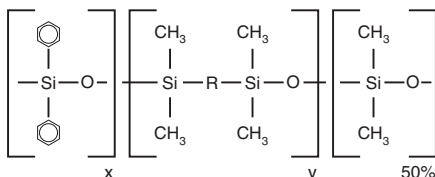


### Rxi®-17Sil MS Structure



Similar to: (50%-phenyl)-methylpolysiloxane

### similar phases

DB-17ms, VF-17ms

### Rxi®-17Sil MS Columns (fused silica)

(midpolarity Crossbond® phase)

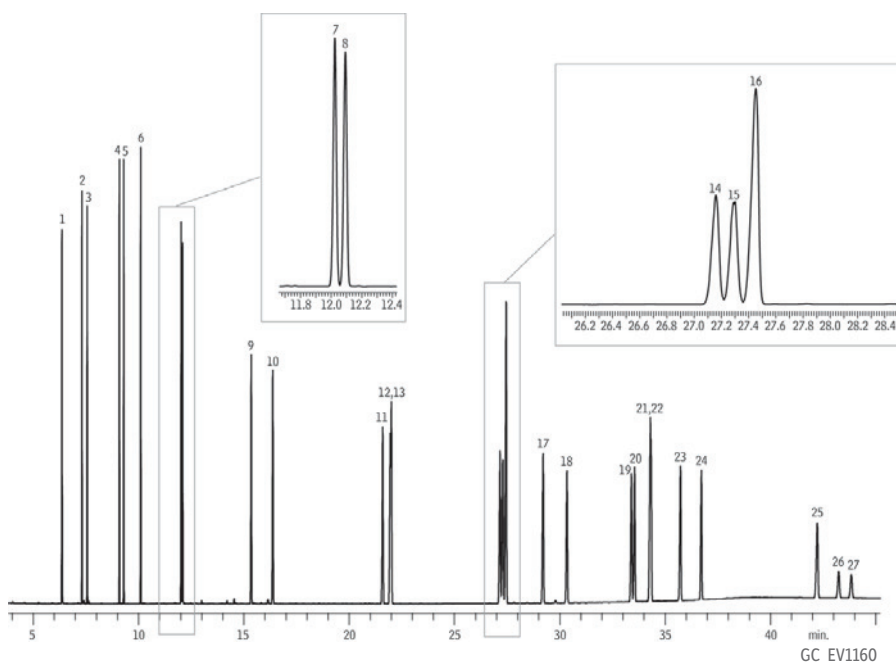
- Excellent inertness and selectivity for active environmental compounds, such as PAHs.
- Low bleed for use with sensitive detectors, such as MS.
- 340/360 °C upper temperature limits.
- Equivalent to USP phase G3.

ID	df	temp. limits*	15-Meter cat.#	30-Meter cat.#	60-Meter cat.#
0.25 mm	0.25 µm	40 to 340/360 °C	14120	14123	14126
0.32 mm	0.25 µm	40 to 340/360 °C	14121	14124	

ID	df	temp. limits	10-Meter cat.#	20-Meter cat.#
0.15 mm	0.15 µm	40 to 340/360 °C	43820	43821
0.18 mm	0.18 µm	40 to 340/360 °C		14102
	0.36 µm	40 to 340/360 °C		14111

\*Maximum temperatures listed are for shorter length columns. Longer columns may have a different maximum temperature.

### Polycyclic Aromatic Hydrocarbons on Rxi®-17Sil MS



Excellent resolution and peak shape for PAHs that cannot be resolved by MS.

#### Peaks

1. Naphthalene
2. 2-Methylnaphthalene
3. 1-Methylnaphthalene
4. Acenaphthylene
5. Acenaphthene
6. Fluorene
7. Phenanthrene
8. Anthracene
9. Fluoranthene
10. Pyrene
11. Benz[a]anthracene
12. Chrysene
13. Triphenylene
14. Benzo[b]fluoranthene
15. Benzo[k]fluoranthene
16. Benzo[j]fluoranthene
17. Benzo[a]pyrene
18. 3-Methylcholanthrene
19. Dibenz[a,h]acridine
20. Dibenz[a,j]acridine
21. Indeno[1,2,3-cd]pyrene
22. Dibenz[a,h]anthracene
23. Benzo[ghi]perylene
24. 7H-Dibenzo[c,g]carbazole
25. Dibenzo[a,e]pyrene
26. Dibenzo[a,i]pyrene
27. Dibenzo[a,h]pyrene

**Column** Rxi®-17Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 14123)  
**Sample** PAH supplement mix for method 8100 (cat.# 31857)  
 EPA Method 8310 PAH mixture (cat.# 31841)  
 Triphenylene (custom)

**Diluent:** Dichloromethane  
**Conc.:** 10 ppm

**Injection**  
**Inj. Vol.:** 0.5 µL splitless (hold 1.75 min)  
**Liner:** Auto SYS XL PSS split/splitless w/wool (cat.# 21718)  
**Inj. Temp.:** 320 °C  
**Purge Flow:** 75 mL/min

**Oven**  
**Oven Temp.:** 65 °C (hold 0.5 min) to 220 °C at 15 °C/min to 330 °C at 4 °C/min (hold 15 min)  
**Carrier Gas** He, constant flow  
**Flow Rate:** 2.0 mL/min  
**Detector** FID @ 320 °C  
**Instrument** PE Clarus 600 GC  
**Acknowledgement** Instrument provided by PerkinElmer