

Rxi®-17 Columns (fused silica)

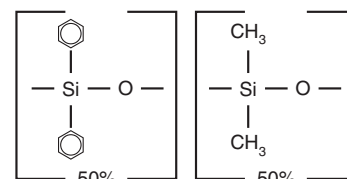
(midpolarity phase; Crossbond® diphenyl dimethyl polysiloxane)

- General-purpose columns for pesticides, herbicides, rosin acids, phthalate esters, triglycerides, sterols.
- Temperature range: 40 °C to 320 °C.

ID	df	temp. limits	15-Meter cat.#	30-Meter cat.#
0.25 mm	0.25 µm	40 to 280/320 °C	13520	13523
	0.50 µm	40 to 280/320 °C		13538
	1.00 µm	40 to 280/320 °C		13553
0.32 mm	0.25 µm	40 to 280/320 °C		13524
	0.50 µm	40 to 280/320 °C		13539
	1.00 µm	40 to 280/320 °C		13554
0.53 mm	0.25 µm	40 to 280/320 °C		13525
	0.50 µm	40 to 280/320 °C		13540
	0.83 µm	40 to 280/320 °C		13569
	1.00 µm	40 to 280/320 °C	13552	13555
	1.50 µm	40 to 280/320 °C		13570

ID	df	temp. limits	20-Meter cat.#
0.18 mm	0.18 µm	40 to 280/320 °C	13502

Rxi®-17 Structure



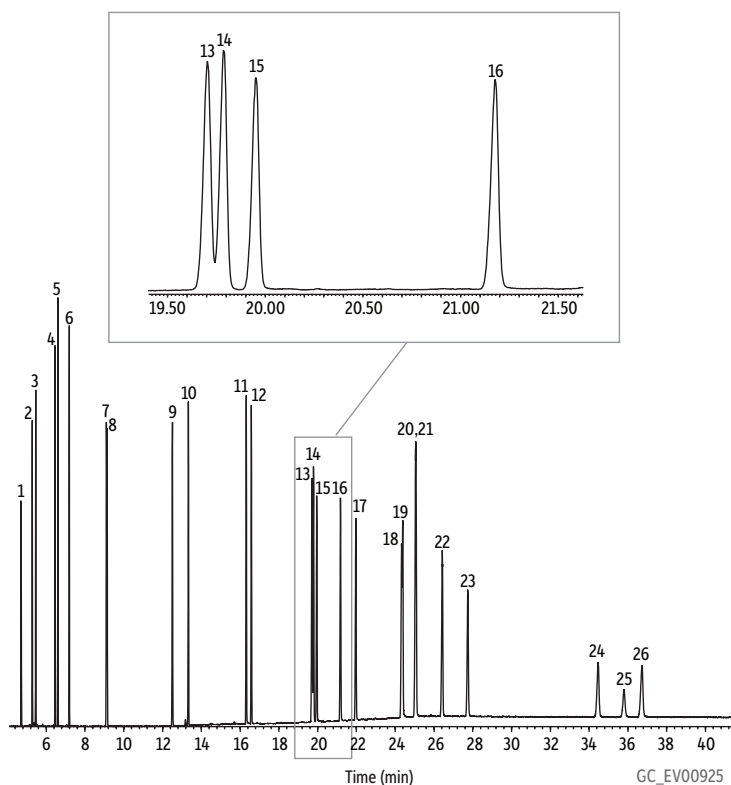
Similar to: (50%-phenyl)-methylpolysiloxane

similar phases

HP-17, DB-17, DB-17ht, DB-608, ZB-50

Polycyclic Aromatic Hydrocarbons on Rxi®-17 column

Completely resolve benzo(j)fluoranthene.



Column Rxi®-17, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13523)
Sample SV Calibration Mix #5 / 610 PAH Mix (cat.# 31011)
 PAH Supplement Mix for Method 8100 (cat.# 31857)
 1-methylnaphthalene (cat.# 31283)
 2-methylnaphthalene (cat.# 31285)
 20 µg/mL each component

Conc.:
Injection
 Inj. Vol.: 1.0 µL pulsed splitless (hold 0.2 min)
 Liner: Drilled Uniliner® (hole near top) (cat.# 21055)
 Inj. Temp.: 300 °C
 Pulse Pressure: 20 psi (137.9 kPa)
 Pulse Time: 0.3 min
 Purge Flow: 40 mL/min

Oven
 Oven Temp.: 90 °C (hold 1.0 min) to 215 °C at 25 °C/min (hold 0.5 min)
 to 235 °C at 4 °C/min (hold 0 min) to 280 °C at 15 °C/min
 (hold 0 min) to 320 °C at 4 °C/min (hold 20 min)

Carrier Gas
 Flow Rate: He, constant flow
 1.2 mL/min

Detector
 Mode: MS
 Analyzer Type: Scan
 Quadrupole
 Solvent Delay Time: 4.0 min
 Tune Type: DFTPP
 Ionization Mode: EI
 Scan Range: 50-550 amu
Instrument HP6890 GC & 5973 MSD

Peaks	tR (min)	9. Fluoranthene	12.50	18. Dibenz(a,h)acridine	24.33
1. Naphthalene	4.70	10. Pyrene	13.33	19. Dibenz[a,j]acridine	24.39
2. 1-Methylnaphthalene	5.28	11. Benz[a]anthracene	16.32	20. Indeno(1,2,3-cd)pyrene	25.04
3. 2-Methylnaphthalene	5.46	12. Chrysene	16.58	21. Dibenz[a,h]anthracene	25.07
4. Acenaphthylene	6.45	13. Benzo[b]fluoranthene	19.70	22. Benzo[ghi]perylene	26.43
5. Acenaphthene	6.60	14. Benzo[k]fluoranthene	19.78	23. 7H-Dibenzo(c,g)carbazole	27.75
6. Fluorene	7.18	15. Benzo(j)fluoranthene	19.95	24. Dibenzo(a,e)pyrene	34.46
7. Phenanthrene	9.10	16. Benzo[a]pyrene	21.17	25. Dibenzo(a,i)pyrene	35.80
8. Anthracene	9.14	17. 3-Methylcholanthrene	21.97	26. Dibenzo(a,h)pyrene	36.73