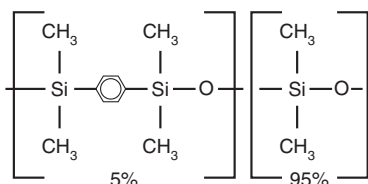


Rxi®-5Sil MS Structure



Similar to: (5%-phenyl)-methylpolysiloxane

similar phases

DB-5ms, DB-5msUI, VF-5ms, ZB-5ms, ZB-SemiVolatiles, Rtx-5Sil MS

free literature

Rxi®-5Sil MS Columns
Assured Performance
for Forensic
Applications

lit. cat.#
CFBR1302A



Accurately Determine Mineral
Oil Hydrocarbons in Food and
Packaging

lit. cat.#
FFTS1921-UNV



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Rxi®-5Sil MS Columns (fused silica)

(low-polarity phase; Crossbond® 1,4-bis(dimethylsiloxy)phenylene dimethyl polysiloxane)

- Engineered to be a low-bleed GC-MS column.
- Excellent inertness for active compounds.
- General-purpose columns—ideal for GC-MS analysis of semivolatiles, polycyclic aromatic compounds, chlorinated hydrocarbons, phthalates, phenols, amines, organochlorine pesticides, organophosphorus pesticides, drugs, solvent impurities, and hydrocarbons.
- Temperature range: -60 °C to 350 °C.

The Rxi®-5Sil MS stationary phase incorporates phenyl groups in the polymer backbone. This improves thermal stability, reduces bleed, and makes the phase less prone to oxidation. Rxi®-5Sil MS columns are ideal for GC-MS applications requiring high sensitivity, including use in ion trap systems.

ID	df	temp. limits	15-Meter cat.#	30-Meter cat.#	60-Meter cat.#
0.25 mm	0.10 µm	-60 to 320/350 °C	13605	13608	
	0.25 µm	-60 to 320/350 °C	13620	13623	13626
	0.50 µm	-60 to 320/350 °C	13635	13638	
	1.00 µm	-60 to 320/350 °C	13650	13653	13697
0.32 mm	0.25 µm	-60 to 320/350 °C	13621	13624	
	0.50 µm	-60 to 320/350 °C		13639	
	1.00 µm	-60 to 320/350 °C		13654	
0.53 mm	1.50 µm	-60 to 320/330 °C		13670	

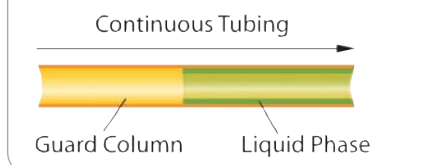
ID	df	temp. limits	10-Meter cat.#	20-Meter cat.#	40-Meter cat.#	60-Meter cat.#
0.15 mm	0.15 µm	-60 to 320/350 °C	43815	43816		
	2.0 µm	-60 to 320/350 °C		43817		
0.18 mm	0.10 µm	-60 to 320/350 °C				43607
	0.18 µm	-60 to 320/350 °C		43602	43605	
	0.36 µm	-60 to 320/350 °C		43604		

Rxi®-5Sil MS with Integra-Guard®

- Extend column lifetime.
- Eliminate leaks with a built-in retention gap.
- Inertness verified by isothermal testing.

Description	qty.	cat.#
15 m, 0.25 mm ID, 0.25 µm Rxi-5Sil MS w/10 m Integra-Guard Column	ea.	13620-127
30 m, 0.25 mm ID, 0.25 µm Rxi-5Sil MS w/5 m Integra-Guard Column	ea.	13623-124
30 m, 0.25 mm ID, 0.25 µm Rxi-5Sil MS w/10 m Integra-Guard Column	ea.	13623-127
15 m, 0.25 mm ID, 0.50 µm Rxi-5Sil MS w/5 m Integra-Guard Column	ea.	13635-124
30 m, 0.25 mm ID, 0.50 µm Rxi-5Sil MS w/5 m Integra-Guard Column	ea.	13638-124
30 m, 0.25 mm ID, 0.50 µm Rxi-5Sil MS w/10 m Integra-Guard Column	ea.	13638-127
30 m, 0.32 mm ID, 0.50 µm Rxi-5Sil MS w/5 m Integra-Guard Column	ea.	13639-125
30 m, 0.32 mm ID, 1.00 µm Rxi-5Sil MS w/5 m Integra-Guard Column	ea.	13654-125

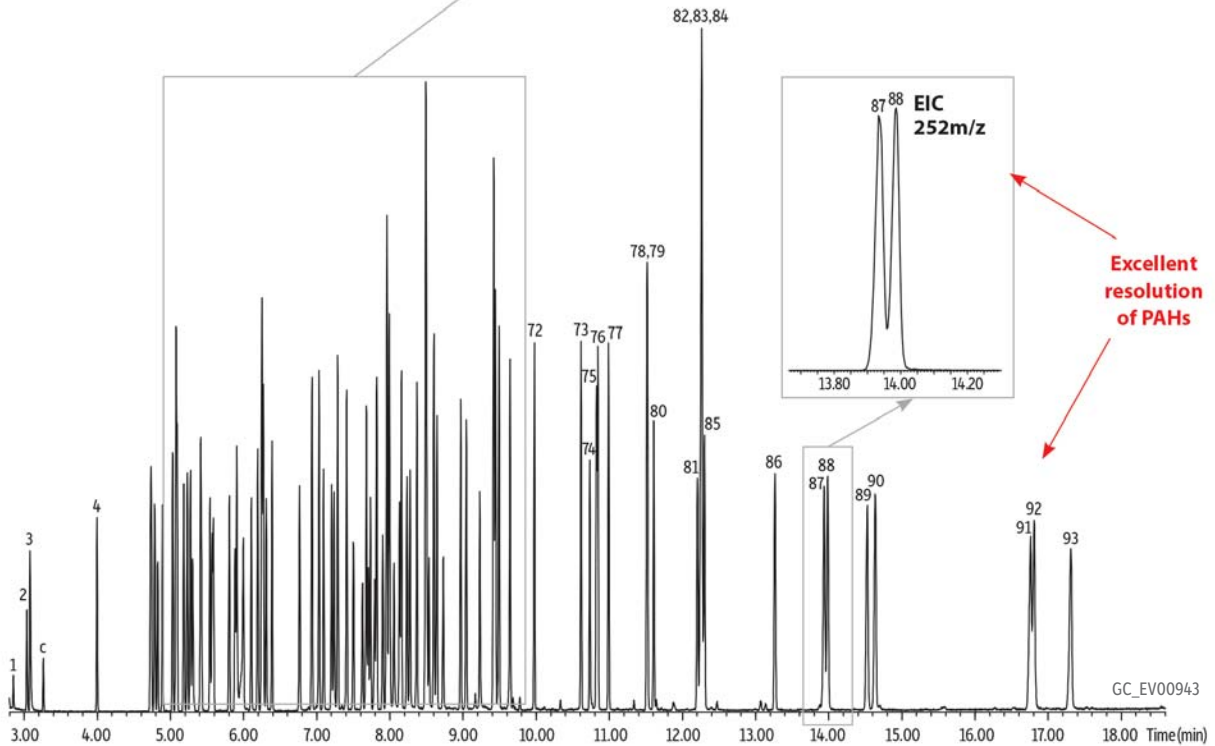
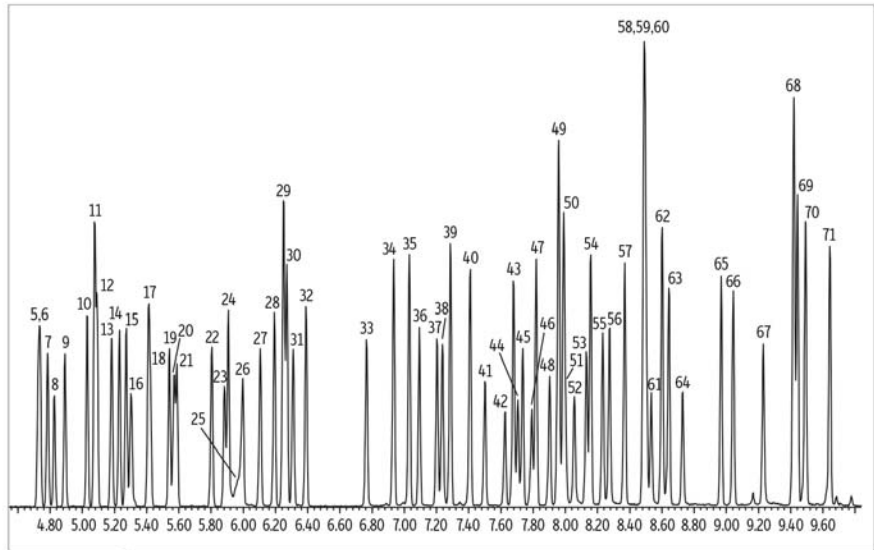
Integra-Guard® Built-In Guard Column



String indicates where the analytical column begins.

Semivolatiles by EPA Method 8270 on Rxi®-5Sil MS (30 m, 0.25 mm ID, 0.25 µm) w/Drilled Uniliner® Inlet Liner

Column Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Sample 8270 MegaMix® (cat.# 31850)
 Benzoic acid (cat.# 31879)
 8270 Benzidines mix (cat.# 31852)
 Acid surrogate mix (4/89 SOW) (cat.# 31025)
 Revised B/N surrogate mix (cat.# 31887)
 1,4-Dioxane (cat.# 31853)
 SV internal standard mix (cat.# 31206)
Conc.: 10 µg/mL (IS 40 µg/mL)
Injection
 Inj. Vol.: 1.0 µL pulsed splitless (hold 0.15 min)
 Liner: 4 mm drilled Uniliner® (hole near bottom) (cat.# 20756)
 Inj. Temp.: 250 °C
 Pulse Pressure: 25 psi (172.4 kPa)
 Pulse Time: 0.2 min
 Purge Flow: 60 mL/min
Oven
 Oven Temp.: 40 °C (hold 1.0 min) to 280 °C at 25 °C/min to 320 °C at 5 °C/min (hold 1 min)
Carrier Gas
 Flow Rate: He, constant flow
 1.2 mL/min
Detector
 Mode: Scan
 Transfer Line Temp.: 280 °C
 Ionization Mode: EI
 Scan Range: 35-550 amu



Peaks	17. 4-Methylphenol/3-methylphenol	34. 2-Methylnaphthalene	52. 4-Nitrophenol	66. Hexachlorobenzene	85. Chrysene
1. 1,4-Dioxane	18. N-Nitrosodi-N-propylamine	35. 1-Methylnaphthalene	53. 2,4-Dinitrotoluene	67. Pentachlorophenol	86. Di-n-octyl phthalate
2. N-Nitrosodimethylamine	19. Hexachloroethane	36. Hexachlorocyclopentadiene	54. Dibenzofuran	68. Phenanthrene-d10 (IS)	87. Benzo[b]fluoranthene
3. Pyridine	20. Nitrobenzene-d5 (SS)	37. 2,4,6-Trichlorophenol	55. 2,3,5,6-Tetrachlorophenol	69. Phenanthrene	88. Benzo[k]fluoranthene
4. 2-Fluorophenol (SS)	21. Nitrobenzene	38. 2,4,5-Trichlorophenol	56. 2,3,4,6-Tetrachlorophenol	70. Anthracene	89. Benzo[a]pyrene
5. Phenol-d6 (SS)	22. Isophorone	39. 2-Fluorobiphenyl (SS)	57. Diethyl phthalate	71. Carbazole	90. Perylene-d12 (IS)
6. Phenol	23. 2-Nitrophenol	40. 2-Chloronaphthalene	58. 4-Chlorophenyl phenyl ether	72. di-n-Butyl phthalate	91. Indeno[1,2,3-cd]pyrene
7. Aniline	24. 2,4-Dimethylphenol	41. 2-Nitroaniline	59. Fluorene	73. Fluoranthene	92. Dibenzo[a,h]anthracene
8. Bis(2-chloroethyl) ether	25. Benzoic acid	42. 1,4-Dinitrobenzene	60. 4-Nitroaniline	74. Benzidine	93. Benzo[ghi]perylene
9. 2-Chlorophenol	26. Bis(2-chloroethoxy)methane	43. Dimethyl phthalate	61. 4,6-Dinitro-2-methylphenol	75. Pyrene-d10 (SS)	
10. 1,3-Dichlorobenzene	27. 2,4-Dichlorophenol	44. 1,3-Dinitrobenzene	62. n-Nitroso-diphenylamine (diphenylamine)	76. Pyrene	
11. 1,4-Dichlorobenzene-d4 (IS)	28. 1,2,4-Trichlorobenzene	45. 2,6-Dinitrotoluene	63. 1,2-Diphenylhydrazine (as azobenzene)	77. p-Terphenyl-d14 (SS)	
12. 1,4-Dichlorobenzene	29. Naphthalene-d8 (IS)	46. 1,2-Dinitrobenzene	64. 2,4,6-Tribromophenol (SS)	78. 3,3'-Dimethylbenzidine	
13. Benzyl alcohol	30. Naphthalene	47. Acenaphthylene	65. 4-Bromophenyl phenyl ether	79. Butyl benzyl phthalate	
14. 1,2-Dichlorobenzene	31. 4-Chloroaniline	48. 3-Nitroaniline		80. Bis(2-ethylhexyl) adipate	
15. 2-Methylphenol	32. Hexachlorobutadiene	49. Acenaphthene-d10 (IS)		81. 3,3'-Dichlorobenzidine	
16. Bis(2-chloroisopropyl) ether	33. 4-Chloro-3-methylphenol	50. Acenaphthene		82. Benzo[a]anthracene	
		51. 2,4-Dinitrophenol		83. Bis(2-ethylhexyl)phthalate	
				84. Chrysene-d12 (IS)	

c = contaminant (toluene)