



检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 1 页 共 28 页
Page 1 of 28

报告抬头公司名称 江苏晟驰微电子有限公司
Company Name JIANGSU SEMICON CHAMPION MICROELECTRONICS CO.,LTD
shown on Report
地 址 江苏省海安市经济开发区康华路 55 号
Address NO. 55 KANGHUA ROAD,HAI'AN ECONOMIC DEVELOPMENT AREA,
JIANGSU PROVINCE

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	二极管成品
Sample Name	Finished diode
样品型号	TPSMA/SMA/TPSMB/SMB/TPSMC/SMC/TPSMD/SMD/SM8S/TPSMF/SOD-123/ SOD-123FL/SOD-323/SMAF/SMBF/DO-15/DO-41/DO-27/R6/SMTO-218
Model No.	TPSMA/SMA/TPSMB/SMB/TPSMC/SMC/TPSMD/SMD/SM8S/TPSMF/SOD-123/ SOD-123FL/SOD-323/SMAF/SMBF/DO-15/DO-41/DO-27/R6/SMTO-218
样品接收日期	2025.09.04
Sample Received Date	Sep. 4, 2025
样品检测日期	2025.09.04-2025.09.10
Testing Period	Sep. 4, 2025 to Sep. 10, 2025

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

上海华测品标检测技术有限公司

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

日 期

Date

2025.09.10

No. R794241603

上海市闵行区万芳路 1351 号

No.1351, Wanfang Road, Minhang District, Shanghai, China

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 2 页 共 28 页
Page 2 of 28

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)	符合 PASS
- 全氟辛烷磺酸(PFOS)及其盐和相关物质 Perfluorooctane sulfonic acid (PFOS) and its salts & related substances	符合 PASS
- 六溴环十二烷 Hexabromocyclododecane (HBCDD)	符合 PASS
- 短链氯化石蜡 Short Chain Chlorinated Paraffins (SCCPs)	符合 PASS
- 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)	符合 PASS
- 氯丹 Chlordane	符合 PASS
- 六氯环己烷, 包括林丹 Hexachlorocyclohexanes, including Lindane	符合 PASS
- 狄氏剂 Dieldrin	符合 PASS
- 异狄氏剂 Endrin	符合 PASS
- 七氯 Heptachlor	符合 PASS
- 硫丹 Endosulfan	符合 PASS
- 十氯酮 Chlordecone	符合 PASS
- 艾氏剂 Aldrin	符合 PASS
- 灭蚁灵 Mirex	符合 PASS

测试结果

CONCLUSION

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 3 页 共 28 页
Page 3 of 28

- 毒杀芬 Toxaphene	符合 PASS
- 五氯苯 Pentachlorobenzene	符合 PASS
- 六氯苯 Hexachlorobenzene	符合 PASS
- 六溴联苯 Hexabromobiphenyl	符合 PASS
- 多氯联苯 Polychlorinated Biphenyls(PCBs)	符合 PASS
- 多氯化萘 Polychlorinated Naphthalenes (PCNs)	符合 PASS
- 六氯丁二烯 Hexachlorobutadiene (HCBd)	符合 PASS
- 五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters	符合 PASS
- 全氟辛酸(PFOA)及其盐和相关物质 Perfluorooctanoic acid (PFOA) and its salts & related substances	符合 PASS
- 三氯杀螨醇 Dicofol	符合 PASS
- 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	符合 PASS
- 甲氧滴滴涕 Methoxychlor	符合 PASS
- 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)	符合 PASS

*****详细结果, 请见下页*****

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

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 4 页 共 28 页
Page 4 of 28

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.	--	500

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

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 5 页 共 28 页
Page 5 of 28

▼ 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: EN 17681-1:2025*1; 测试仪器: LC-MS-MS&GC-MS-MS

Test Method: EN 17681-1:2025*1; 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	--
全氟辛烷磺酸(PFOS)及其盐 Perfluorooctane sulfonic acid (PFOS) and its salts	-	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	--
双(2-全氟辛基磺酰基-N-氨乙基)磷酸 Bis[2-[N-ethyl(heptadecafluorooctanesulphonyl)amino]ethyl] hydrogen phosphate (EtFOSEdiPAPs)	2965-52-8	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	--
全氟辛烷磺酸(PFOS)相关物质 Perfluorooctane sulfonic acid (PFOS) related substances	-	N.D.	--	1

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 6 页 共 28 页
Page 6 of 28

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
- 根据欧盟持久性有机污染物(POPs)法规(EU) 2019/1021, 全氟辛烷磺酸(PFOS)及其盐和相关物质被定义为一类化学物质, 但法规中并未给出物质清单。结论是根据所测试的项目含量得出的。
According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctane sulfonic acid (PFOS) and its salts & related substances are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

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.
全氟辛烷磺酸(PFOS)及其盐 Perfluorooctane sulfonic acid (PFOS) and its salts			
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 ₄)	29081-56-9
7		全氟辛基磺酸二乙醇铵 Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
8		全氟辛基磺酸四乙基铵 Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
9		全氟辛烷磺酸四丁基铵 Tetrabutylammonium perfluorooctanesulfonate (PFOS-NH(C ₄ H ₉) ₄)	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 ₄ H ₁₂ N)	56773-44-5
13		全氟辛基磺酸二乙胺 Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7
14		全氟辛基磺酸三乙胺 Triethylammonium perfluorooctane sulfonate (PFOS-C ₆ H ₁₅ N)	54439-46-2
15		全氟辛基磺酸三丁基甲基铵 N,N-Dibutyl-N-methylbutan-1-aminium heptafluoro-octane-1-sulfonate (PFOS-C ₁₃ H ₃₀ N)	124472-68-0
16		全氟辛基磺酸戊基(三丙基)氮铵 N,N,N-Tripropylpentan-1-aminium heptafluoro-octane-1-sulfonate (PFOS-C ₁₄ H ₃₂ N)	56773-56-9

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 7 页 共 28 页
Page 7 of 28

17		全氟辛基磺酸四丁基磷 Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-C ₁₆ H ₃₆ 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 heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	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 ₂₀ H ₂₆ I)	213740-80-8
20		全氟辛基磺酸二苯基(2,4,6-三甲苯基)硫 Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate (PFOS-C ₂₁ H ₂₁ S)	258341-99-0
21		全氟辛基磺酸十六烷基吡啶 1-Hexadecylpyridinium perfluoro-1-octanesulfonate (PFOS-C ₂₁ H ₃₈ N)	334529-63-4
22		全氟辛基磺酸酐 Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
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 ₁₆ H ₃₆ 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
全氟辛烷磺酸(PFOS)相关物质 Perfluorooctane sulfonic acid (PFOS) related substances			
26	--	全氟辛基磺酰氟 Perfluoro-1-octanesulfonyl fluoride (PFOSF)	307-35-7
27	--	氟虫胺 N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2
28	--	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
29	--	N-乙基全氟辛基磺酰胺乙醇 2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2
30	--	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
31	PFOSA 及其盐 PFOSA and its salts	全氟辛基磺酰胺 Perfluorooctanesulfonamide (PFOSA)	754-91-6
32		全氟辛基磺酰胺锂盐(1:1) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
33		全氟辛基磺酰胺钠盐(1:1) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
34		全氟辛基磺酰胺钾盐(1:1) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
35		全氟辛基磺酰胺铵盐(1:1) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2
36		全氟辛基磺酰胺三乙胺 Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4
37	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
38		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
39		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
40	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
41		N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 8 页 共 28 页
Page 8 of 28

42		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
43		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 ₄)	2991-52-8
44		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
45	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
46		全氟辛烷磺酰氨基乙酸钾 N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
47		全氟辛烷磺酰氨基乙酸钠 N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
48		全氟辛烷磺酰氨基乙酸盐 N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA (anion))	909405-47-6
49	--	双(2-全氟辛基磺酰基-N-氨乙基)磷酸 Bis[2-[N-ethyl(heptadecafluorooctanesulphonyl)amino]ethyl]hydrogen phosphate (EtFOSEdiPAPs)	2965-52-8
50	--	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*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)	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 (α -HBCDD, β -HBCDD, γ -HBCDD)
- ‘Hexabromocyclododecane (HBCDD)’ means: Hexabromocyclododecane (HBCDD), 1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers: α -HBCDD, β -HBCDD, γ -HBCDD

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 9 页 共 28 页
Page 9 of 28

▼ **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*¹; 测试仪器: GC-MS(NCI)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018*¹; 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		
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*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		
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

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 10 页 共 28 页
Page 10 of 28

▼ **氯丹 Chlordane**

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		
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*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		
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*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		
狄氏剂 Dieldrin	N.D.	5	N.D.

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 11 页 共 28 页
Page 11 of 28

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

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 12 页 共 28 页
Page 12 of 28

▼ 硫丹 Endosulfan

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		
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*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		
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*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		
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

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 13 页 共 28 页
Page 13 of 28

▼ 灭蚁灵 Mirex

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)
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*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)
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

▼ 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	限值 Limit
	001	MDL (mg/kg)	(mg/kg)
五氯苯 Pentachlorobenzene	N.D.	5	N.D.

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 14 页 共 28 页
Page 14 of 28

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*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		
六氯苯 Hexachlorobenzene	N.D.	5	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

▼ 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

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 15 页 共 28 页
Page 15 of 28

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

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		
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*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		
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*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		
六氯丁二烯 Hexachlorobutadiene	N.D.	20	N.D.

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 16 页 共 28 页
Page 16 of 28

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*¹; 测试仪器: GC-MS

Test Method: Refer to ISO 17070:2015*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: EN 17681-1:2025*¹; 测试仪器: LC-MS-MS&GC-MS-MS

Test Method: EN 17681-1:2025*¹; 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

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 17 页 共 28 页
Page 17 of 28

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		
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 ₂ 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 ₂ PFDA-P(C ₄ H ₉) ₄)	882489-14-7	N.D.	0.010	1
H ₄ PFUnA 及其盐 H ₄ 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 ₂)	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

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 18 页 共 28 页
Page 18 of 28

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
- 根据欧盟持久性有机污染物(POPs)法规(EU) 2019/1021, 全氟辛酸(PFOA)及其盐和相关物质被定义为一类化学物质, 但法规中并未给出物质清单。结论是根据所测试的项目含量得出的。
According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctanoic acid (PFOA) and its salts & related substances are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

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.
全氟辛酸(PFOA)及其盐 Perfluorooctanoic acid (PFOA) and its salts			
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 ₂ H ₅) ₃)	98241-25-9
12		全氟辛酸四丙基铵 Tetrapropylammonium perfluorooctanoate (PFOA-NH(C ₃ H ₇) ₄)	277749-00-5
13		全氟辛酸 N,N,N-三甲基甲烷 Perfluorooctanoate N,N,N-Trimethylmethanaminium (PFOA-NH(C ₄ H ₁₁) ₃)	32609-65-7
14		全氟辛酸-哌嗪 Pentadecafluorooctanoic acid-piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
15		全氟辛酸钾水合物 Potassium pentadecafluorooctanoate-water (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7
16		全氟辛酸乙胺 Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 19 页 共 28 页
Page 19 of 28

17		全氟辛酸吡啶 Pentadecafluorooctanoic acid-pyridine (1/1) (PFOA-C ₅ H ₅ N)	95658-47-2
18		全氟辛酸苯基哌嗪 Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
19		全氟辛酸辛基三甲基铵 N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6
20		全氟辛酸酐 Perfluorooctanoic Anhydride (PFOAA)	33496-48-9
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
全氟辛酸(PFOA)相关物质 Perfluorooctanoic acid (PFOA) related substances			
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 ₄)	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 ₄)	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 ₄ H ₁₁ NO ₂)	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 ₂ PFDA)	27854-31-5
43	--	四丁基磷 2H,2H-全氟癸酸酯 Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H ₂ PFDA-P(C ₄ H ₉) ₄)	882489-14-7
44	H ₄ PFUnA 及其盐	2H,2H,3H,3H-全氟十一酸 2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnA)	34598-33-9

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 20 页 共 28 页
Page 20 of 28

45	H ₄ PFUnA and its salts	3-(全氟辛基)丙酸钾 Potassium 3-(perfluorooctyl)propanoate (H ₄ PFUnA-K)	83310-58-1
46		2H,2H,3H,3H-全氟十一酸锂 Lithium 3-(perfluorooctyl)propanoate (H ₄ 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
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 ₄ H ₁₁ O ₂)	57677-98-2
52		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 monoPAPS 及其盐	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 monoPAPS and its salts	8:2 氟调聚物磷酸单酯二钠盐 Disodium 1H,1H,2H,2H-perfluorodecylphosphate (8:2 monoPAPS-Na ₂)	438237-75-3
55		8:2 氟调聚物磷酸单酯二铵盐 8:2 Fluorotelomer diammonium phosphate (8:2 monoPAPS-NH ₄ NH ₄)	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 全氟次磷酸 Bis(heptadecafluorooctyl)phosphinic acid (8:8 PFPi)	40143-79-1
60		8:8 全氟次磷酸钠盐 Sodium bis(perfluorooctyl)phosphinate (8:8 PFPi-Na)	500776-69-2
61		8:8 全氟次磷酸铒盐 Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5
62		8:8 全氟次磷酸镱盐 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-甲基苯胺(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (PFOPA-C ₈ H ₉ 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	--	3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-十五氟-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 ₂)	307-29-9
68	6:8 PFPi 及其盐 6:8 PFPi and its salts	6:8 全氟次磷酸 Perfluorohexylperfluorooctyl phosphinic acid (6:8 PFPi)	610800-34-5
69		6:8 全氟次磷酸钠 Sodium perfluorohexylperfluorooctylphosphinate (6:8 PFPi-Na)	2361298-14-6

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 21 页 共 28 页
Page 21 of 28

▼ **三氯杀螨醇 Dicofol**

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		
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: EN 17681-1:2025*¹; 测试仪器: LC-MS-MS&GC-MS-MS

Test Method: EN 17681-1:2025*¹; 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-[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	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-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-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	--

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 22 页 共 28 页
Page 22 of 28

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-[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	N.D.	0.100	--
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
- 根据欧盟持久性有机污染物(POPs)法规(EU) 2019/1021, 全氟己基磺酸(PFHxS)及其盐和相关物质被定义为一类化学物质, 但法规中并未给出物质清单。结论是根据所测试的项目含量得出的。
According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

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.
全氟己基磺酸(PFHxS)及其盐 Perfluorohexanesulfonic acid (PFHxS) and its salts			
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

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 23 页 共 28 页
Page 23 of 28

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 ₄)	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
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 ₃ (C ₆ H ₅) ₄ (C ₆ H ₁₁) ₂)	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 ₆ H ₄) ₂ (C ₅ H ₁₁) ₂)	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 ₆ H ₄) ₃ (C ₄ H ₉) ₃)	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 ₂ H ₅) ₃)	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 ₆ H ₄) ₂ (C ₄ H ₉) ₂)	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 ₆ H ₅) ₂ C ₇ H ₇)	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 ₆ H ₅) ₂ C ₁₀ H ₉ O ₂)	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 ^{3,7}]癸-2-甲基-2-丙烯酸酯、3-羟基三环[3.3.1.1 ^{3,7}]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 ^{3,7}]dec-2-yl 2-methyl-2-propenoate,3-hydroxytricyclo[3.3.1.1 ^{3,7}]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 ₂₈ H ₃₁ O ₄)	928049-42-7

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 24 页 共 28 页
Page 24 of 28

24	三苯基(苯甲基)膦-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 ₆ H ₅) ₃ C ₇ H ₇)	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 ₄ H ₉) ₄)	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 ₂ H ₅) ₄)	108427-55-0
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 ₄ H ₉)	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 ₆ H ₅) ₃)	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 ₄₄ H ₃₇ N ₂ O ₂)	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 ₆ H ₅) ₂)	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 ₃) ₄)	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 ₂ (CH ₃) ₃)	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 ₆ H ₄) ₂ (C ₄ H ₉) ₂)	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 ₇ H ₇) ₂ C ₆ H ₅)	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 ₁₀ H ₁₄) ₃ C ₅ H ₄)	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 ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	1310480-27-3

检测报告

Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 25 页 共 28 页
Page 25 of 28

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-甲基甲铵-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 ₈ H ₁₀) ₂ C ₁₇ H ₁₂)	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 ₄₂ H ₇₀ O ₃₅)	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 ₄₈ H ₈₀ O ₄₀)	1329995-69-8
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 ₂ H ₅ O) ₂)	70225-16-0
41		全氟己基磺酸四丁基磷 Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P(C ₄ H ₉) ₄)	2310194-12-6
全氟己基磺酸(PFHxS)相关物质 Perfluorohexanesulfonic acid (PFHxS) related substances			
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-[3-(二甲氨基)丙基]十三氟己磺酰胺 N-(3-(Dimethylamino)propyl) perfluorohexane sulfonamide (N-AP-FHxSA)	50598-28-2
45	--	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
46	EtFHxSAA	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
47	及其盐	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
48	and its salts	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
49	--	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
50	--	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
51	--	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
52	--	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

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 26 页 共 28 页
Page 26 of 28

▼ **甲氧滴滴涕 Methoxychlor**

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		
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*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		
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

检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 27 页 共 28 页
Page 27 of 28

样品/部位描述 Sample/Part Description

序号	CTI 样品 ID	描述
No.	CTI Sample ID	Description
1	001	电子元器件（整体测试） Electronic components(Tested as a whole)

备注 Remark:

- 按照目前手段，样品无法进一步拆分，样品整体测试，测试结果不代表整体测试样品中任何一种单一材质的含量。

The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

- 根据客户声明，本报告“样品信息”中的多信息原因可能包含(但不限于):供给不同客户、销往不同的国家或地区、曾用名或多种物质的混合物等情况。

According to the client's statement, the reasons for the multiple information in the "sample information" of this report may include (but are not limited to): supplying to different buyers, being sold to different countries or regions, former names, or mixtures of several substances.

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.

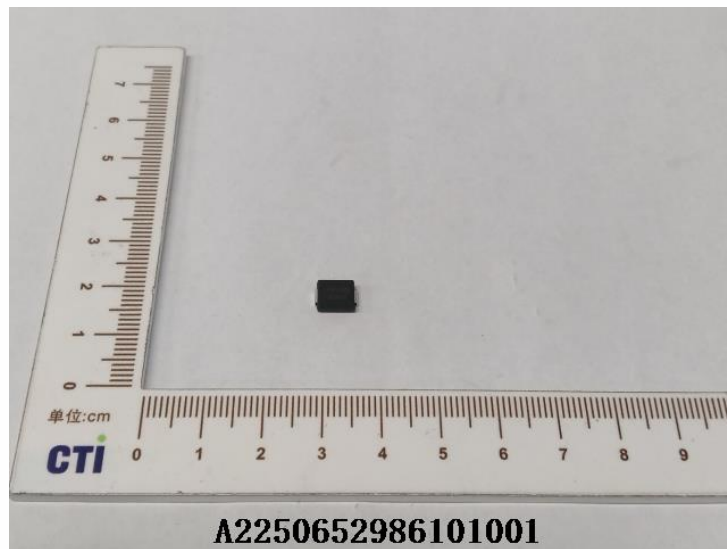
检测报告 Test Report

报告编号 A2250652986101001E
Report No. A2250652986101001E

第 28 页 共 28 页
Page 28 of 28

样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经 CTI 书面同意, 不得部分复制本报告;
Without written approval of CTI, this report can't be reproduced except in full;
6. 如检测报告中的英文内容与中文内容有差异, 以中文为准。
In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***