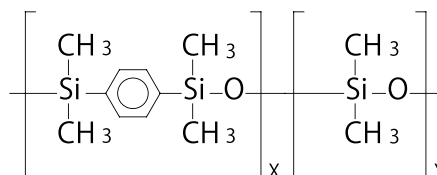


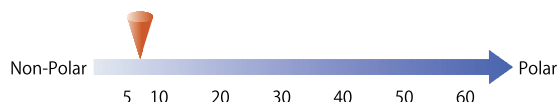
InertCap™ 5MS/Sil

- Phenyl Arylene polymer equivalent to a 5 % Phenyl - 95 % Methylpolysiloxane
- USP Phase G27
- Slightly Polar
- Cross-Linked
- Ultra Low Bleed
- Equivalent : DB-5ms, Rxi-5Sil MS, VF-5ms, SLB-5, BPX-5

Structure

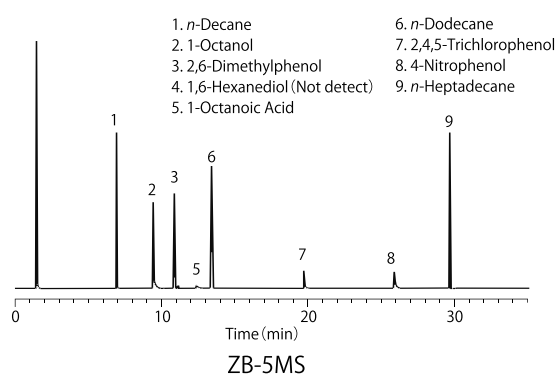
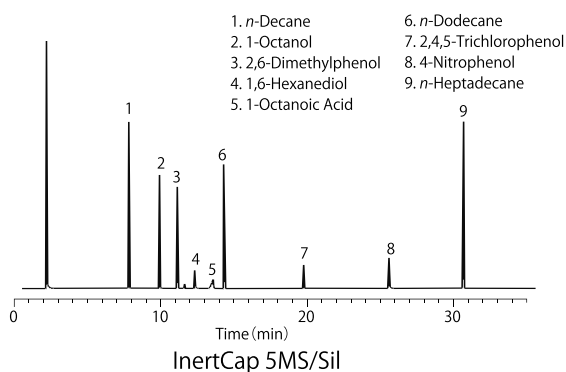


InertCap 5MS/Sil is a low polarity column incorporating 5 % phenyl and 95 % methylpolysilylene. Designed for GC/MS, InertCap 5MS/Sil realized the higher heat resistance and lower bleeding by arylene technology. In addition to our basic performance and quality inspection, pesticide mixture sample is used for the further rigorous inspection for each lot to guarantee the product reliability.

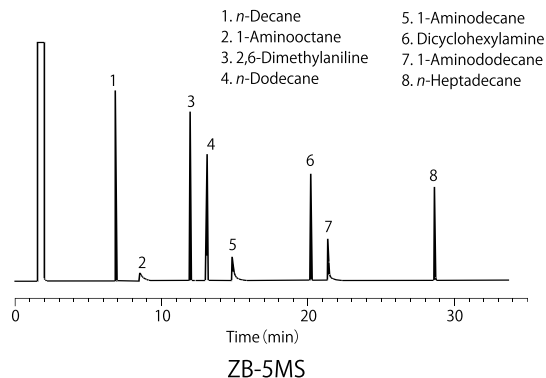
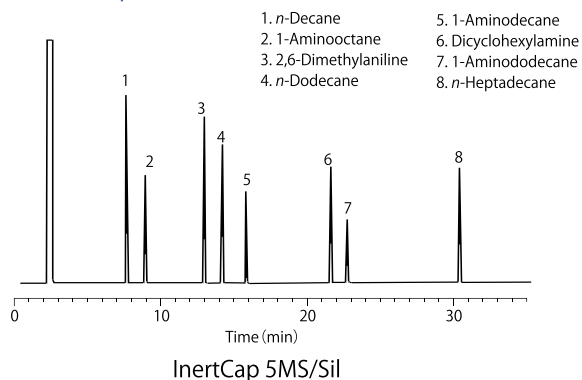


【 Comparison data 】

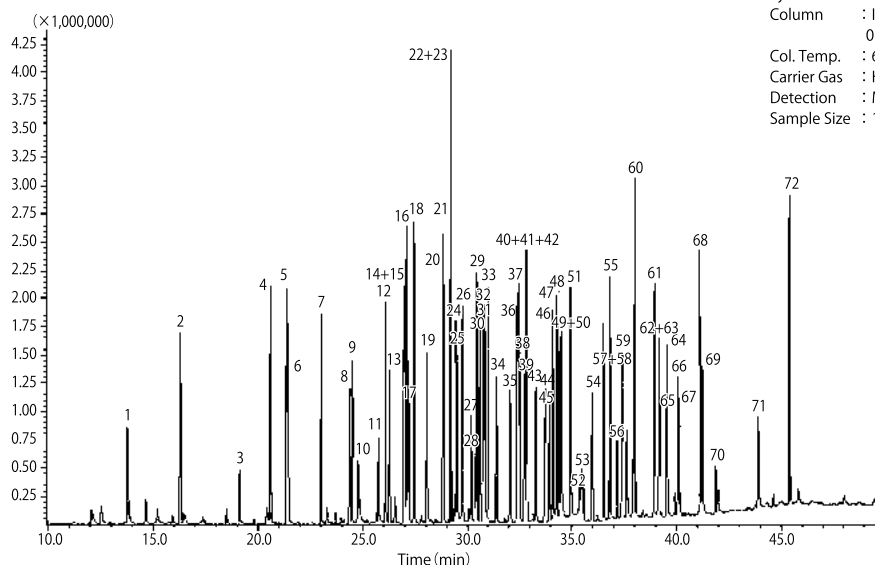
Acidic compounds



Basic compounds



Pesticides



System : GC/MS
 Column : InertCap 5MS/Sil
 0.25 mm I.D. × 30 m df = 0.25 μm
 Col. Temp. : 60 °C (1 min hold) – 5 °C/min – 280 °C
 Carrier Gas : He 35 cm/sec.
 Detection : MS
 Sample Size : 1 μL

1. dichlorvos (DDVP)	12. simazine	23. tolclophosmethyl	34. fthalide	45. butamifos	56. chlornitrofen	67. bifenox
2. dichlobenil	13. atrazine	24. simetryn	35. pendimethalin	46. napropamide	57. propiconazole	68. pyriproxyfen
3. etridiazole	14. propyzamide	25. metalaxyl	36. dimethametryn	47. flutranil	58. edifenphos	69. mefenacet
4. chloroneb	15. pyroquilon	26. dithiopyr	37. isofenphos	48. pretilachlor	59. endosulfan sulfate	70. benfuracarb
5. Isoproc carb	16. diazinon	27. fenitrothion	38. methyl dymron	49. isoprothiolane	60. thenylchlor	71. cafenstrole
6. molinate	17. chlorothalonil	28. probenazole	39. phenothoate	50. tricyclazole	61. pyributicarb	72. ethofenprox
7. fenobucarb	18. disulfoton	29. esprocarb	40. procymidone	51. buprofezin	62. pyridaphenthion	
8. trifluralin	19. iprobenfos	30. malathion	41. captan	52. isoxathion	63. iprodione	
9. benfluralin	20. terbucarb	31. chlorpyrifos	42. dimepiperate	53. carpropamid	64. EPN	
10. pencycuron	21. bromobutide	32. benthicarb	43. methidathion	54. β-Endosulfan	65. piperophos	
11. dimethoate	22. alachlor	33. fenithion	44. α-Endosulfan	55. mepronil	66. anilofos	

【InertCap™ 5MS/Sil】

ID (mm)	Length (m)	Thickness (μm)	Max. Temperature (°C)	Cat.No.
0.18	20	0.18	iso.325-prog.350	1010-15031
0.25	15	0.10	iso.325-prog.350	1010-15120
		0.25		1010-15122
		0.50		1010-15124
	30	0.10	iso.325-prog.350	1010-15140
		0.25		1010-15142
		0.50		1010-15144
0.32	15	0.10	iso.325-prog.350	1010-15145
		0.25		1010-15160
		0.50		1010-15162
	30	0.10	iso.325-prog.350	1010-15220
		0.25		1010-15222
		0.50		1010-15224
60	0.10	iso.325-prog.350	1010-15240	
	0.25		1010-15242	
	0.50		1010-15244	
0.25	30	1.00	iso.325-prog.350	1010-15245
		0.10		1010-15260
0.32	60	0.25	iso.325-prog.350	1010-15262

【InertCap™ 5MS/Sil ProGuard (Built-in Guard Column)】

ID (mm)	Length (m)	Thickness (μm)	Guard Column (m)	Max. Temperature (°C)	Cat.No.
0.25	30	0.25	2	iso.325-prog.350	1010-15172
			5		1010-15173
			10		1010-15174

【InertCap™ 5MS/Sil T.L. (Built-in Transfer Line)】

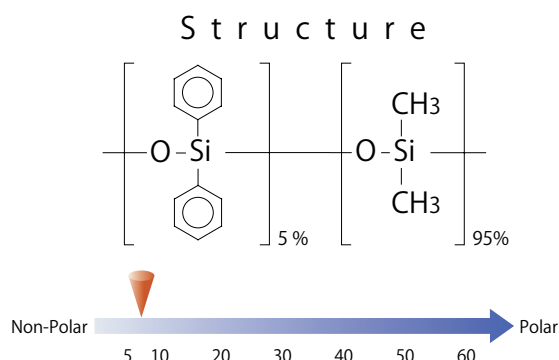
ID (mm)	Length (m)	Thickness (μm)	Transfer Line (m)	Max. Temperature (°C)	Cat.No.
0.25	30	0.25	2	iso.325-prog.350	1010-15192

※ See page 32 for more information about ProGuard and T.L.

InertCap™ 5MS/NP

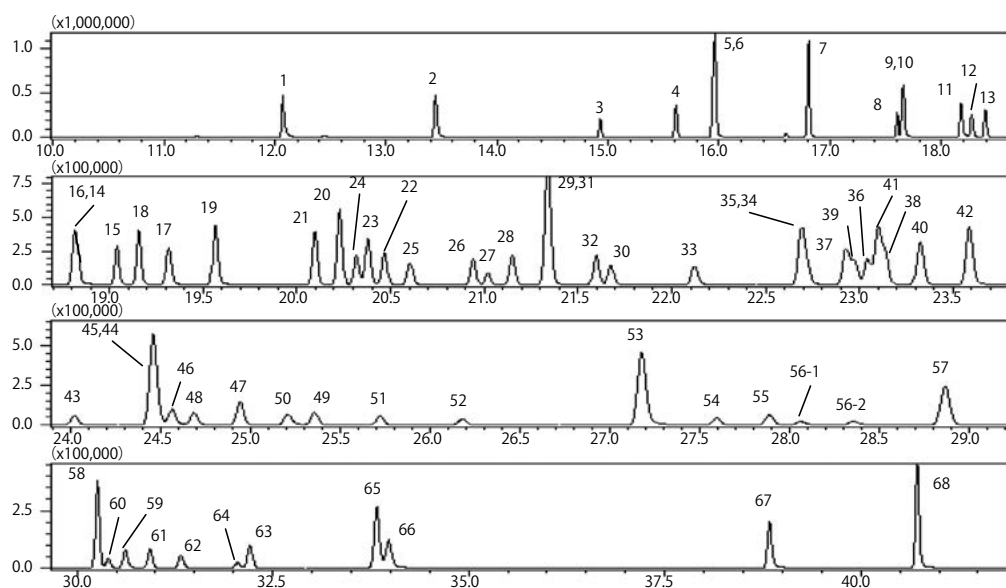
- 5 % Phenyl - 95 % Methylpolysiloxane
- USP Phase G27
- Slightly Polar
- Cross-Linked
- Ultra Low Bleed
- Equivalent : HP-5ms, Rxi-5ms, Equity-5, SPB-5

InertCap 5MS/NP is a low polarity column incorporating 5 % phenyl and 95 % methylpolysiloxane. Designed as a column for GC/MS, InertCap 5MS/NP realizes the world highest inertness and lowest bleeding.



68 Pesticides

System : GC/MS
 Column : InertCap 5MS/NP 0.25 mm I.D. × 30 m df = 0.25 μm
 Col. Temp. : 50 °C (3 min hold) - 10 °C/min - 200 °C - 3 °C/min - 230 °C (5 min hold) - 5 °C/min - 300 °C (8 min hold)
 Injection : Splitless 2 min
 Detection : MS SIM
 Sample Size : 1 μg/mL 1 μL



- | | | | | | | |
|----------------|---------------------|----------------------|-------------------|--------------------|----------------------|---------------------|
| 1. DDVP | 11. Dimethoate | 21. Bromobutide | 31. Benthocarb | 41. Dimepiperate | 51. Isoxathion | 59. Pyridaphenthion |
| 2. Dichlobenil | 12. Simazine | 22. Alachlor | 32. Fenthion | 42. Methidathion | 52. Endosulfan β | 60. Iprodione |
| 3. Etridiazole | 13. Atrazine | 23. Tolclofos-methyl | 33. Fthalide | 43. Endosulfan α | 53. Mepronil | 61. EPN |
| 4. Chloroneb | 14. Propyzamide | 24. Simetryn | 34. Pendimethalin | 44. Butamifos | 54. CNP | 62. Piperophos |
| 5. Isoprocarb | 15. Diazinon | 25. Metalaxyl | 35. Dimethametryn | 45. Napropamide | 55. Edifenphos | 63. Anilofos |
| 6. Molinate | 16. Pyroquilon | 26. Dithiopyr | 36. Isophenphos | 46. Flutolanil | 56-1. Propiconazole1 | 64. Bifenox |
| 7. Fenobucarb | 17. Chlorothalonil | 27. Fenitrothion | 37. Methyl dymron | 47. Pretiochlor | 56-2. Propiconazole2 | 65. Pyriproxyfen |
| 8. Trifluralin | 18. Ethylthiomethon | 28. Esprocarb | 38. Phenthoate | 48. Isoprothiolane | 57. Thenylchlor | 66. Mefenacet |
| 9. Benfluralin | 19. Iprobenfos | 29. Malathion | 39. Captan | 49. Buprofezin | 58. Pyributicarb | 67. Cafenstrole |
| 10. Pencycuron | 20. Terbutcarb | 30. Chlorpyrifos | 40. Procydione | 50. CNP-amino | | 68. Ethofenprox |

InertCap™ 5MS/NP

ID (mm)	Length (m)	Thickness (μm)	Max. Temperature (°C)	Cat.No.
0.25	30	0.25	iso.325-prog.350	1010-18642
0.32	30	0.25	iso.325-prog.350	1010-18742

InertCap™ 5MS/NP ProGuard (Built-in Guard Column)

ID (mm)	Length (m)	Thickness (μm)	Guard Column (m)	Max. Temperature (°C)	Cat.No.
0.25	30	0.25	2	iso.325-prog.350	1010-18941
			5		1010-18942
			10		1010-18943

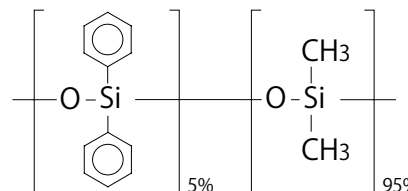
※ See page 32 for more information about ProGuard.

InertCap™ 5

- 5 % Phenyl - 95 % Methylpolysiloxane
- USP Phase G27
- Slightly Polar
- Cross-Linked
- Equivalent : DB-5, HP-5, Rtx-5, CP-Sil 8CB, SPB-5

InertCap 5 is a low polarity column incorporating 5 % phenyl and 95 % methylpolysiloxane. InertCap 5 is an optimal first choice column for a variety of general analyses such as pesticides and volatile compounds etc.

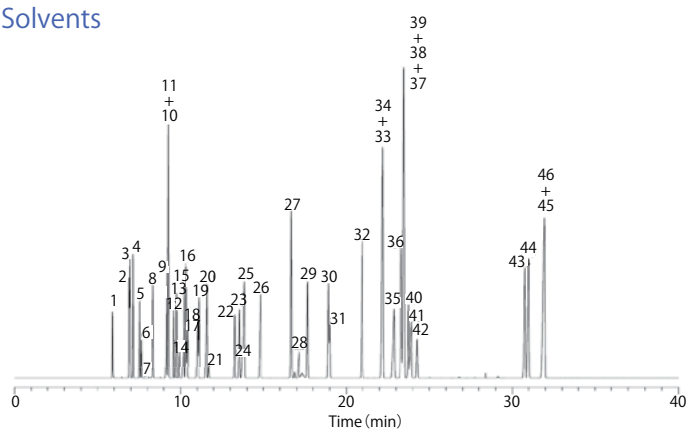
Structure



Non-Polar Polar

5 10 20 30 40 50 60

Solvents



- | | | | | |
|---------------------------------------|--------------------------------------|------------------------------------|--------------------------|-------------------------------|
| 1. Methanol | 11. <i>n</i> -Hexane | 21. Carbon tetrachloride | 31. Tetrachloroethylene | 41. Butyl cellosolve |
| 2. Acetone | 12. <i>cis</i> -1,2-Dichloroethylene | 22. Trichloroethylene | 32. Chlorobenzene | 42. 1,1,2,2-Tetrachloroethane |
| 3. <i>i</i> -Propanol | 13. Ethyl acetate | 23. 1,4-Dioxane | 33. <i>m</i> -Xylene | 43. <i>o</i> -Dichlorobenzene |
| 4. Ethyl ether | 14. Chloroform | 24. Ethyl cellosolve | 34. <i>p</i> -Xylene | 44. <i>o</i> -Cresol |
| 5. Methyl acetate | 15. <i>i</i> -Butanol | 25. <i>n</i> -Propyl acetate | 35. Cyclohexanol | 45. <i>m</i> -Cresol |
| 6. Dichloromethane | 16. Tetrahydrofuran | 26. <i>i</i> -Amyl alcohol | 36. Styrene | 46. <i>p</i> -Cresol |
| 7. Carbon disulfide | 17. Methyl cellosolve | 27. Toluene | 37. Cyclohexanone | |
| 8. <i>trans</i> -1,2-Dichloroethylene | 18. 1,1,1-Trichloroethane | 28. <i>N,N</i> -Dimethyl formamide | 38. 1-Methylcyclohexanol | |
| 9. Methyl ethyl ketone | 19. 1,2-Dichloroethane | 29. Methyl- <i>n</i> -butyl ketone | 39. <i>o</i> -Xylene | |
| 10. 2-Butanol | 20. <i>n</i> -Butanol | 30. <i>n</i> -Butyl acetate | 40. Cellosolve acetate | |

System : GC/FID
 Column : InertCap 5
 0.25 mm I.D. × 60 m df = 0.40 μm
 Col. Temp. : 40 °C (5 min hold) - 4 °C/min - 230 °C (5 min hold)
 Carrier Gas : He 130 kPa
 Injection : Split flow 100 mL/min
 250 °C
 Detection : FID Range 10¹¹
 250 °C
 Sample Size : Mixed evenly 1 μL

【InertCap™ 5】

ID (mm)	Length (m)	Thickness (μm)	Max. Temperature (°C)	Cat.No.	
0.18	15	0.18	iso.325-prog.350	1010-18021	
		0.28		1010-18022	
	20	0.18		1010-18031	
		0.28		1010-18032	
0.25	15	0.25	iso.325-prog.350	1010-18122	
		0.40		1010-18123	
		0.50		1010-18124	
	30	0.10		iso.325-prog.350	1010-18140
		0.25			1010-18142
		0.40			1010-18143
		0.50			1010-18144
		1.00			1010-18145
		1.50			1010-18146
	60	0.25		iso.325-prog.350	1010-18162
		0.40			1010-18163
		0.50			1010-18164
1.00		iso.300-prog.320	1010-18165		
			1.50	1010-18166	

【InertCap™ 5 ProGuard (Built-in Guard Column)】

ID (mm)	Length (m)	Thickness (μm)	Guard Column (m)	Max. Temperature (°C)	Cat.No.
0.25	30	0.25	2	iso.325-prog.350	1010-18172
			5		1010-18173
			10		1010-18174

※See page 32 for more information about ProGuard.

ID (mm)	Length (m)	Thickness (μm)	Max. Temperature (°C)	Cat.No.	
0.32	15	0.25	iso.325-prog.350	1010-18222	
		0.40		1010-18223	
	30	0.25		1010-18242	
		0.40		1010-18243	
		0.50		1010-18244	
		1.00		iso.300-prog.320	1010-18245
0.53	15	0.25	iso.325-prog.350	1010-18262	
		0.40		1010-18263	
		0.50		1010-18264	
	30	1.00		iso.300-prog.320	1010-18425
		1.50			1010-18426
		2.00			1010-18427
60	15	3.00	iso.260-prog.280	1010-18428	
		5.00		1010-18429	
		1.00		1010-18445	
	30	1.50		iso.300-prog.320	1010-18446
		2.00		1010-18447	
		3.00		1010-18448	
60	5.00	iso.260-prog.280	1010-18449		
	2.00	iso.300-prog.320	1010-18467		