






The right columns and consumables to maximize your environmental workflow

Our diverse portfolio of columns and consumables offers complete workflow solutions to support your environmental application needs.

Find our suggested products on thermofisher.com, organized by application area, and get the most out of your analysis.

General environmental workflow resources

-  Environmental Resource Library
-  Contaminant Analysis Information Library
-  Analytical Technology Solutions for U.S. Environmental Protection Agency (EPA) methods

GC columns by application		
Application	Cat. Number	Product Description
Volatile Organic Compounds (VOC)	26080-4950	Thermo Scientific™ TraceGOLD™ TG-VMS GC (20 m x 0.18 mm ID x 1 µm) for GC-MS Reference: EPA methods 502, 524, 8260, 624, TO-15, TO-17
	26098-2230	Thermo Scientific™ TraceGOLD™ TG-5MS GC column (30 m x 0.25 mm ID x 0.5 µm) for GC-MS Reference: EPA method 8270E
Semi Volatile Organic Compounds (SVOC)	26098-1425	TraceGOLD TG-5MS GC column (30 m x 0.25 mm ID x 0.25 µm) with 5m GUARD Reference: AN10522
	26096-1420	Thermo Scientific™ TraceGOLD™ TG-5SILMS GC column (30 m x 0.25 mm ID x 0.25 µm), very low bleed and ideal for GC-MS/MS
Polycyclic Aromatic Hydrocarbons (PAH)	26055-0470	Thermo Scientific™ TraceGOLD™ TG-PAH GC column, (30 m x 0.25 mm ID x 0.1 µm)
Polybrominated Diphenyl Ethers (PBDE)	26061-0350	Thermo Scientific™ TraceGOLD™ TG-PBDE GC Column, (15 m x 0.25 mm ID x 0.1 µm) Reference: AN10644 and AN10674
Dioxin and Furan	26066-1540	Thermo Scientific™ TraceGOLD™ TG-Dioxin GC column, (60 m x 0.25 mm ID x 0.25 µm), Thermo Scientific™ Dioxin Analyzer Reference: AN10703
Polychlorinated Biphenyl (PCB)	26AJ148P	Thermo Scientific™ TRACE™ TR-PCB 8MS GC column (50 m x 0.25 mm ID x 0.25 µm) for GC-MS
	260F296P	Thermo Scientific™ TRACE™ TR-5MS GC column (30 m x 0.25 mm ID x 0.25 µm) for GC method
	26089-1420	Thermo Scientific™ TraceGOLD™ TG-17MS GC columns, (30 m x 0.25 mm ID x 0.25 µm) Reference: CAN 121

GC columns by application		
Application	Cat. Number	Product Description
Pesticides	26RD142F	Thermo Scientific™ TraceGOLD™ Pesticide II (30 m x 0.25 mm ID x 0.25 µm) with 5 m Guard, GC-MS method
	26078-5760 & 26077-1430	Thermo Scientific™ TraceGOLD™ TG-OCP I, (30 m x 0.32 mm x 0.32 µm) & TraceGOLD TG-OCP II (30 m x 0.32 mm ID x 0.25 µm) for GC-ECD dual-column organochlorine pesticide Reference: EPA methods 8081, 608
	26076-2240 & 26075-5760	Thermo Scientific™ TraceGOLD™ TG-OPP I, (30 m x 0.32 mm ID x 0.50 µm) & TraceGOLD TG-OPP II, (30 m x 0.32 mm ID x 0.32 µm) for GC-FPD or NPD dual-column organophosphorus pesticides Reference: EPA method 8141
Haloacetic Acids	26090-1420	Thermo Scientific™ TraceGOLD™ TG-1701MS GC columns (30 m x 0.25 mm ID x 0.25 µm) for GC as primary column Reference: EPA method 552
	260F142P	Thermo Scientific™ TRACE™ TR-5MS GC column (30 m x 0.25 mm ID x 0.25 µm) for GC as confirmation column Reference: EPA method 552

 See our full portfolio of GC columns

Suggested sample vials by application

Volatile Organic Compound (VOC) applications	
Cat. Number	Product Description
B7950	EPA screw vial assembled kit, 40 mL, 100/PK for purge and trap
20-HSV	18 mL screw top headspace vials, clear 125/PK for headspace or SPME ARROW
18-MSC-ST3HT	18 mm magnetic screw cap, 8 mm hole, silicone/PTFE septa, 125/PK for headspace or SPME ARROW
C4000-S2W	9 mm wide opening silanized amber screw thread vials, ID patch, 2mL, 100/PK
C5000-54B	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK
SVOC/PAH/PBDE/PCB/Pesticides applications	
C4000-S2W	9 mm wide opening silanized amber screw thread vials, ID patch, 2 mL, 100/PK
C5000-54B	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK
Dioxin analysis	
07-CPVA	8 mm amber glass crimp top tapered vials, 0.7 mL, 100/PK
8-AC-ST101	8 mm aluminum crimp cap, blue silicone/PTFE liner, 500/PK

Suggested consumables for specific environmental applications

EPA 537 Determination of selected perfluorinated alkyl acids in drinking water by Solid Phase Extraction (SPE)

Cat. Number	Product Description
17626-102130	Analytical column: Thermo Scientific™ Accucore™ RP, 2.6 µm, 2.1 x 100 mm
28105-052130	Isolator column: Thermo Scientific™ Hypersil™ BDS C18, 5 µm, 2.1 x 50 mm
80100-62142	Thermo Scientific™ Vanquish™ Flex Binary UHPLC system fitted with Thermo Scientific™ PFC free kit

 [Learn more about EPA 537](#)

Microcystins in water direct injection method (EPA 545)

Cat. Number	Product Description
25302-102130	Thermo Scientific™ Hypersil GOLD™ aQ, 1.9 µm, 2.1 x 100 mm
C4000-S2W	9 mm wide opening silanized amber screw thread vials, ID patch, 2 mL, 100/PK
C5000-54B	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK

Determination of microcystins in water with online concentration (EPA 544)

Cat. Number	Product Description
25012-022130	Concentration column: Hypersil GOLD, 12 µm, 2.1 x 20 mm
17326-052130	Analytical column: Thermo Scientific™ Accucore™ aQ, 2.6 µm, 2.1 x 50 mm
17126-102130	Analytical column: Thermo Scientific™ Accucore™ C18, 2.6 µm, 2.1 x 100 mm
60107-211	Thermo Scientific™ HyperSep™ Retain PEP cartridges, 150 mg bed weight, 6 mL column capacity, 30/PK
C4000-S2W	9 mm wide opening silanized amber screw thread vials, ID patch, 2 mL, 100/PK
C5000-54B	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK
S7515-3	3 mL polypropylene lure-lok syringe
42213-PV	Thermo Scientific™ Titan3™ 0.2 µm PVDF filter, 17 mm, 200/PK

 [Learn about our Thermo Scientific™ EQuan MAX Plus™ system for water testing](#)

Suggested consumables for GC instrumentation

Consumables for autosamplers						
Product Type	Cat. Number	Product Description	VOC	SVOC	Thermo Scientific™ AI/AS 1310 Series Autosampler	Thermo Scientific™ TriPlus RSH™ Autosampler
Syringes	36520060	10 µL fixed needle syringe, 23 gauge, cone for general liquid injection	X	X	X	
	365D0271	10 µL fixed needle syringe, 23S gauge, cone, for general liquid injection	X	X		X
	365L2321	2.5 mL headspace syringe, 23 gauge, up to 150 degrees	X			X
Solid Phase Microextraction (SPME)	36SA10M5	Development kit including five phases of SPME ARROWS	X	X		X

Consumables for Thermo Scientific™ TRACE™ GC 1300 Series-ISQ/TSQ quadrupole systems								
Product Type	Cat. Number	Product Description	VOC	SVOC	SSL	PTV	MS	
Septa	31303233-BP	BTO Septa, 50/PK, blister pack	X	X	X	X		
Liners	453A0415	Direct straight liner, 1.7 mm ID, 3/PK, for SPME ARROW	X	X	X			
	453A1335	Direct straight liner, 1.2 mm ID, 5/PK, for headspace and purge & trap	X		X			
	453A1925-UI	LinerGOLD™ splitless liner, wool, 4 mm ID, 5/PK	X	X	X			
	453A1255-UI	LinerGOLD SSL precision liner, wool, 4 mm ID, 5/PK		X	X			
	453T2845-UI	LinerGOLD PTV concentric baffle, 5/PK	X	X			X	
Liner Sealing Ring	29001320	Viton liner sealing ring for SSL, 5/PK	X	X	X			
	29001318	Liner sealing ring for PTV, 1/PK	X	X			X	
Inlet Seal	290GA082	Gold plated inlet seals, 2/PK	X	X	X			
	29013820	Silver seal (gasket), 2/PK	X	X			X	
Ferrules	290VA191	Graphite/vespel ferrule, 10/PK, for 0.1-0.25 mm ID GC columns	X	X	X			X
	290VA192	Graphite/vespel ferrule, 10/PK, for 0.32 mm ID GC columns	X	X	X			X
	29053488	Graphite ferrule, use with 0.25 mm ID GC columns for PTV	X	X			X	
	29053487	Graphite ferrule, use with 0.32 mm ID GC columns for PTV	X	X			X	
Column Nut	35050458	Column nut for SSL/GSV/FID/TCD/ECD/FPD/NPD, 5/PK	X	X	X			
	35053221	Terminal bottom fitting (Column Nut) for PTV, 5/PK	X	X			X	
	1R120434-0010	Spring loaded MS transfer line nut for ISQ and TSQ GC systems	X	X				X
	1R120434-0020	Spring loaded MS transfer line nut for Exactive GC and Q Exactive GC Orbitrap systems	X	X				X

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