

TraceGOLD GC columns

TraceGOLD TG-1MS GC columns

Exceptionally low bleed for optimal signal-to-noise ratio, sensitivity and MS integrity

- Non-polar
- Equivalent to USP G2

Phase:	100% dimethyl polysiloxane
Max. Temps.:	330°C/350°C for Standard Columns 430°C for Metal Columns
USP Listing:	G2

TraceGOLD TG-1MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.10	10	0.1	26099-0200	1 Each
0.20	12	0.33	26099-5820	1 Each
0.15	20	0.15	26099-2760	1 Each
	40	0.15	26099-2940	1 Each
0.18	20	0.18	26099-5780	1 Each
0.25	15	0.25	26099-1300	1 Each
		0.5	26099-2110	1 Each
		1.0	26099-2840	1 Each
	30	0.25	26099-1420	1 Each
		0.5	26099-2230	1 Each
		1.0	26099-2960	1 Each
		30 with 5m SafeGuard	0.25	26099-1425
60	0.25	26099-1540	1 Each	
0.32	15	0.5	26099-2350	1 Each
		1.0	26099-3080	1 Each
		0.25	26099-1310	1 Each
	30	1.0	26099-2850	1 Each
		0.25	26099-1430	1 Each
		0.5	26099-2240	1 Each
		1.0	26099-2970	1 Each
60	3.0	26099-4840	1 Each	
	0.25	26099-1550	1 Each	
	0.5	26099-2360	1 Each	
0.53	15	1.0	26099-3090	1 Each
		0.5	26099-2130	1 Each
		1.0	26099-2860	1 Each
	30	1.5	26099-3340	1 Each
		0.5	26099-2250	1 Each
		1.0	26099-2980	1 Each
		1.5	26099-3360	1 Each
30 with 5m SafeGuard	1.0	26099-2985	1 Each	

Applications:

- Hydrocarbons
- Solvent impurities
- PCB congeners
- Aroclor mixes
- Simulated distillation
- Drugs of abuse
- Natural gas odorants
- Essential oils
- Pesticides

Similar to:

- Rxi-1ms
- DB-1
- DB-1ms
- HP-1
- HP-1ms
- Ultra-1
- SPB-1
- Equity-1
- VF-1ms
- CP-Sil 5 CB Low Bleed/MS

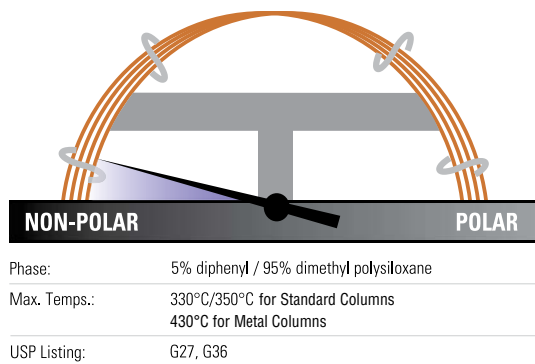
TraceGOLD TG-1MT Metal GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.25	26M99-1300	1 Each
	30	0.25	26M99-1420	1 Each
0.53	5	0.1	26M99-4130	1 Each
		0.88	26M99-4120	1 Each
	6	0.15	26M99-4100	1 Each

TraceGOLD TG-5MS GC columns

The most widely used MS phase in gas chromatography

- Low polarity phase
- Low bleed for excellent signal-to-noise ratio, sensitivity and mass spectral integrity
- Exceptional inertness ideal for analysis of active compounds
- Equivalent to USP G27 phase



TraceGOLD TG-5MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.10	10	0.1	26098-0200	1 Each
0.15	20	0.15	26098-2760	1 Each
	40	0.15	26098-2940	1 Each
0.18	20	0.18	26098-5780	1 Each
	20 with 5m SafeGuard	0.18	26098-5785	1 Each
0.25	15	0.25	26098-1300	1 Each
		15 with 5m SafeGuard	0.25	26098-1305
	30	0.25	26098-1420	1 Each
		0.5	26098-2230	1 Each
		1.0	26098-2960	1 Each
	30 with 5m SafeGuard	0.1	26098-0475	1 Each
		0.25	26098-1425	1 Each
60	0.25	26098-1540	1 Each	
		0.5	26098-2350	1 Each
	1.0	26098-3080	1 Each	
		26098-2850	1 Each	
		26098-3080	1 Each	
0.32	15	1.0	26098-2850	1 Each
		0.25	26098-1430	1 Each
	30	0.5	26098-2240	1 Each
		1.0	26098-2970	1 Each
		0.25	26098-1435	1 Each
60	0.25	26098-1550	1 Each	
		0.5	26098-2360	1 Each
	1.0	26098-3090	1 Each	
		26098-2860	1 Each	
		26098-3090	1 Each	
0.53	0.5	26098-2130	1 Each	
		26098-2860	1 Each	
		26098-3340	1 Each	
	30	0.25	26098-1440	1 Each
		0.5	26098-2250	1 Each
		1.0	26098-2980	1 Each
		1.5	26098-3360	1 Each
60	5.0	26098-4100	1 Each	

Applications:

- Semi-volatiles
- Phenols
- Amines
- Residual solvents and solvent impurities
- Drugs of abuse
- Pesticides
- PCB congeners
- Aroclor mixes

Similar to:

- Rxi-5ms
- DB-5
- HP-5
- HP-5ms
- Ultra-2
- SPB-5
- Equity-5
- CP-Sil 8

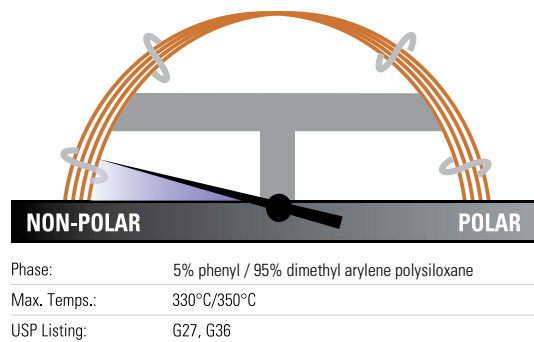
TraceGOLD TG-5MT Metal GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.1	26M98-0350	1 Each
		0.25	26M98-1300	1 Each
	30	0.25	26M98-1420	1 Each
		0.25	26M98-1540	1 Each

TraceGOLD TG-5SiIMS GC columns

Incorporate phenyl groups in the polymer backbone for improved thermal stability, reduced bleed and reduced susceptibility to oxidation

- Low polarity, silarylene phase
- Designed for low bleed and outstanding inertness



TraceGOLD TG-5SiIMS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.15	20	0.15	26096-2760	1 Each
0.18	20	0.18	26096-5780	1 Each
0.25	15	0.25	26096-1300	1 Each
	15 with 10m SafeGuard	0.25	26096-1301	1 Each
	30	0.25	26096-1420	1 Each
		0.5	26096-2230	1 Each
		1.0	26096-2960	1 Each
	30 with 5m SafeGuard	0.25	26096-1425	1 Each
		0.5	26096-2235	1 Each
	30 with 10m SafeGuard	0.25	26096-1421	1 Each
	60	0.25	26096-1540	1 Each
		1.0	26096-3080	1 Each
0.32	30	0.25	26096-1430	1 Each
		0.5	26096-2240	1 Each
		1.0	26096-2970	1 Each
0.53	30	1.5	26096-3360	1 Each

Applications:

- GC-MS applications using ion-trap systems
- Polycyclic aromatics
- Hydrocarbons including chlorinated hydrocarbons
- Phthalates
- Phenols
- Amines
- Organophosphate

Similar to:

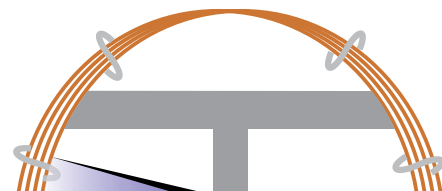
- DB-5ms Ultra Inert
- VF-5ms
- CP-Sil 8 Low-Bleed/MS
- Rxi-5SiIMS
- BPX5
- ZB-5ms
- Optima-5MS
- SLB-5

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-5MS AMINE GC columns

Analysis of ppm levels of amines without column priming

- Low polarity phase, base optimized
- Tubing surface is chemically altered to reduce tailing of active basic compounds
- Also allows analysis of neutral or weakly acidic compounds (e.g. phenols) and compounds susceptible to hydrogen bonding
- Low bleed at maximum operating temperature



Phase:	Modified 5% diphenyl / 95% dimethyl polysiloxane for basic compounds
Max. Temps.:	300°C / 315°C
USP Listing:	N/A

TraceGOLD TG-5MS AMINE GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.25	26097-1300	1 Each
		1.0	26097-2840	1 Each
	30	0.25	26097-1420	1 Each
		0.5	26097-2230	1 Each
		1.0	26097-2960	1 Each
0.32	30	1.0	26097-2970	1 Each
0.53	30	1.0	26097-2980	1 Each
		3.0	26097-3960	1 Each

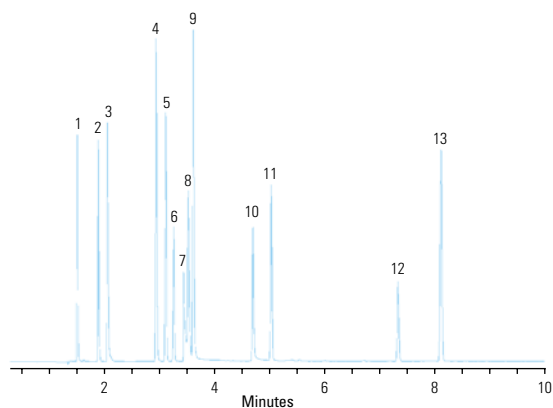
Applications:

- Amines and other basic compounds, including alkylamines, diamines, triamines, ethanolamines
- Nitrogen-containing heterocyclics

Similar to:

- Rtx-5 Amine

Amines and phenols



TG-5MS Amine 30m x 0.32mm x 1.0µm

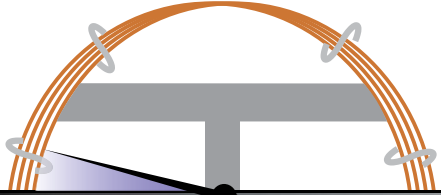
Temperature:	120°C to 220°C at 10°C/minute
Detector Type:	FID
Carrier Gas:	Hydrogen
Flow Rate:	40cm/min
Injection Volume:	1.0µL
Injection Mode:	Split 25:1, 300°C

1. diethylamine	8. octylamine
2. pyridine	9. 1-methyl-2-pyrrolidone
3. morpholine	10. 2-nitrophenol
4. phenol	11. 2,6-dimethylaniline
5. aniline	12. nicotine
6. 2-chlorophenol	13. 2-nitroaniline
7. diethylenetriamine	

TraceGOLD TG-5HT GC columns

Offers extended operation up to 400°C, ideal for high temperature extended GC applications

- Low polarity
- Lower bleed and better inertness than comparable high-temperature columns
- Special design of fused silica tubing extends column lifetime by up to 40%



	NON-POLAR	POLAR
Phase:	5% diphenyl / 95% dimethyl polysiloxane	
Max. Temps.:	380°C/400°C	
USP Listing:	G27, G36	

TraceGOLD TG-5HT GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.1	26095-0350	1 Each
		0.25	26095-1300	1 Each
	30	0.1	26095-0470	1 Each
		0.25	26095-1420	1 Each
0.32	15	0.1	26095-0360	1 Each
	30	0.1	26095-0480	1 Each
		0.25	26095-1430	1 Each
0.53	10	0.15	26095-1640	1 Each
	30	0.15	26095-0620	1 Each

Applications:

- Phenols
- Residual solvents
- Solvents
- Semivolatiles
- Pesticides
- PCBs
- Solvent impurities

Similar to:

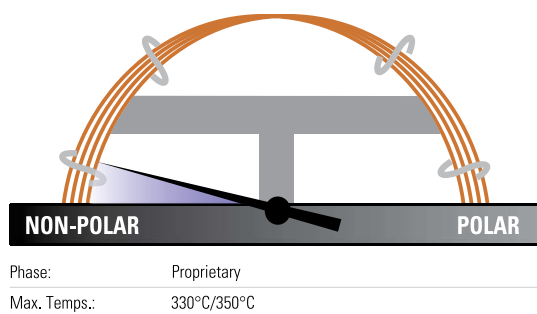
- Rxi-5HT
- BP-5HT
- VF-5HT
- ZB-5HT

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-SQC GC columns

Ensure the quality of a Thermo Scientific instrument when installed on site

- Optimized for system qualification tests for new GC-MS installations or during service/maintenance of an existing instrument
- We recommend reserving this column for benchmark testing only



TraceGOLD TG-SQC GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.25	26070-1300	1 Each
	30	0.25	26070-1420	1 Each

Applications:

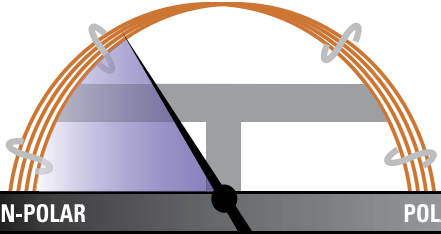
- System Qualification Tests (Thermo Scientific GC-MS)



TraceGOLD TG-35MS GC columns

Higher phenyl content for useful elution order and retention time changes

- Mid-polarity phase
- Equivalent to USP G42 phase



Phase:	35% diphenyl / 65% dimethyl polysiloxane
Max. Temps.:	300°C/320°C
USP Listing:	G42

TraceGOLD TG-35MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.25	26094-1300	1 Each
		0.25	26094-1420	1 Each
	30	0.5	26094-2230	1 Each
0.32	30	0.25	26094-1430	1 Each
		0.5	26094-2240	1 Each
	15	0.5	26094-2130	1 Each
0.53	30	1.0	26094-2980	1 Each
		1.5	26094-3360	1 Each

Applications:

- Organochlorine pesticides and herbicides
- Pharmaceuticals
- PCB congeners
- Aroclor mixes
- Sterols
- Rosin acids
- Phthalate esters

Similar to:

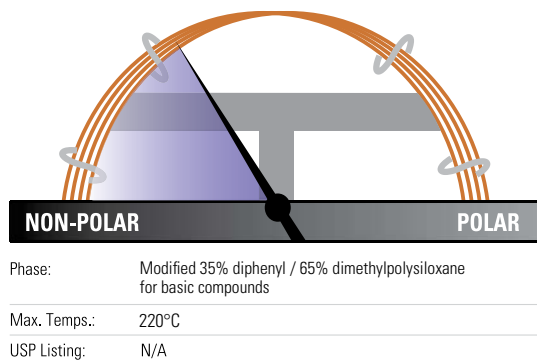
- Rtx-35
- BP-35
- HP-35
- SPB-35
- SPB-608

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-35MS AMINE GC columns

Chemically altered tubing surface reduces tailing and eliminates the need for column priming

- Mid-polarity phase, base optimized
- Developed for analysis of active basic compounds without derivatization
- Also allows analysis of neutral compounds and adsorptive compounds with oxygen groups susceptible to hydrogen bonding
- Low bleed at maximum operating temperature



TraceGOLD TG-35MS AMINE GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.5	26092-2230	1 Each
		1.0	26092-2960	1 Each
0.32	30	1.0	26092-2970	1 Each
		1.5	26092-3350	1 Each
0.53	15	1.0	26092-2860	1 Each
	30	1.0	26092-2980	1 Each

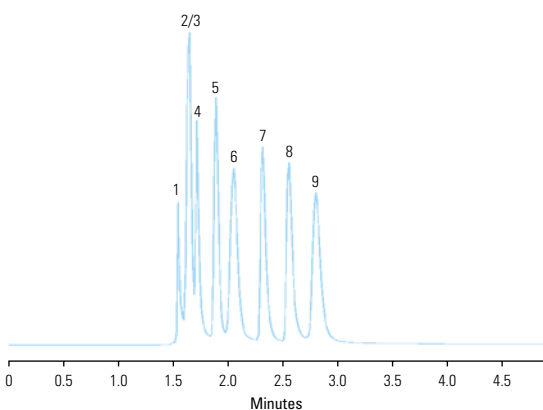
Applications:

- Amines including alkylamines, diamines, triamines and ethanolamines
- Nitrogen-containing heterocyclics

Similar to:

- Rtx-35 Amine

Primary amines



TG-35MS AMINE 30m x 0.53mm x 1.0µm

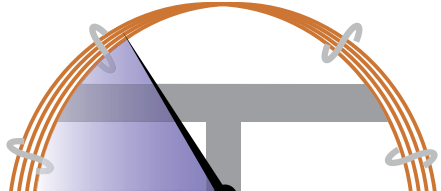
Temperature: 35°C (5 minute hold) Isothermal
 Detector Type: FID
 Carrier Gas: He
 Flow Rate: 35cm/sec
 Injection Volume: 1.0µL
 Injection Mode: Split (10:1), 250°C

- | | |
|-------------------|--------------------|
| 1. methylamine | 6. tert-butylamine |
| 2. dimethylamine | 7. n-propylamine |
| 3. trimethylamine | 8. diethylamine |
| 4. ethylamine | 9. sec-butylamine |
| 5. isopropylamine | |

TraceGOLD TG-1301MS GC columns

Low bleed, excellent reproducibility and column-to-column consistency even with sensitive detectors like ECD and MS

- Mid-polarity phase
- Long lifetime
- Excellent inertness
- Equivalent to USP G43 phase



NON-POLAR	POLAR
Phase:	6% cyanopropyl phenyl / 94% dimethyl polysiloxane
Max. Temps.:	260°C/280°C
USP Listing:	G43

TraceGOLD TG-1301MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26091-1420	1 Each
		1.0	26091-2960	1 Each
	60	0.25	26091-1540	1 Each
		1.0	26091-3080	1 Each
0.32	30	0.25	26091-1430	1 Each
		1.0	26091-2970	1 Each
		1.5	26091-3350	1 Each
	60	1.8	26091-3390	1 Each
		1.8	26091-3410	1 Each
		3.0	26091-4080	1 Each
0.53	30	1.0	26091-2980	1 Each
		3.0	26091-3960	1 Each
	60	3.0	26091-4080	1 Each

Applications:

- Alcohols
- Volatile organics
- Oxygenates
- Residual solvents

Similar to:

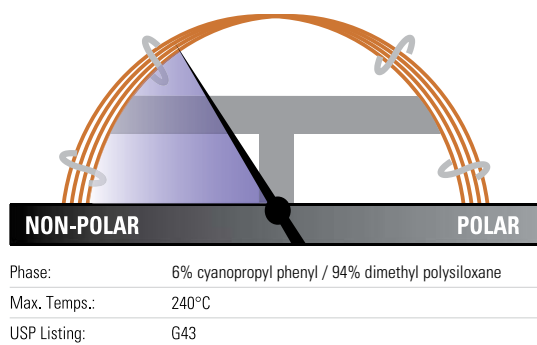
- Rtx-1301
- DB-1301
- BP-624
- HP-1301
- HP-624
- SPB-1301
- SPB-624
- VP-1301
- BF-624ms
- CP-1301
- CP-Select™ 624 CB

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-624 GC columns

Offers 90+% resolution of the first six gases in EPA Method 8260 and EPA Method 524.2 for volatile organics analysis

- Mid-polarity phase
- Ideal for EPA methods 624 and 608
- Allows resolution of 2-nitropropane from 1,1-dichloropropanone under EPA Method 524.2 revision IV



TraceGOLD TG-624 GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.18	20	1.0	26085-4950	1 Each
	40	1.0	26085-4960	1 Each
0.25	30	1.4	26085-3320	1 Each
	60	1.4	26085-3330	1 Each
0.32	30	1.8	26085-3390	1 Each
	60	1.8	26085-3410	1 Each
0.53	30	3.0	26085-3960	1 Each
	60	3.0	26085-4080	1 Each
	75	3.0	26085-4900	1 Each
	105	3.0	26085-4090	1 Each

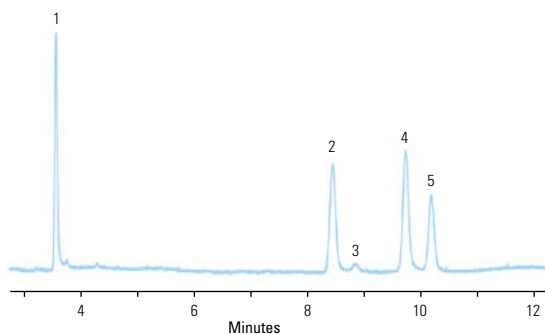
Applications:

- Residual Solvents
- Volatile Organic Compounds
- Alcohols
- Oxygenates

Similar to:

- DB-1301
- DB-624
- HP-1301
- HP-624
- SPB-1301
- SPB-624
- VF-1301
- VF-624ms
- CP-1301
- CP-Select 624 CB
- Rtx-624
- BP-624
- ZB-624
- Optima-1301
- Optima-624
- AT-624
- 007-1301

Residual solvents class 1



TG-624 30m x 0.32mm x 1.80µm

Temperature: 40°C (20 minute hold) to 240°C at 10°C/min (20 minute hold)

Detector Type: FID
 Carrier Gas: He
 Flow Rate: 2.15mL/min
 Injection Volume: 1mL
 Injection Mode: Headspace, Split (1:5), 140°C

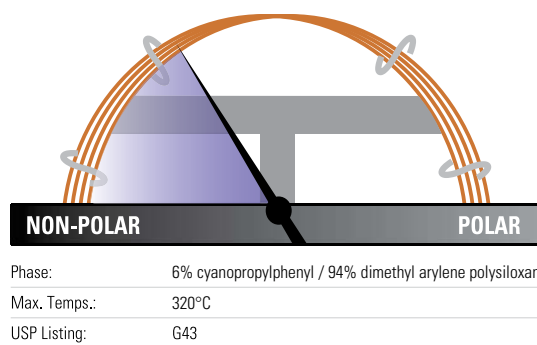
- 1,1-dichloroethane
- 1,1,1-trichloroethane
- carbon tetrachloride
- benzene
- 1,2-dichloroethane



TraceGOLD TG-624SiIMS GC Columns

High thermal stability column ideal for volatile organics analysis

- Mid-polarity phase
- High thermal stability – maximum temperatures up to 320°C
- Highly inert – excellent peak shape for a wide range of compounds



TraceGOLD TG-624SiIMS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.18	20	1.0	26059-4950	1 Each
0.25	30	1.4	26059-3320	1 Each
	60	1.4	26059-3330	1 Each
0.32	30	1.8	26059-3390	1 Each
	60	1.8	26059-3410	1 Each
0.53	30	3.0	26059-3960	1 Each
	60	3.0	26059-4080	1 Each

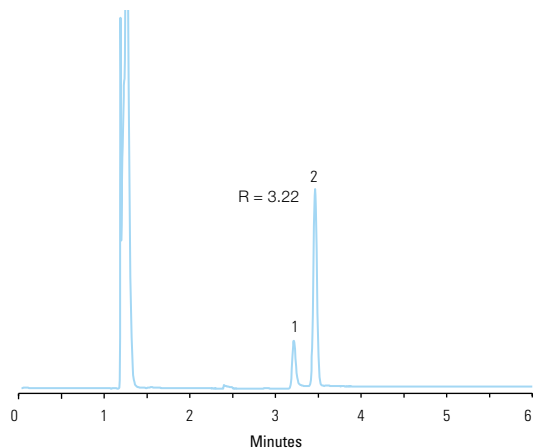
Applications:

- Residual Solvents
- Volatile Organic Compounds
- Alcohols
- Oxygenates

Similar to:

- DB-624 Ultra Inert
- VF-624ms
- CP-Select 624 CB
- ZB-624

Acetonitrile and Dichloromethane



TG-624SiIMS 30m x 0.32mm x 1.8µm

Temperature: 40°C for 6 minutes
 Detector Type: MS (ISQ); m/z 40,41 for Acetonitrile (1), m/z 49, 84 for Dichloromethane (2)
 Carrier Gas: Helium
 Flow Rate: 1.5 mL/min
 Injection Volume: 500µL
 Injection Mode: Headspace, Split (20:1) 220°C

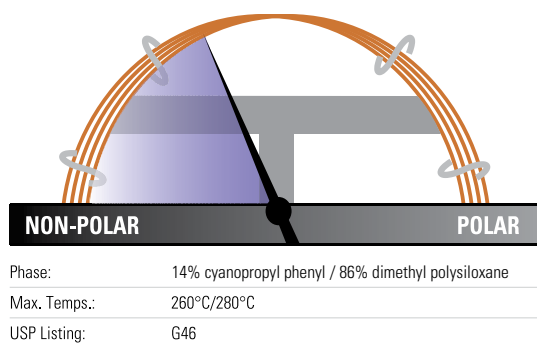
1. Acetonitrile
2. Dichloromethane

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-1701MS GC columns

Feature a mix of cyano and phenyl groups for increased polarity and a different elution order relative to less polar columns

- Mid-polarity phase, 14% cyanopropylphenyl methylpolysiloxane
- Fully characterized for long-term reproducibility, column-to-column consistency and low bleed
- Optimal for confirmation analysis
- Equivalent to USP G46 phase



TraceGOLD TG-1701MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26090-1420	1 Each
		0.5	26090-2230	1 Each
		1.0	26090-2960	1 Each
	60	0.25	26090-1540	1 Each
		1.0	26090-3080	1 Each
		0.25	26090-1310	1 Each
0.32	15	0.25	26090-1310	1 Each
		0.5	26090-2240	1 Each
		1.0	26090-2970	1 Each
	30	0.25	26090-1430	1 Each
		0.5	26090-2240	1 Each
		1.0	26090-2970	1 Each
0.53	60	0.25	26090-1550	1 Each
		1.0	26090-3090	1 Each
		0.25	26090-1440	1 Each
	30	1.0	26090-2980	1 Each
		0.25	26090-1440	1 Each
		3.0	26090-3960	1 Each

Applications:

- Alcohols
- Pesticides
- Oxygenates
- PCB congeners
- Aroclor mixes

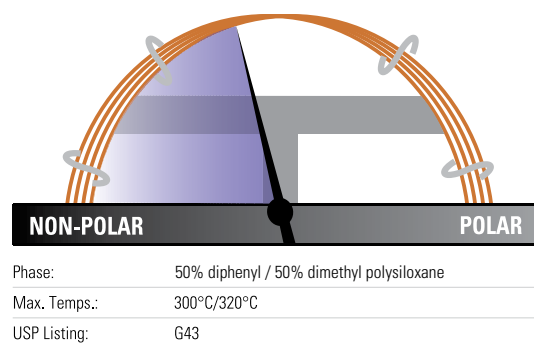
Similar to:

- Rtx-1701
- DB-1701
- HP-1701
- SPB-1701
- VF-1701
- CP-Sil™ 19 CB

TraceGOLD TG-17MS GC columns

Particularly suited to GC-MS applications that require more polarity than a 5% phenyl phase

- Mid-polarity phase
- Ideal for confirmational analysis
- Excellent inertness for active compounds such as pesticides
- Very low bleed ideal for analysis by GC-MS



TraceGOLD TG-17MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.25	26089-1300	1 Each
	30	0.25	26089-1420	1 Each
		0.5	26089-2230	1 Each
		1.0	26089-2960	1 Each
	60	0.25	26089-1540	1 Each
0.32	30	0.25	26089-1430	1 Each
		0.5	26089-2240	1 Each
		1.0	26089-2970	1 Each
0.53	30	0.25	26089-1440	1 Each
		1.0	26089-2980	1 Each
		1.5	26089-3360	1 Each

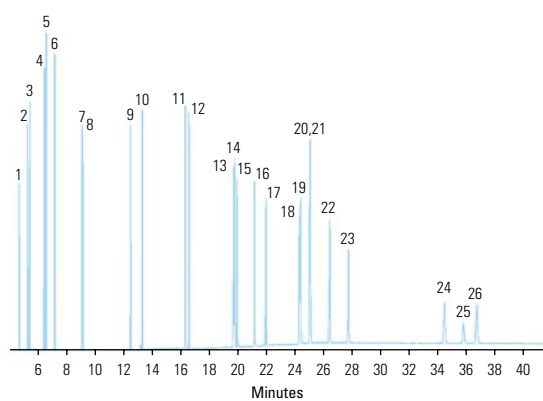
Applications:

- Pesticides and herbicides
- Rosin acids
- Phthalate esters
- Triglycerides
- Sterols

Similar to:

- Rxi-17
- DB-17
- DB-608
- VF-17ms
- CP-Sil 24 CB

Polycyclic aromatic hydrocarbons



TG-17MS 30m x 0.25mm x 0.25µm

Temperature: 90°C (1.0 minute hold) to 215°C (0.5 minute hold) at 25°C/minute to 235°C at 4°C/minute to 280°C/minute at 15°C/minute to 320°C (20 minute hold) at 4°C/minute

Detector Type: MS
 Carrier Gas: He
 Flow Rate: 1.2mL/min
 Injection Volume: 1.0µL
 Injection Mode: Splitless, 300°C

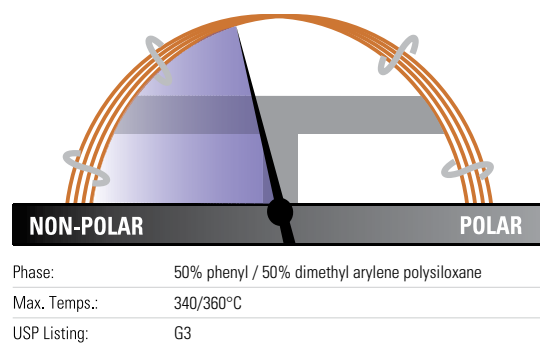
- | | |
|--------------------------|------------------------------|
| 1. naphthalene | 15. benzo(j)fluoranthene |
| 2. 1-methylnaphthalene | 16. benzo(a)pyrene |
| 3. 2-methylnaphthalene | 17. 3-methylcholanthrene |
| 4. acenaphthylene | 18. dibenzo(a,h)acridine |
| 5. acenaphthene | 19. dibenzo(a,j)acridine |
| 6. fluorene | 20. indeno(1,2,3-cd)pyrene |
| 7. phenanthrene | 21. dibenzo(a,h)anthracene |
| 8. anthracene | 22. benzo(ghi)perylene |
| 9. fluoranthene | 23. 7H-dibenzo(c,g)carbazole |
| 10. pyrene | 24. dibenzo(a,e)pyrene |
| 11. benzo(a)anthracene | 25. dibenzo(a,i)pyrene |
| 12. chrysene | 26. dibenzo(a,h)pyrene |
| 13. benzo(b)fluoranthene | |
| 14. benzo(k)fluoranthene | |

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-17SiIMS GC columns

Excellent separation of active environmental compounds

- Mid-polarity phase
- High thermal stability – maximum temperatures up to 340/360°C
- Excellent inertness for active environmental compounds such as PAHs



TraceGOLD TG-17SiIMS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.15	10	0.15	26072-2750	1 Each
0.18	20	0.18	26072-5780	1 Each
0.25	30	0.25	26072-1420	1 Each
0.32	30	0.25	26072-1430	1 Each

Applications:

- PAHs
- Pesticides and herbicides
- Phthalate esters
- Triglycerides

Similar to:

- DB-1 7ms
- VF-17ms
- CP-Sil 24 CB
- ZB-50
- BPX-50

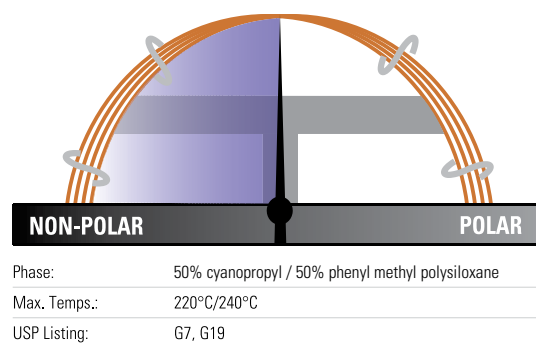
Learn more at thermofisher.com/GCcolumns



TraceGOLD TG-225MS GC columns

Offers better thermal stability than comparable columns

- Polar phase
- Innovative deactivation process for siloxane reduces tailing and improves efficiency over comparable columns
- Equivalent to USP G7, G19 phases



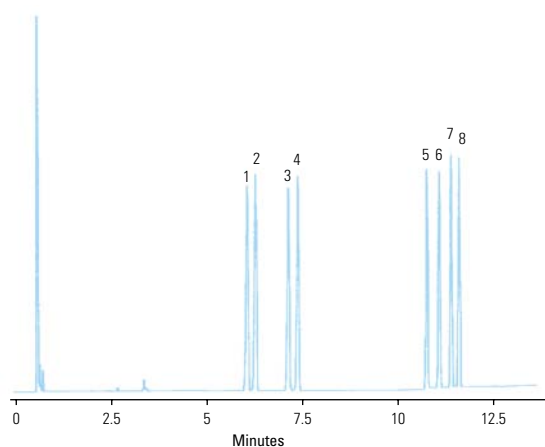
TraceGOLD TG-225MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26083-1420	1 Each
	60	0.25	26083-1540	1 Each
0.32	30	0.25	26083-1430	1 Each

Applications:

- FAMES
- Carbohydrates
- Sterols
- Flavor compounds

Sugars



TG-225MS 15m x 0.25mm x 0.25µm

Temperature: 190°C (5 minute hold) to 250°C at 8°C/min (5 minute hold)

Detector Type: FID
 Carrier Gas: Hydrogen
 Flow Rate: 45cm/sec
 Injection Volume: 0.5µL
 Injection Mode: Split (35:1), 260°C

1. rhamnitol	5. mannitol
2. fucitol	6. galactitol
3. ribitol	7. glucitol
4. arabinitol	8. inositol

Similar to:

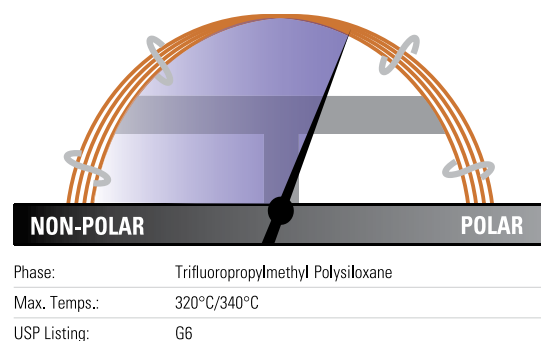
- Rtx-225
- DB-225
- HP-225
- SPB-225

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-200MS GC columns

Exceptionally inert mid-polarity columns with selectivity and elution order optimized for difficult separations

- Polar phase, trifluoropropyl methylpolysiloxane solid phase resolves compounds that phenyl and cyano phases cannot
- Outstanding thermal stability and low bleed
- Suitable for use with sensitive detectors including ECD, NPD and MS
- Confirmation column in combination with another GC column



TraceGOLD TG-200MS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.15	20	0.15	26084-2760	1 Each
0.25	30	0.25	26084-1420	1 Each
		1.0	26084-2960	1 Each
0.32	30	0.25	26084-1430	1 Each
		0.5	26084-2240	1 Each
		1.0	26084-2970	1 Each

Applications:

- Solvents
- Fluorocarbons
- Alcohols and ketones
- Silanes
- Glycols

Similar to:

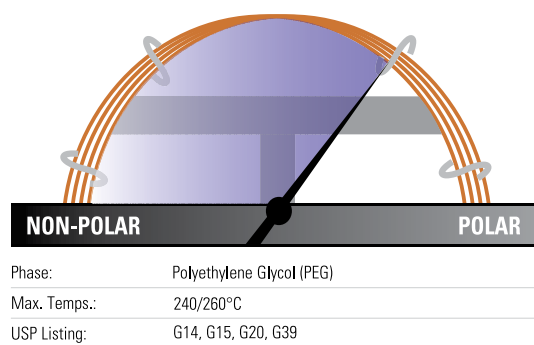
- Rtx-200MS
- DB-200
- DB-210



TraceGOLD TG-WaxMS GC columns

Manufactured for better column-to-column reproducibility

- Polar phase, polyethylene glycol
- Polar-deactivated surface tightly binds polymer for excellent thermal stability
- Resists oxidative damage, damage from strongly acidic or basic volatiles better than silicone solid phases



TraceGOLD TG-WaxMS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.1	10	0.1	26088-0200	1 Each
0.25	15	0.25	26088-1300	1 Each
	30	0.25	26088-1420	1 Each
		0.5	26088-2230	1 Each
	30 with 5m SafeGuard	0.25	26088-1421	1 Each
	60	0.25	26088-1540	1 Each
		0.5	26088-2350	1 Each
0.32	15	0.5	26088-2120	1 Each
		0.25	26088-1430	1 Each
	30	0.5	26088-2240	1 Each
		1.0	26088-2970	1 Each
		0.25	26088-1435	1 Each
	60	0.25	26088-1550	1 Each
		0.5	26088-2360	1 Each
		1.0	26088-3090	1 Each
0.53	15	0.5	26088-2130	1 Each
		1.0	26088-2860	1 Each
	30	0.25	26088-1440	1 Each
		0.5	26088-2250	1 Each
		1.0	26088-2980	1 Each
		1.5	26088-3360	1 Each
	60	0.25	26088-1560	1 Each
		0.5	26088-2370	1 Each
		1.0	26088-3100	1 Each

Applications:

- FAMES
- Flavor compounds and essential oils
- Solvents
- Xylene isomers
- EPA Method 603 for Acrolein/ Acrylonitrile

Similar to:

- DB-WAX
- DB-WAXetr
- HP-Wax
- HP-Innowax
- Supelcowax 10
- CP-Wax 52 CB
- Stabilwax
- Rtx-Wax
- BP20
- ZB-Wax
- Optima Wax
- AT-Wax

TraceGOLD TG-WaxMT Metal GC columns

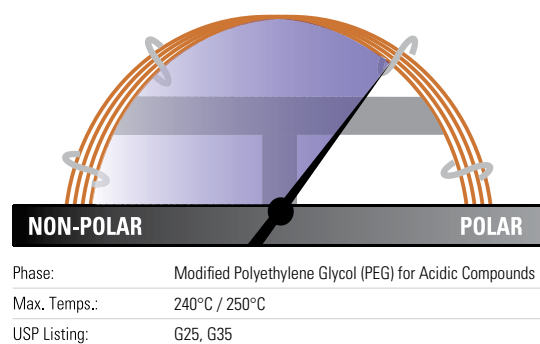
ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26M88-1420	1 Each
	60	0.25	26M88-1540	1 Each

Learn more at [thermofisher.com/GCcolumns](https://www.thermofisher.com/GCcolumns)

TraceGOLD TG-WaxMS A GC columns

Acidic functionality in the polymer structure allows analysis of acidic compounds without derivatization

- Polar phase, acid-deactivated polyethylene glycol
- Resists oxidative damage and adsorption of acids
- Excellent peak shapes for high MW acids
- Equivalent to USP G25, G35 phases



TraceGOLD TG-WaxMS A GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	15	0.25	26087-1300	1 Each
	30	0.25	26087-1420	1 Each
		0.5	26087-2230	1 Each
	60	0.25	26087-1540	1 Each
0.32	15	0.25	26087-1310	1 Each
	30	0.25	26087-1430	1 Each
		0.5	26087-2240	1 Each
		1.0	26087-2970	1 Each
0.53	15	1.0	26087-2860	1 Each
	30	0.25	26087-1440	1 Each
		1.0	26087-2980	1 Each

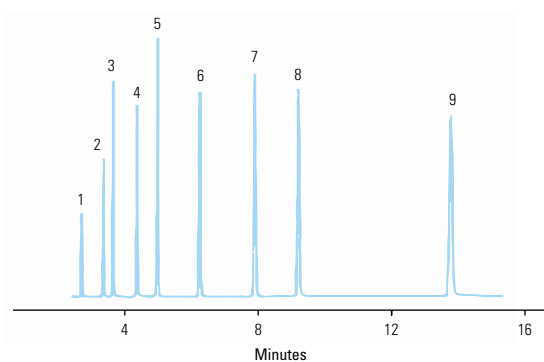
Applications:

- Organic acids
- Free fatty acids
- Alcohols

Similar to:

- DB-FFAP
- HP-FFAP
- NUKOL
- OV-351
- CP-Wax 58 CB
- FFAP
- Stabilwax-DA
- BP-21
- Optima FFAP

Free fatty acids



TG-WaxMS A 30m x 0.25mm x 0.25µm

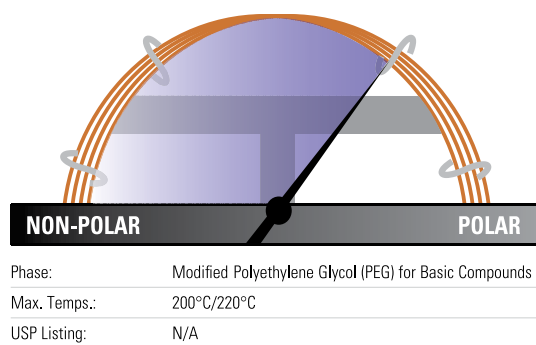
Temperature: 145°C Isothermal
 Detector Type: FID
 Carrier Gas: Hydrogen
 Flow Rate: 40cm/sec
 Injection Volume: 1.0µL
 Injection Mode: Split (50:1), 250°C

- | | |
|--------------------|--------------------|
| 1. acetic acid | 7. isocaproic acid |
| 2. propionic acid | 8. caproic acid |
| 3. isobutyric acid | 9. heptanoic acid |
| 4. n-butyric acid | |
| 5. isovaleric acid | |
| 6. n-valeric acid | |

TraceGOLD TG-WaxMS B GC columns

Base deactivation allows analysis of basic analytes without derivatization or column priming

- Polar phase, base deactivated polyethylene glycol
- Reduced absorption and improved responsiveness for basic compounds
- Not suitable for use with water or alcohols



TraceGOLD TG-WaxMS B GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26086-1420	1 Each
		0.5	26086-2230	1 Each
0.32	30	0.25	26086-1430	1 Each
0.53	30	1.0	26086-2980	1 Each

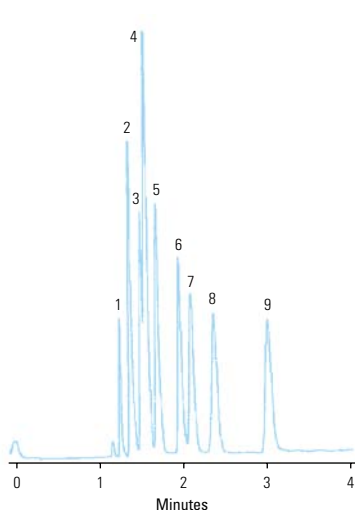
Applications:

- Amines
- Alkylamines
- Diamines
- Other basic compounds

Similar to:

- CAM
- Carbowax™ Amine
- CP Wax51
- Stabilwax-DB

Amines



TG-WaxMS B 30m x 0.53mm x 1.0µm

Temperature: 45°C Isothermal
 Detector Type: FID
 Carrier Gas: Hydrogen
 Flow Rate: 40cm/sec
 Injection Volume: 1µL
 Injection Mode: Direct Injection, 250°C

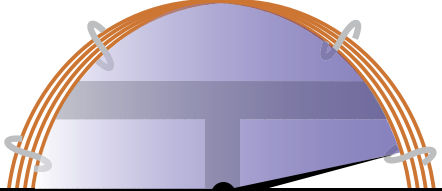
- | | |
|-------------------|--------------------|
| 1. trimethylamine | 7. tert-butylamine |
| 2. dimethylamine | 8. diethylamine |
| 3. ethylamine | 9. sec-butylamine |
| 4. methylamine | |
| 5. isopropylamine | |
| 6. n-propylamine | |

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-POLAR GC columns

Specifically designed polymer and surface treatment overcome traditional problems with high-polarity columns

- Highly polar phase
- Strong dipole moment and high selectivity for cis/trans compounds or compounds with conjugated double bonds
- Equivalent to USP G8 and G48



NON-POLAR	POLAR
Phase:	90% biscyanopropyl / 10% cyanopropyl phenyl polysiloxane
Max. Temps.:	260°C/275°C
USP Listing:	G8, G48

TraceGOLD TG-POLAR GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.1	26082-0470	1 Each
		0.2	26082-5010	1 Each
	60	0.1	26082-0590	1 Each
		0.2	26082-5020	1 Each
	105	0.1	26082-5000	1 Each
		0.2	26082-5030	1 Each
0.32	30	0.2	26082-5040	1 Each
	60	0.2	26082-5050	1 Each

Applications:

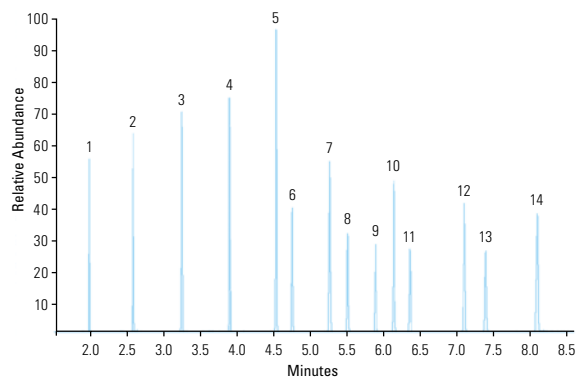
- Cis/Trans FAMES
- Dioxins

Similar to:

- DB-23
- HP-23
- Rtx-2330
- SP-2330
- SP-2380
- SPB-2560
- HP-88

- Silar 10c
- CP-Sil 88 FAME
- CP-Sil 88
- BPX 70
- BPX 90

FAMES C8-C24



TG-POLAR 30m x 0.25mm x 0.2µm

Temperature: 100°C (0.5 minute hold) to 195°C at 25°C/minute (1 minute hold) to 250°C at 10°C/minute (3 minute hold)

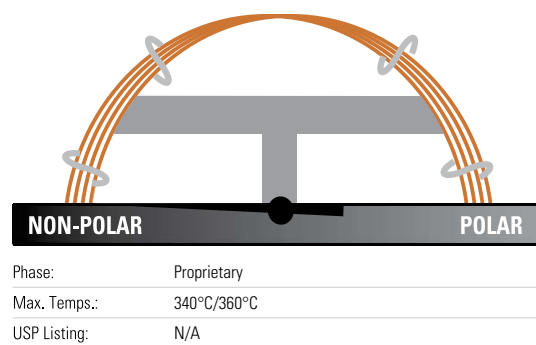
Detector Type: MS
 Carrier Gas: He
 Flow Rate: 1.2mL/min
 Injection Volume: 0.1µL
 Injection Mode: Split (100:1), 250°C

- | | |
|------------------------|-------------------------------|
| 1. Methyl octanoate | 10. Methyl linolenate |
| 2. Methyl decanoate | 11. Methyl arachidate |
| 3. Methyl decanoate | 12. Methyl behenate |
| 4. Methyl myristate | 13. Methyl cis-13-docosenoate |
| 5. Methyl palmitate | 14. Methyl tetracosanoate |
| 6. Methyl palmitoleate | |
| 7. Methyl stearate | |
| 8. Methyl oleate | |
| 9. Methyl linoleate | |

TraceGOLD TG-XLBMS GC columns

General purpose columns exhibiting extremely low bleed

- Low polarity phase, proprietary
- Low bleed for excellent signal-to-noise ratio, sensitivity and mass spectral integrity
- Ideal for analysis of active, high molecular weight compounds with sensitive GC-MS systems



TraceGOLD TG-XLBMS GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.18	20	0.18	26079-5780	1 Each
	15	0.25	26079-1300	1 Each
0.25	30	0.25	26079-1420	1 Each
		0.5	26079-2230	1 Each
	60	0.25	26079-1540	1 Each
0.32	30	0.25	26079-1430	1 Each

Applications

- Pesticides
- PCB congeners
- PAHs
- Aroclor mixes

Similar to:

- Rxi-XLB
- DB-XLB
- VF-Xms

Semi-Volatile organic compounds (SVOC) application kit

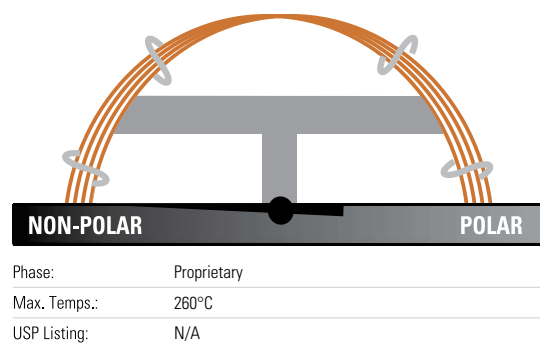
Description	Cat. No	Quantity
Semi-Volatile Organic Compounds (SVOC) Application kit	60181-736	1 Each
Contains the following:		
TG-5MS GC COLUMN 30MX0.25MMX 0.50MM	26098-2230	1 Each
BTO Septa 11mm Diameter (Blister Pack)	31303233-BP	50 Pack
LINERGOLD PRECISION LINER, WOOL, 4X6.3X78.5MM 5PK	453A1255-UI	5 Pack
LinerGOLD Splitless Liner, Single Taper, Wool 4x6.5x78.5mm	453A1925-UI	5 Pack
Gold Plated Inlet Seals, 0.8mm	290GA082	2 Pack
Liner Sealing Ring for SSL / 5pk	29001320	5 Pack
Column Nut for SSL & SSLBackflush	35050458	5 Pack
15/85 GRAPH/VESP Ferrule for 0.1-0.25mmID column	290VA191	10 Pack
SILANIZED AMB TARGET DP-IDVIAL, 100/PK	c4000-s2w	100 Pack
AVCS BLUE CAP&TS SEPTA100/PK,1000/CS	c5000-54b	100 Pack
10UL FN SYRINGE, 50MM LENGTH23 GAUGE, CONE 1/PK	36520060	1 Each

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-VRX GC columns

Application specific column for volatile organic pollutants

- Highly stable polymer phase
- Low bleed for excellent signal-to-noise ratio, sensitivity and mass spectral integrity
- Excellent resolution for analysis of volatile compounds
- Fast analysis times for volatile compounds



TraceGOLD TG-VRX GC columns

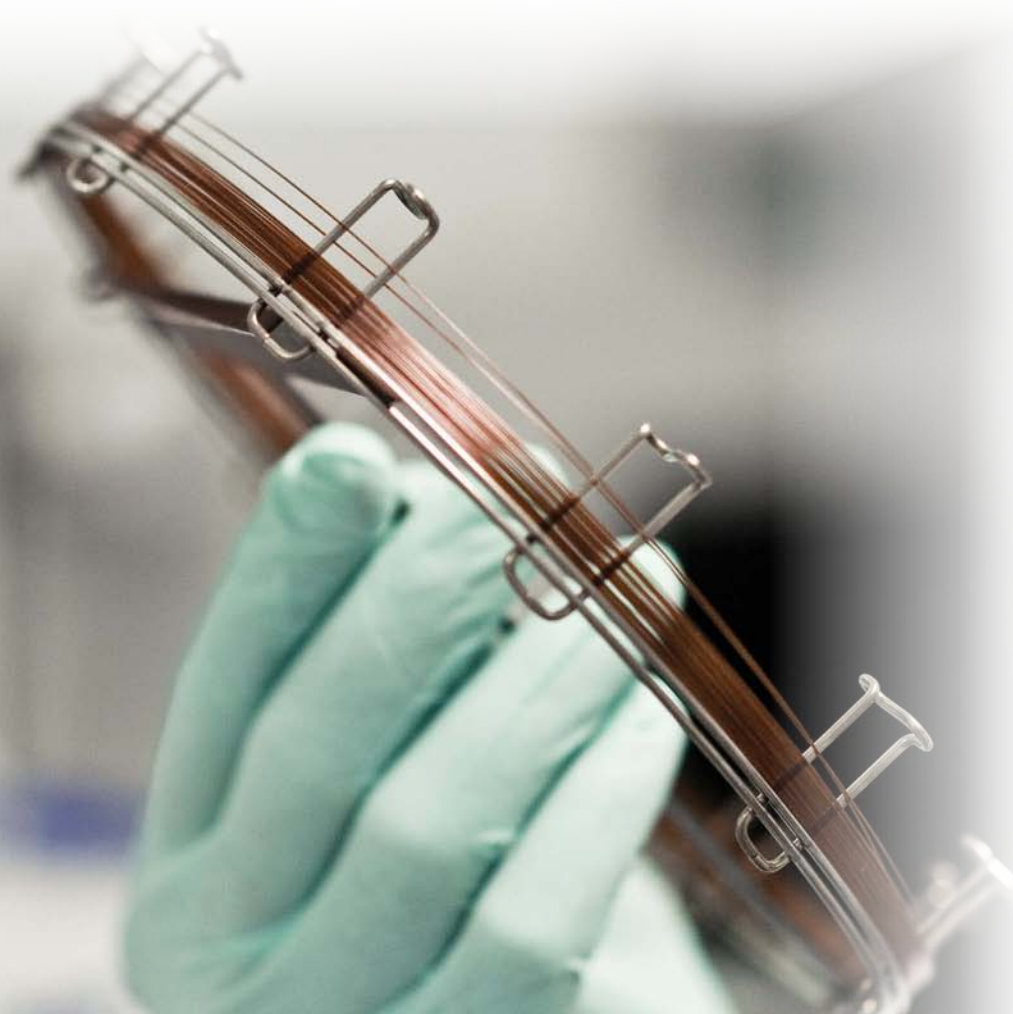
ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.18	20	1.0	26081-4950	1 Each
	40	1.0	26081-4960	1 Each
0.25	30	1.4	26081-3320	1 Each
	60	1.4	26081-3330	1 Each
0.32	30	1.8	26081-3390	1 Each
	60	1.8	26081-3410	1 Each

Applications:

- Volatile organic pollutants
- US EPA Method 8021 compounds

Similar to:

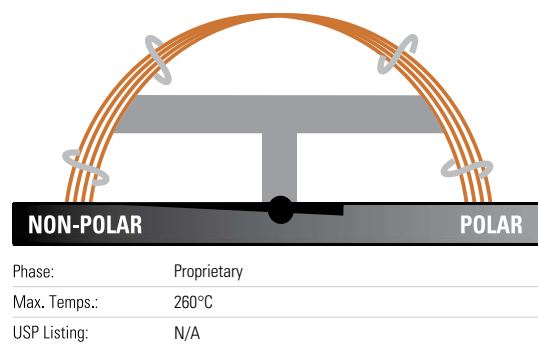
- Rtx-VRX
- DB-VRX



TraceGOLD TG-VMS GC columns

Application specific column for volatile organic pollutants

- Highly stable polymer phase
- Low bleed for excellent signal-to-noise ratio, sensitivity and mass spectral integrity
- Excellent resolution for analysis of volatile compounds
- Fast analysis times for volatile compounds



TraceGOLD TG-VMS GC columns

ID (mm)	Length (m)	Film Thickness (μm)	Cat. No.	Quantity
0.18	20	1.0	26080-4950	1 Each
0.25	30	1.4	26080-3320	1 Each
	60	1.4	26080-3330	1 Each
0.32	60	1.8	26080-3410	1 Each

Applications:

- Volatile organic pollutants
- US EPA Method 8260B compounds

Similar to:

- Rtx-VMS

Volatile organic compound (VOC) application kit

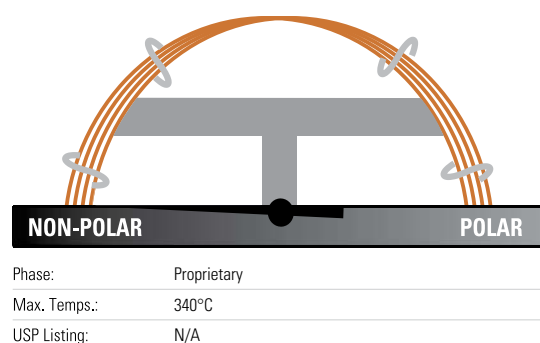
Description	Cat. No.	Quantity
Volatile Organic Compound(VOC) Apps Kit	60181-734	1 Each
Contains the following:		
TG-VMS GC Column, 20m x 0.18mm x 1.00 μm	26080-4950	1 Each
BTO Septa 11mm Diameter (Blister Pack)	31303233-BP	50 Pack
LinerGOLD Split Liner 1x6.3x78.5mm	453A1335-UI	5 Pack
LinerGOLD Splitless Liner, Single Taper, Wool 4x6.5x78.5mm	453A1925-UI	5 Pack
Gold Plated Inlet Seals, 0.8mm	290GA082	2 Pack
Liner Sealing Ring for SSL	29001320	5 Pack
Column Nut for SSL & SSL Backflush	35050458	5 Pack
15/85 GRAPH/VESP Ferrule for 0.1-0.25mm ID column	290VA191	10 Pack
SILANIZED AMB TARGET DP-IDVIAL,	c4000-s2w	100 Pack
AVCS BLUE CAP&TS SEPTA	c5000-54b	100 Pack
CLR 40ML EPA ASM VIAL KIT, 1000 CLASS,	B7950	100 Pack

Learn more at thermofisher.com/GCcolumns

TraceGOLD TG-OCP I / TG-OCP II GC columns

Application-specific columns for organochlorine pesticides and herbicides

- Low bleed for excellent signal-to-noise ratio, sensitivity and mass spectral integrity
- Fast analysis time giving full separation of chlorinated pesticides
- Ideal for US EPA methods 8081, 608 and CLP



TraceGOLD TG-OCP I GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26078-1420	1 Each
0.32	30	0.32	26078-5760	1 Each

Applications:

- Organochlorine pesticides
- Herbicides

Similar to:

- Rtx-CLPesticides/
Rtx-CLPesticides2

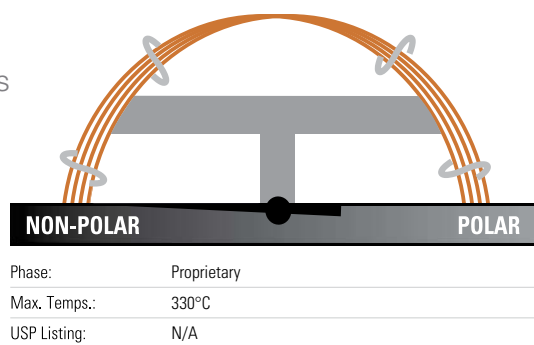
TraceGOLD TG-OCP II GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.18	20	0.14	26077-5690	1 Each
0.25	30	0.2	26077-5720	1 Each
0.32	30	0.25	26077-1430	1 Each

TraceGOLD TG-OPP I / TG-OPP II GC columns

Application-specific columns for organophosphorus pesticides

- Low bleed for excellent signal-to-noise ratio, sensitivity and mass spectral integrity
- Fast analysis time giving full separation of organophosphorus pesticides
- Ideal for US EPA methods 8141A



TraceGOLD TG-OPP I GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26076-1420	1 Each
0.32	30	0.5	26076-2240	1 Each

TraceGOLD TG-OPP II GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.25	30	0.25	26075-1420	1 Each
0.32	30	0.32	26075-5760	1 Each
0.53	30	0.5	26075-2250	1 Each

Applications:

- Organophosphorus pesticides

Similar to:

- Rtx-OPPesticides/
Rtx-OPPesticides2

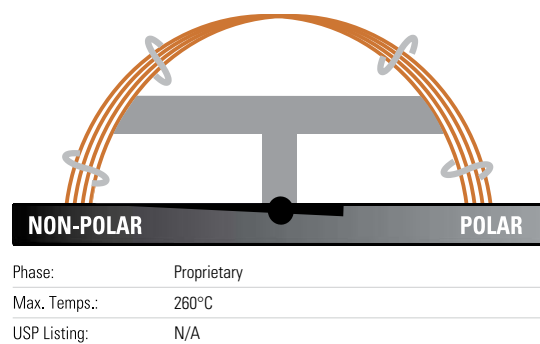
Learn more at thermofisher.com/GCcolumns



TraceGOLD TG-ALC Plus I / TG-ALC Plus II GC columns

Application-specific columns for blood alcohol analysis

- Low bleed for excellent signal-to-noise ratio, sensitivity and mass spectral integrity
- Fast analysis time giving full separation of blood alcohols



TraceGOLD TG-ALC Plus I GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.32	30	1.8	26063-3390	1 Each
0.53	30	3.0	26063-3960	1 Each

TraceGOLD TG-ALC Plus II GC columns

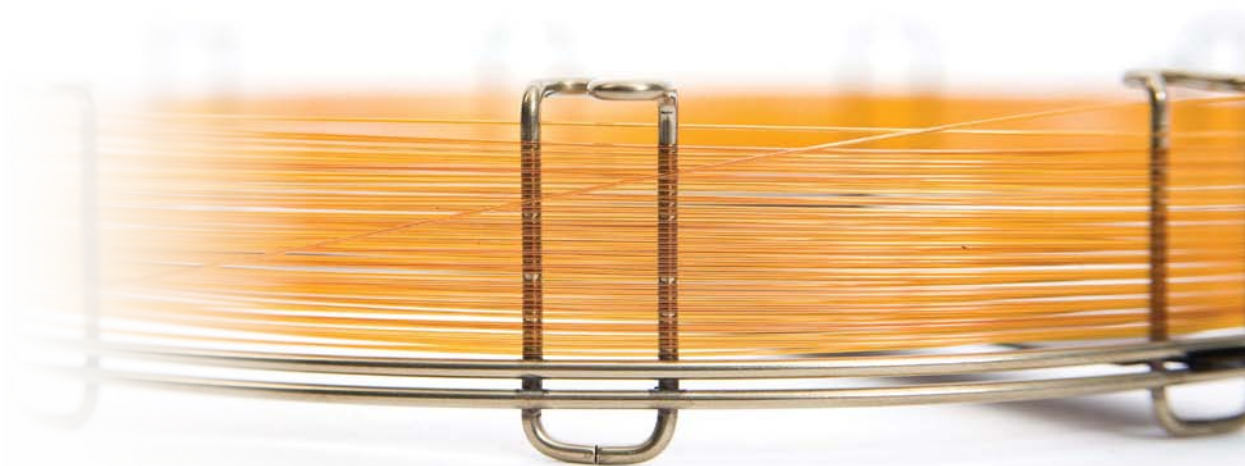
ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.32	30	0.5	26063-2240	1 Each
0.53	30	1.0	26063-2980	1 Each

Applications:

- Blood alcohol analysis
- Abused inhalent anesthetics
- γ-hydroxybutyrate (GHB)
- γ-butyrolactone (GBL)
- Glycols
- Common industrial solvents

Similar to:

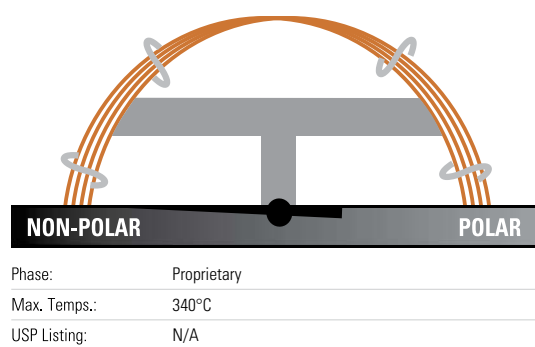
- Rtx BAC Plus 1 / Rtx BAC Plus 2



TraceGOLD TG-Dioxin GC columns

Excellent separation of toxic dioxin and furan congeners

- Isomer specificity for 2,3,7,8-TCDD and 2,3,7,8-TCDF achieved with a single GC column
- High thermal stability – maximum temperatures up to 340°C
- Unique selectivity for toxic dioxin and furan congeners allows use as a confirmation GC column



TraceGOLD TG-Dioxin GC columns

ID (mm)	Length (m)	Film Thickness (µm)	Cat. No.	Quantity
0.18	40	0.18	26066-4800	1 Each
0.25	60	0.25	26066-1540	1 Each

Applications:

- Dioxins
- Furans

Similar to:

- Rtx-Dioxin2
- DB-Dioxin

Persistent organic pollutants (POPs) confirmation kit

Description	Cat. No	Quantity
Persistent Organic Pollutants (POPs) Confirmation kit	TS-MKITG503	1 Each
Contains the following:		
TG-Dioxin GC Column 60m x0.25mmx0.25µm	26066-1540	1 Each
BTO Septa 11mm Diameter (Blister Pack)	31303233-BP	50 Pack
LINERGOLD PRECISION LINER, WOOL, 4X6.3X78.5MM 5PK	453A1255-UI	5 Pack
LinerGOLD Splitless Liner, Single Taper, Wool 4x6.5x78.5mm	453A1925-UI	5 Pack
GOLD PLATED INLET SEALS, FORAGILENT GC'S, 0.8MM, 2PK	290GA082	2 Pack
Liner Sealing Ring for SSL	29001320	5 Pack
Column Nut for SSL & SSLBackflush	35050458	5 Pack
15/85 GRAPH/VESP Ferrule for 0.1-0.25mmID column	290VA191	10 Pack
1.1ML SCREW VIAL 500/PK CLR TAPERED 12x32MM	1.1-STVG	500 Pack
8mm SCREW CAP 500/PK PREFI WITH SILICONE/TEFLON LINER	8-SC-ST15	500 Pack
10UL FN SYRINGE, 57MM LENGTH23S GAUGE, CONE 1/PK	365D0271	1 Each

Learn more at thermofisher.com/GCcolumns