following page(s) \*\*\*\*\*

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**欧盟持久性有机污染物(POPs)法规(EU) 2019/1021 及其修订指令 Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) and its amendments**

**▼多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)**

测试方法: IEC 62321-6:2015; 测试仪器: GC-MS

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	2	--
五溴二苯醚 Pentabromodiphenyl ether	N.D.	2	--
六溴二苯醚 Hexabromodiphenyl ether	N.D.	2	--
七溴二苯醚 Heptabromodiphenyl ether	N.D.	2	--
十溴二苯醚 Decabromodiphenyl ether	N.D.	2	--
总和 Total	N.D.	--	10

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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**▼ 全氟辛烷磺酸(PFOS)及其盐和相关物质 Perfluorooctane sulfonic acid (PFOS) and its salts & related substances**

测试方法: 参考 EN 17681-1:2025\*<sup>1</sup>; 测试仪器: LC-MS-MS&GC-MS-MS

Test Method: Refer to EN 17681-1:2025\*<sup>1</sup>; Test Equipment: LC-MS-MS&GC-MS-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001		
PFOS 及其盐 PFOS and its salts*	-	N.D.	0.010	--
<b>全氟辛烷磺酸(PFOS)及其盐</b> <b>Perfluorooctane sulfonic acid (PFOS) and its salts</b>	-	N.D.	--	0.025
全氟辛基磺酰氟 Perfluoro-1-octanesulfonyl fluoride (PFOSF)	307-35-7	N.D.	0.010	--
氟虫胺 N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.050	--
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- 十七氟-N-甲基-辛磺酰胺 N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.050	--
N-乙基全氟辛基磺酰胺乙醇 2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.050	--
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- 十七氟-N-(2-羟乙基)-N-甲基-1-辛基磺酰胺 2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.050	--
PFOSA 及其盐 PFOSA and its salts*	-	N.D.	0.010	--
N-Me-FOSAA 及其盐 N-Me-FOSAA and its salts*	-	N.D.	0.050	--
N-Et-FOSAA 及其盐 N-Et-FOSAA and its salts*	-	N.D.	0.050	--
FOSAA 及其盐 FOSAA and its salts*	-	N.D.	0.010	--
EtFOSEdiPAPs 及其盐 EtFOSEdiPAPs and its salts*	-	N.D.	0.050	--
2-(N-乙基全氟辛烷磺酰基)丙烯酸乙酯 2-(N-Ethyl-N-(perfluorooctylsulfonyl)amino)ethyl acrylate (EtFOSAC)	423-82-5	N.D.	0.200	--
<b>全氟辛烷磺酸(PFOS)相关物质</b> <b>Perfluorooctane sulfonic acid (PFOS) related substances</b>	-	N.D.	--	1

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- \* = PFOS 及其盐和相关物质清单中列出的物质 The substances listed in the List of PFOS and its salts & related substances

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**PFOS 及其盐和相关物质清单 List of PFOS and its salts & related substances**

序号 No.	组名 Group Name	物质名称 Substance Name(s)	CAS No.
<b>全氟辛烷磺酸(PFOS)及其盐 Perfluorooctane sulfonic acid (PFOS) and its salts</b>			
1	PFOS 及其盐 PFOS and its salts	全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	1763-23-1
2		全氟辛基磺酸钾 Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3
3		全氟辛基磺酸锂 Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
4		全氟辛基磺酸钠 Sodium perfluorooctane sulfonate (PFOS-Na)	4021-47-0
5		全氟辛基磺酸镁 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, magnesium salt (2:1) (PFOS-Mg)	91036-71-4
6		全氟辛基磺酸铵 Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9
7		全氟辛基磺酸二乙醇铵 Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	70225-14-8
8		全氟辛基磺酸四乙基铵 Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	56773-42-3
9		全氟辛烷磺酸四丁基铵 Tetrabutylammonium perfluorooctanesulfonate (PFOS-NH(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	111873-33-7
10		全氟辛基磺酸二癸二甲基铵 Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)	251099-16-8
11		全氟辛基磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-octanesulfonate	71463-74-6
12		全氟辛基磺酸四甲基铵 Tetramethylammonium perfluorooctane sulfonate (PFOS-C <sub>4</sub> H <sub>12</sub> N)	56773-44-5
13		全氟辛基磺酸二乙胺 Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)	2205029-08-7
14		全氟辛基磺酸三乙胺 Triethylammonium perfluorooctane sulfonate (PFOS-C <sub>6</sub> H <sub>15</sub> N)	54439-46-2
15		全氟辛基磺酸三丁基甲基胺 N,N-Dibutyl-N-methylbutan-1-aminium heptafluoro-octane-1-sulfonate (PFOS-C <sub>13</sub> H <sub>30</sub> N)	124472-68-0
16		全氟辛基磺酸戊基(三丙基)氮胺 N,N,N-Tripropylpentan-1-aminium heptafluoro-octane-1-sulfonate (PFOS-C <sub>14</sub> H <sub>32</sub> N)	56773-56-9
17		全氟辛基磺酸四丁基磷 Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-C <sub>16</sub> H <sub>36</sub> P)	2185049-59-4
18		全氟辛基磺酸庚基二甲基-[2-(2-甲基丙-2-烯酰氧基)乙基]胺 Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptafluoro-octane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )	1203998-97-3
19		全氟辛基磺酸双[4-(1,1-二甲基乙基)苯基]-碘鎓 Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1) (PFOS-C <sub>20</sub> H <sub>26</sub> I)	213740-80-8
20		全氟辛基磺酸二苯基(2,4,6-三甲基苯基)硫 Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate (PFOS-C <sub>21</sub> H <sub>21</sub> S)	258341-99-0
21		全氟辛基磺酸十六烷基吡啶 1-Hexadecylpyridinium perfluoro-1-octanesulfonate (PFOS-C <sub>21</sub> H <sub>38</sub> N)	334529-63-4
22		全氟辛基磺酸酐 Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7

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23		N,N,N-三乙基癸-1-胺十七氟辛烷-1-磺酸盐 N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-C <sub>16</sub> H <sub>36</sub> N)	773895-92-4
24		全氟辛烷磺酸盐 Perfluorooctanesulfonate (PFOS (anion))	45298-90-6
25		全氟辛基磺酰氯 Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9
26		全氟辛基磺酸镱 Bis(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate);ytterbium(2+) (PFOS-Yb <sup>2+</sup> )	-
27		全氟辛基磺酸银 Silver perfluorooctanesulfonate (PFOS-Ag)	-
28		全氟辛基磺酸铟 Tris(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate);indium(3+) (PFOS-In <sup>3+</sup> )	-
29		全氟辛基磺酸镉 Cadmium(2+);bis(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate) (PFOS-Cd <sup>2+</sup> )	-
<b>全氟辛烷磺酸(PFOS)相关物质 Perfluorooctane sulfonic acid (PFOS) related substances</b>			
30	--	全氟辛基磺酰氟 Perfluoro-1-octanesulfonyl fluoride (PFOSF)	307-35-7
31	--	氟虫胺 N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2
32	--	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-甲基-辛磺酰胺 N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8
33	--	N-乙基全氟辛基磺酰胺乙醇 2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2
34	--	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-(2-羟乙基)-N-甲基-1-辛基磺酰胺 2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7
35	PFOSA 及其盐 PFOSA and its salts	全氟辛基磺酰胺 Perfluorooctanesulfonamide (PFOSA)	754-91-6
36		全氟辛基磺酰胺锂盐(1:1) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
37		全氟辛基磺酰胺钠盐(1:1) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
38		全氟辛基磺酰胺钾盐(1:1) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
39		全氟辛基磺酰胺铵盐(1:1) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )	76752-72-2
40		全氟辛基磺酰胺三乙胺 Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)	76752-82-4
41	N-Me-FOSAA 及其盐 N-Me-FOSAA and its salts	N-(十七氟辛基磺酰基)-N-甲基甘氨酸 N-Methyl perfluorooctanesulfonamidoacetic acid (N-Me-FOSAA)	2355-31-9
42		N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
43		N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA (anion))	909405-48-7
44	N-Et-FOSAA 及其盐 N-Et-FOSAA and its salts	N-乙基-N-((十七氟辛基)磺酰基)甘氨酸 N-ethyl-N-[(heptadecafluorooctyl)sulphonyl] glycine (N-Et-FOSAA)	2991-50-6
45		N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
46		N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
47		N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 Ammonium 2-(N-ethylperfluorooctanesulfonamido) acetate (N-Et-FOSAA-NH <sub>4</sub> )	2991-52-8
48		N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA (anion))	909405-49-8

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49	FOSAA 及其盐 FOSAA and its salts	全氟辛烷磺酰氨基乙酸 Glycine, N-[(heptadecafluorooctyl)sulfonyl]- (FOSAA)	2806-24-8
50		全氟辛烷磺酰氨基乙酸钾 N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
51		全氟辛烷磺酰氨基乙酸钠 N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
52		全氟辛烷磺酰氨基乙酸盐 N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA (anion))	909405-47-6
53	EtFOSEdiPAPs 及其盐 EtFOSEdiPAPs and its salts	双(2-全氟辛基磺酰基-N-氨基乙基)磷酸 Bis[2-[N-ethyl(heptadecafluorooctanesulphonyl)amino]ethyl]hydrogen phosphate (EtFOSEdiPAPs)	2965-52-8
54		双(2-全氟辛基磺酰基-N-氨基乙基)磷酸铵 Ammonium bis(N-ethyl-2-perfluorooctylsulfonaminoethyl)phosphate (EtFOSEdiPAPs-NH <sub>4</sub> )	30381-98-7
55		双(3-全氟辛基磺酰基-N-氨基乙基)磷酸钠 Sodium bis[2-(N-ethylperfluorooctane-1-sulfonamido)ethyl] phosphate (EtFOSEdiPAPs-Na)	23282-60-2
56	--	2-(N-乙基全氟辛烷磺酰胺基)丙烯酸乙酯 2-(N-Ethyl-N-(perfluorooctylsulfonyl)amino)ethyl acrylate (EtFOSAC)	423-82-5

## ▼ 六溴环十二烷 Hexabromocyclododecane (HBCDD)

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001		
六溴环十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	N.D.	5	75

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- “六溴环十二烷(HBCDD)”指: 六溴环十二烷(HBCDD)、1,2,5,6,9,10-六溴环十二烷及其非对映异构体 ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD)  
'Hexabromocyclododecane (HBCDD)' means: Hexabromocyclododecane (HBCDD), 1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers:  $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD

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### ▼ 短链氯化石蜡 Short Chain Chlorinated Paraffins (SCCPs)

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS(NCI)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS(NCI)

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
短链氯化石蜡 Short Chain Chlorinated Paraffins (SCCPs)	N.D.	100	1500

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷) DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷) DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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### ▼ 氯丹 Chlordane

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
氯丹 Chlordane	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 六氯环己烷, 包括林丹 Hexachlorocyclohexanes, including Lindane

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
六氯环己烷, 包括林丹 Hexachlorocyclohexanes, including Lindane	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 狄氏剂 Dieldrin

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
狄氏剂 Dieldrin	N.D.	5	N.D.

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备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **异狄氏剂 Endrin**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*1; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*1; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
异狄氏剂 Endrine	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **七氯 Heptachlor**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*1; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*1; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
七氯 Heptachlor	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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### ▼ 硫丹 Endosulfan

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
硫丹 Endosulfan	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 十氯酮 Chlordecone

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
十氯酮 Chlordecone	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 艾氏剂 Aldrin

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
艾氏剂 Aldrin	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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### ▼ 灭蚁灵 Mirex

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
灭蚁灵 Mirex	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 毒杀芬 Toxaphene

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
毒杀芬 Toxaphene	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 六氯苯 Hexachlorobenzene

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
六氯苯 Hexachlorobenzene	N.D.	5	10

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备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **六溴联苯 Hexabromobiphenyl**

测试方法: IEC 62321-6:2015; 测试仪器: GC-MS

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001	
六溴联苯 Hexabromobiphenyl	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **五氯苯 Pentachlorobenzene**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*1; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*1; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001	
五氯苯 Pentachlorobenzene	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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▼ **多氯联苯 Polychlorinated Biphenyls(PCBs)**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
多氯联苯 Polychlorinated Biphenyls(PCBs)	N.D.	0.2	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **多氯化萘 Polychlorinated Naphthalenes (PCNs)**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
多氯化萘 Polychlorinated Naphthalenes (PCNs)	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **六氯丁二烯 Hexachlorobutadiene (HCBd)**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
六氯丁二烯 Hexachlorobutadiene	N.D.	20	N.D.

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备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters**

测试方法: 参考 ISO 17070:2015\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to ISO 17070:2015\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters	N.D.	1	5

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- 五氯苯酚及其盐和酯的结果以五氯苯酚计。

The test result of Pentachlorophenol and its salts and esters is calculated by Pentachlorophenol.

▼ **全氟辛酸(PFOA)及其盐和相关物质 Perfluorooctanoic acid (PFOA) and its salts & related substances**

测试方法: 参考 EN 17681-1:2025\*<sup>1</sup>; 测试仪器: LC-MS-MS&GC-MS-MS

Test Method: Refer to EN 17681-1:2025\*<sup>1</sup>; Test Equipment: LC-MS-MS&GC-MS-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001		
PFOA 及其盐 PFOA and its salts*	-	N.D.	0.010	--
全氟辛酸(PFOA)及其盐 Perfluorooctanoic acid (PFOA) and its salts	-	N.D.	--	0.025
全氟辛酸甲酯 Methyl perfluorooctanoate (Me-PFOA)	376-27-2	N.D.	0.200	1
全氟辛酸乙酯 Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	N.D.	0.200	1
全氟正辛基碘烷 Perfluorooctyl iodide (PFOI)	507-63-1	N.D.	0.200	1
1H,1H,2H,2H-全氟-1-癸醇 1H,1H,2H,2H- Perfluoro-1-decanol (8:2 FTOH)	678-39-7	N.D.	0.200	1

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		001		
8:2 FTS 及其盐 8:2 FTS and its salts*	-	N.D.	0.200	1
丙烯酸 1H,1H,2H,2H-十七氟癸酯 1,1,2,2-Tetrahydroperfluorodecyl acrylate (8:2 FTAC)	27905-45-9	N.D.	0.200	1
2-(全氟辛基)乙基甲基丙烯酸酯 2-Propenoic acid,2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hepta-decafluorodecyl ester (8:2 FTMA)	1996-88-9	N.D.	0.200	1
1H,1H,2H,2H-全氟癸基三乙氧基硅烷 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (PFSI)	101947-16-4	N.D.	0.200	1
1-碘-1H,1H,2H,2H-全氟癸烷 Decane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hepta-decafluoro-10-iodo- (8:2 FTI)	2043-53-0	N.D.	0.200	1
8:2diPAP 及其盐 8:2diPAP and its salts*	-	N.D.	0.200	1
2H,2H-全氟癸酸 2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA)	27854-31-5	N.D.	0.010	1
四丁基磷 2H,2H-全氟癸酸酯 Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	882489-14-7	N.D.	0.010	1
H <sub>4</sub> PFUnA 及其盐 H <sub>4</sub> PFUnA and its salts*	-	N.D.	0.010	1
全氟辛基乙烯 1-Decene,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hepta-decafluoro- (PFOE)	21652-58-4	N.D.	0.200	1
全氟癸基三氯硅烷 Perfluorooctylethyltrichlorosilane (FDTS)	78560-44-8	N.D.	0.200	1
全氟癸基三甲氧基硅烷 Perfluorooctylethyltrimethoxysilane (FDTMOS)	83048-65-1	N.D.	0.200	1
10:2 diPAP 及其盐 10:2 diPAP and its salts*	-	N.D.	0.200	1
8:2 monoPAPS 及其盐 8:2 monoPAPS and its salts*	-	N.D.	0.200	1
2H-全氟-2-癸烯酸 2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	N.D.	0.010	1
C8-14-全氟烷基乙醇 Alcohols,C8-14,gamma-omega-perfluoro (C8-14-PFEtOH)	68391-08-2	N.D.	0.200	1
2-全氟辛基乙酰乙酸酯 1H,1H,2H,2H-Perfluorodecyl acetate (8:2FTOAc)	37858-04-1	N.D.	0.200	1
8:8 PFPi 及其盐 8:8 PFPi and its salts*	-	N.D.	0.010	1
PFOPA 及其盐 PFOPA and its salts*	-	N.D.	0.010	1
1H,1H,2H,2H-全氟癸基乙酸酯 1H,1H,2H,2H-Perfluorododecyl acetate (10:2FTOAc)	37858-05-2	N.D.	0.200	1
3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-十五氟-2-壬醇 7:2 sFluorotelomer alcohol (7:2sFTOH)	24015-83-6	N.D.	0.200	1
1H,1H-全氟辛基胺 1H,1H-Perfluorooctylamine (7:1 FTNH <sub>2</sub> )	307-29-9	N.D.	0.200	1
6:8 PFPi 及其盐 6:8 PFPi and its salts*	-	N.D.	0.010	1

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001		
全氟辛酸(PFOA)相关物质 Perfluorooctanoic acid (PFOA) related substances	-	N.D.	--	1

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- \* = PFOA 及其盐和相关物质清单中列出的物质 The substances listed in the List of PFOA and its salts & related substances

### PFOA 及其盐和相关物质清单 List of PFOA and its salts & related substances

序号 No.	组名 Group Name	物质名称 Substance Name(s)	CAS No.
<b>全氟辛酸(PFOA)及其盐 Perfluorooctanoic acid (PFOA) and its salts</b>			
1	PFOA 及其盐 PFOA and its salts	全氟辛酸 Perfluorooctanoic acid (PFOA)	335-67-1
2		全氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
3		全氟辛酸钠 Sodium perfluorooctanoate (PFOA-Na)	335-95-5
4		全氟辛酸钾 Potassium perfluorooctanoate (PFOA-K)	2395-00-8
5		全氟辛酸锂 Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
6		全氟辛酸银 Silver perfluorooctanoate (PFOA-Ag)	335-93-3
7		全氟辛氟 Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
8		全氟辛酸铯 Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
9		全氟辛酸钴 Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
10		全氟辛酸铬 Chromium(III) perfluorooctanoate (PFOA-Cr)	68141-02-6
11		全氟辛酸四乙基铵 N,N,N-Triethylethanaminium perfluorooctanoate (PFOA-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	98241-25-9
12		全氟辛酸四丙基铵 Tetrapropylammonium perfluorooctanoate (PFOA-NH(C <sub>3</sub> H <sub>7</sub> ) <sub>4</sub> )	277749-00-5
13		全氟辛酸 N,N,N-三甲基甲烷 Perfluorooctanoate N,N,N-Trimethylmethanaminium (PFOA-NH(C <sub>4</sub> H <sub>11</sub> ) <sub>3</sub> )	32609-65-7
14		全氟辛酸-哌嗪 Pentadecafluorooctanoic acid-piperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))	423-52-9
15		全氟辛酸钾水合物 Potassium pentadecafluorooctanoate-water (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )	98065-31-7
16		全氟辛酸乙胺 Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)	1376936-03-6
17		全氟辛酸吡啶 Pentadecafluorooctanoic acid-pyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)	95658-47-2
18		全氟辛酸苯基哌嗪 Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )	1514-68-7
19		全氟辛酸辛基三甲基铵 N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)	927835-01-6
20		全氟辛酸酐 Perfluorooctanoic Anhydride (PFOAA)	33496-48-9

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21		全氟辛酸盐 Pentadecafluorooctanoate (anion) (PFOA (anion))	45285-51-6
22		全氟辛酸氯 Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8
<b>全氟辛酸(PFOA)相关物质 Perfluorooctanoic acid (PFOA) related substances</b>			
23	--	全氟辛酸甲酯 Methyl perfluorooctanoate (Me-PFOA)	376-27-2
24	--	全氟辛酸乙酯 Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5
25	--	全氟正辛基碘烷 Perfluorooctyl iodide (PFOI)	507-63-1
26	--	1H,1H,2H,2H-全氟-1-癸醇 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
27		1H,1H,2H,2H-全氟癸磺酸 1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4
28		1H,1H,2H,2H-全氟癸磺酸钠 1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium (8:2 FTS-Na)	27619-96-1
29	8:2 FTS 及其盐	1H,1H,2H,2H-全氟癸磺酸钾 Potassium 2-(perfluorooctyl)ethane-1-sulfonate (8:2 FTS-K)	438237-73-1
30	8:2 FTS and its salts	1H,1H,2H,2H-全氟癸磺酸铵 8:2 Fluorotelomer sulfonate ammonium salt (8:2 FTS-NH <sub>4</sub> )	149724-40-3
31		1H,1H,2H,2H-全氟癸磺酸盐 2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS (anion))	481071-78-7
32		1H,1H,2H,2H-全氟癸磺酰氯 2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)	27619-90-5
33	--	丙烯酸 1H,1H,2H,2H-十七氟癸酯 1,1,2,2-Tetrahydroperfluorodecyl acrylate (8:2 FTAC)	27905-45-9
34	--	2-(全氟辛基)乙基甲基丙烯酸酯 2-Propenoic acid,2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester (8:2 FTMA)	1996-88-9
35	--	1H,1H,2H,2H-全氟癸基三乙氧基硅烷 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (PFSI)	101947-16-4
36	--	1-碘-1H,1H,2H,2H-全氟癸烷 Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-10-iodo- (8:2 FTI)	2043-53-0
37		双(2-(全氟乙基))磷酸 8:2 Fluorotelomer phosphate diester (8:2diPAP)	678-41-1
38	8:2diPAP 及其盐	双(2-(全氟乙基))磷酸钠 Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
39	8:2diPAP and its salts	双(2-(全氟乙基))磷酸铵 Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-NH <sub>4</sub> )	93776-20-6
40		双(2-(全氟乙基))磷酸二乙醇胺 Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate (8:2diPAP-C <sub>4</sub> H <sub>11</sub> NO <sub>2</sub> )	57677-97-1
41		双(2-(全氟乙基))磷酸盐 8:2 Fluorotelomer phosphate diester ion (1-) (8:2diPAP (anion))	1411713-91-1
42	--	2H,2H-全氟癸酸 2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA)	27854-31-5
43	--	四丁基磷 2H,2H-全氟癸酸酯 Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	882489-14-7
44	H <sub>4</sub> PFUnA 及其盐	2H,2H,3H,3H-全氟十一酸 2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>4</sub> PFUnA)	34598-33-9
45	H <sub>4</sub> PFUnA and its salts	3-(全氟辛基)丙酸钾 Potassium 3-(perfluorooctyl)propanoate (H <sub>4</sub> PFUnA-K)	83310-58-1
46		2H,2H,3H,3H-全氟十一酸锂 Lithium 3-(perfluorooctyl)propanoate (H <sub>4</sub> PFUnA-Li)	67304-23-8
47	--	全氟辛基乙烯 1-Decene,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- (PFOE)	21652-58-4
48	--	全氟癸基三氯硅烷 Perfluorooctylethyltrichlorosilane (FDTS)	78560-44-8

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49	--	全氟癸基三甲氧硅烷 Perfluorooctylethyltrimethoxysilane (FDTMOS)	83048-65-1
50	10:2 diPAP 及其盐	双[2-(全氟癸基)乙基]磷酸酯 Bis[2-(perfluorodecyl)ethyl] Phosphate (10:2 diPAP)	1895-26-7
51	10:2 diPAP and its salts	2,2'-亚氨基二乙醇双[2-(全氟癸基)乙基]磷酸盐 Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C <sub>4</sub> H <sub>11</sub> O <sub>2</sub> )	57677-98-2
52	8:2 monoPAPS 及其盐	十七氟-1-癸醇磷酸二氢酯 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate (8:2 monoPAPS)	57678-03-2
53		8:2 氟调聚物磷酸单酯钠盐 Sodium 1H,1H,2H,2H-perfluorodecyl phosphate (8:2 monoPAPS-Na)	92678-93-8
54		8:2 氟调聚物磷酸单酯二钠盐 Disodium 1H,1H,2H,2H-perfluorodecylphosphate (8:2 monoPAPS-Na <sub>2</sub> )	438237-75-3
55	8:2 monoPAPS and its salts	8:2 氟调聚物磷酸单酯二铵盐 8:2 Fluorotelomer diammonium phosphate (8:2 monoPAPS-NH <sub>4</sub> NH <sub>4</sub> )	93857-44-4
56	--	2H-全氟-2-癸烯酸 2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2
57	--	C8-14-全氟烷基乙醇 Alcohols, C8-14, gamma-omega-perfluoro (C8-14-PFetOH)	68391-08-2
58	--	2-全氟辛基乙酸酯 1H,1H,2H,2H-Perfluorodecyl acetate (8:2FTOAc)	37858-04-1
59	8:8 PFPi 及其盐 8:8 PFPi and its salts	8:8 全氟次膦酸 Bis(heptadecafluorooctyl)phosphinic acid (8:8 PFPi)	40143-79-1
60		8:8 全氟次膦酸钠盐 Sodium bis(perfluorooctyl)phosphinate (8:8 PFPi-Na)	500776-69-2
61		8:8 全氟次膦酸铈盐 Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5
62		8:8 全氟次膦酸镱盐 Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6
63	PFOPA 及其盐 PFOPA and its salts	全氟辛基膦酸(Perfluorooctyl)phosphonic acid (PFOPA)	40143-78-0
64		全氟辛基膦酸-4-甲基苄胺(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (PFOPA-C <sub>8</sub> H <sub>9</sub> NO)	1263361-03-0
65	--	1H,1H,2H,2H-全氟癸基乙酸酯 1H,1H,2H,2H-Perfluorododecyl acetate (10:2FTOAc)	37858-05-2
66	--	3,3,4,4,5,5,6,6,7,7,8,8,9,9-十五氟-2-壬醇 7:2 sFluorotelomer alcohol (7:2sFTOH)	24015-83-6
67	--	1H,1H-全氟辛基胺 1H,1H-Perfluorooctylamine (7:1 FTNH <sub>2</sub> )	307-29-9
68	6:8 PFPi 及其盐 6:8 PFPi and its salts	6:8 全氟次膦酸 Perfluorohexylperfluorooctyl phosphinic acid (6:8 PFPi)	610800-34-5
69		6:8 全氟次膦酸钠 Sodium perfluorohexylperfluorooctylphosphinate (6:8 PFPi-Na)	2361298-14-6

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**▼ 三氯杀螨醇 Dicofol**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
三氯杀螨醇 Dicofol	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

**▼ 全氟己基磺酸(PFHxS)及其盐和相关物质 Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances**

测试方法: 参考 EN 17681-1:2025\*<sup>1</sup>; 测试仪器: LC-MS-MS&GC-MS-MS

Test Method: Refer to EN 17681-1:2025\*<sup>1</sup>; Test Equipment: LC-MS-MS&GC-MS-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001		
PFHxS 及其盐 PFHxS and its salts*	-	N.D.	0.010	--
全氟己基磺酸(PFHxS)及其盐 Perfluorohexanesulfonic acid (PFHxS) and its salts	-	N.D.	--	0.025
全氟己基磺酰胺 1-Hexane-sulfonamide,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (FHxSA)	41997-13-1	N.D.	0.010	--
N-甲基全氟己烷磺酰胺 N-methylperfluorohexanesulfonamide (MeFHxSA)	68259-15-4	N.D.	0.200	--
N-AP-FHxSA 及其盐 N-AP-FHxSA and its salts*	-	N.D.	0.010	--
丙烯酸(N-甲基全氟己基磺酰胺基)乙酯 (N-Methylperfluorohexanesulfonamido)ethyl acrylate (N-MeFHxSA-EA)	67584-57-0	N.D.	0.200	--
EtFHxSAA 及其盐 EtFHxSAA and its salts*	-	N.D.	0.010	--
N-乙基-1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-N-(2-羟乙基)-1-己磺酰胺 N-ethyltridecafluoro-N-(2-hydroxyethyl)hexanesulphonamide (Et-FHxSE)	34455-03-3	N.D.	0.100	--
2-[甲基[(三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯 2-(Methyl((tridecafluorohexyl)sulphonyl)amino)ethyl methacrylate (N-MeFHxSA-EE)	67584-61-6	N.D.	0.100	--

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		001		
2-[乙基[(十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯 2-(Ethyl((tridecafluorohexyl)sulphonyl amino)ethyl methacrylate (N-EtFHxSA-EE)	67906-70-1	N.D.	0.100	--
十三氟-N-(2-羟基乙基)-N-甲基己烷磺酰胺 Tridecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hexanesulfonamide (MeFHxSE)	68555-75-9	N.D.	0.100	--
全氟己基磺酸(PFHxS)相关物质 Perfluorohexanesulfonic acid (PFHxS) related substances	-	N.D.	--	1

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- \* = PFHxS 及其盐和相关物质清单中列出的物质 The substances listed in the List of PFHxS and its salts & related substances

## PFHxS 及其盐和相关物质清单 List of PFHxS and its salts & related substances

序号 No.	组名 Group Name	物质名称 Substance Name(s)	CAS No.
<b>全氟己基磺酸(PFHxS)及其盐 Perfluorohexanesulfonic acid (PFHxS) and its salts</b>			
1	PFHxS 及其盐 PFHxS and its salts	全氟己基磺酸 Perfluorohexanesulfonic acid (PFHxS)	355-46-4
2		全氟己基磺酸钠 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-, sodium salt (PFHxS-Na)	82382-12-5
3		全氟己基磺酸钾 Potassium perfluorohexane-1-sulphonate (PFHxS-K)	3871-99-6
4		全氟己基磺酸锂 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt(1:1) (PFHxS-Li)	55120-77-9
5		全氟己基磺酸锌 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0
6		全氟己基磺酸镓盐(9CI) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI) (PFHxS-Ga)	341035-71-0
7		全氟己基磺酸钪盐(3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
8		全氟己基磺酸钕盐(3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
9		全氟己基磺酸钇盐(3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0
10		全氟己基磺酸铯 Cesium Perfluorohexanesulfonate (PFHxS-Cs)	92011-17-1
11		全氟己基磺酸铵 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1) (PFHxS-NH <sub>4</sub> )	68259-08-5
12		全氟己基磺酰氟 1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (PFHxSF)	423-50-7

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13	全氟己基磺酰氯 1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluorohexane-1-sulphonyl chloride (PFHxS-Cl)	55591-23-6
14	全氟己烷磺酸盐 Perfluorohexylsulfonate (PFHxS (anion))	108427-53-8
15	(二-4,1-苯撑硫)双二苯基硫与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:2)的盐 Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2) (PFHxS-S <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> )	421555-73-9
16	二[4-(1,1-二甲基丙基)苯基]碘与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐 Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic (PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>11</sub> ) <sub>2</sub> )	421555-74-0
17	三[4-(1,1-二甲基乙基)苯基]硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯 Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>6</sub> H <sub>4</sub> ) <sub>3</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> )	425670-70-8
18	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸锌与 N,N-二乙基乙胺(1:1) 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	72033-41-1
19	二[(1,1-二甲基乙基)苯基]碘与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐 (1:1) (9CI) Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) (PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	866621-50-3
20	(4-甲基苯基)二苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Sulfonium, (4-methylphenyl)diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub> )	910606-39-2
21	[4-[(2-甲基-1-氧代-2-丙烯-1-基)氧基]苯基]二苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>10</sub> H <sub>9</sub> O <sub>2</sub> )	911027-68-4
22	[4-[(2-甲基-1-氧代-2-丙烯基)氧基]苯基]二苯基硫与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐与 2-乙基三环[3.3.1.1 <sup>3,7</sup> ]癸-2-甲基-2-丙烯酸酯、3-羟基三环[3.3.1.1 <sup>3,7</sup> ]癸-2-甲基-2-丙烯酸酯和四氢呋喃-2-甲基-2-丙烯酸酯的聚合物 Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2-propenoate,3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5
23	二苯并[k,n][1,4,7,10,13]四氧硫酰氯代十六烷基铵,19-[4-(1,1-二甲基乙基)苯基]-6,7,9,10,12,13-六氢-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub> )	928049-42-7
24	三苯基(苯甲基)磷-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Phosphonium, triphenyl(phenylmethyl)-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-P(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> C <sub>7</sub> H <sub>7</sub> )	1000597-52-3
25	N,N,N-三丁基-1-丁胺与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐 1-Butanaminium, N,N,N-tributyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (PFHxS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	108427-54-9
26	N,N,N-三乙基乙胺与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:1)的盐 Ethanaminium,N,N,N-triethyl-,salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	108427-55-0

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27	吡咯烷与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:1)的盐 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with pyrrolidine (1:1) (PFHxS-NC <sub>4</sub> H <sub>9</sub> )	1187817-57-7
28	三苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> )	144116-10-9
29	1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基乙烯基)苯基]-1,2,3,3a,4,8b-六氢旋流器戊烷[b]吡啶-7-基]乙烯基]喹啉-十三氟-1-己基磺酸酯(1:1) Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-C <sub>44</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub> )	1462414-59-0
30	二苯基碘-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )	153443-35-7
31	N,N,N-三甲基甲胺与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:1)的盐 Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-N(CH <sub>3</sub> ) <sub>4</sub> )	189274-31-5
32	2-甲基-2-丙胺与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:1)的盐 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2-methyl-2-propanamine (1:1) (PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )	202189-84-2
33	二[4-(1,1-二甲基乙基)苯基]碘-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	213740-81-9
34	二(4-甲基苯基)苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )	341548-85-4
35	N-[4-[[4-(二乙氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-乙基乙胺-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> )	1310480-24-0
36	N-[4-[[4-(二甲氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基甲胺-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>13</sub> H <sub>12</sub> )	1310480-27-3
37	N-[4-[[4-(二甲氨基)苯基][4-(苯氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基甲胺-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>17</sub> H <sub>12</sub> )	1310480-28-4
38	β-环糊精与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸根(1-)(1:1)形成的化合物 Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )	1329995-45-0
39	γ-环糊精与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸根(1-)(1:1)形成的化合物 Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-C <sub>48</sub> H <sub>80</sub> O <sub>40</sub> )	1329995-69-8

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40		2,2'-亚氨基二乙醇与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:1)形成的化合物 Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFHxS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> )	70225-16-0
41		全氟己基磺酸四丁基磷 Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	2310194-12-6
<b>全氟己基磺酸(PFHxS)相关物质 Perfluorohexanesulfonic acid (PFHxS) related substances</b>			
42	--	全氟己基磺酰胺 1-Hexane-sulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (FHxSA)	41997-13-1
43	--	N-甲基全氟己烷磺酰胺 N-methylperfluorohexanesulfonamide (MeFHxSA)	68259-15-4
44	N-AP-FHxSA 及其盐 N-AP-FHxSA and its salts	N-[3-(二甲基氨基)丙基]十三氟己磺酰胺 N-(3-(Dimethylamino)propyl) perfluorohexane sulfonamide (N-AP-FHxSA)	50598-28-2
45		N-[3-(二甲基氨基)丙基]十三氟己磺酰胺盐酸盐 N-(3-(Dimethylamino)propyl)perfluorohexanesulfonamide hydrochloride (N-AP-FHxSA-HCl)	68957-61-9
46		N-[4-(二甲基氨基)丙基]十三氟己磺酰胺醋酸酯 N-[3-(Dimethylamino)propyl]-perfluoro-1-hexanesulfonamide acetate (N-AP-FHxSA-Ace)	73772-33-5
47	--	丙烯酸(N-甲基全氟己基磺酰胺基)乙酯 (N-Methylperfluorohexanesulfonamido)ethyl acrylate (N-MeFHxSA-EA)	67584-57-0
48	EtFHxSAA 及其盐 EtFHxSAA and its salts	N-乙基-N-[(十三氟己基)磺酰基]甘氨酸 N-Ethyl-N-((tridecafluorohexyl)sulfonyl)glycine (EtFHxSAA)	68957-32-4
49		N-乙基-N-[(十三氟己基)磺酰基]甘氨酸钾盐 Potassium N-ethyl-N-(perfluorohexylsulphonyl)glycinate (EtFHxSAA-K)	67584-53-6
50		N-乙基-N-[(十三氟己基)磺酰基]甘氨酸钠盐 Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4
51	--	N-乙基-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-N-(2-羟乙基)-1-己磺酰胺 N-ethyltridecafluoro-N-(2-hydroxyethyl)hexanesulphonamide (Et-FHxSE)	34455-03-3
52	--	2-[甲基[(十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯 2-(Methyl((tridecafluorohexyl)sulphonyl)amino)ethyl methacrylate (N-MeFHxSA-EE)	67584-61-6
53	--	2-[乙基[(十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯 2-(Ethyl((tridecafluorohexyl)sulphonyl)amino)ethyl methacrylate (N-EtFHxSA-EE)	67906-70-1
54	--	十三氟-N-(2-羟基乙基)-N-甲基己烷磺酰胺 Tridecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hexanesulfonamide (MeFHxSE)	68555-75-9

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▼ **甲氧滴滴涕 Methoxychlor**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
甲氧滴滴涕 Methoxychlor	N.D.	0.01	0.01

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	N.D.	1	100

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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**▼ 得克隆(包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; 测试仪器: GC-MS(NCI)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS(NCI)

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	001		
得克隆(包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	N.D.	1	1000

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

**样品/部位描述 Sample/Part Description**

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	001	混测, 5 种非金属 Mixed test, 5 kinds of nonmetal

备注 Remark:

- 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。  
As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

注释 Note:

- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。  
“\*1”表示该方法不在 CNAS 认可范围内。

**The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

**“\*1” indicates the method(s) is (are) not in CNAS accreditation scope.**

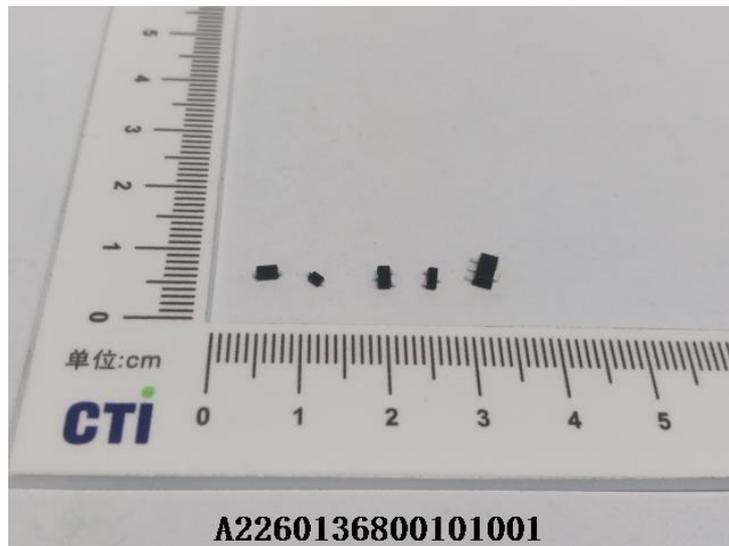
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## 样品图片

### Photo(s) of the sample(s)



#### 声明 Statement:

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