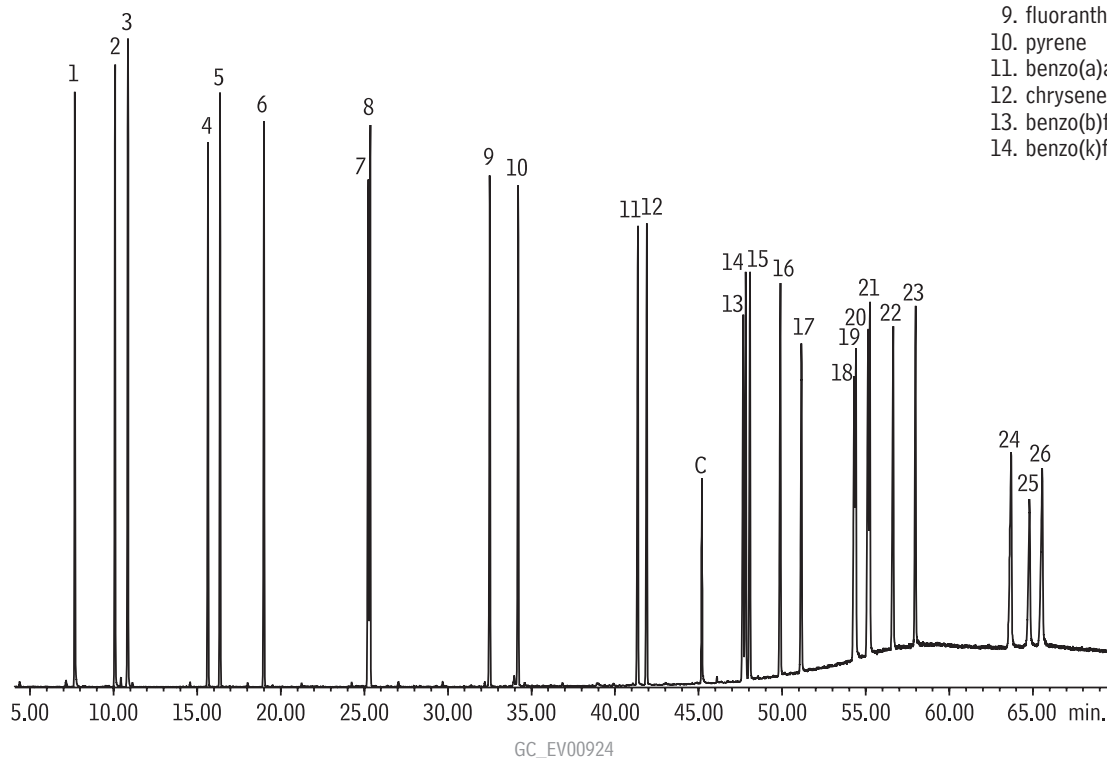


# Polycyclic Aromatic Hydrocarbons

## Rxi®-17

- maximum resolution
- benzo(j)fluoranthene resolved

**Rxi® Technology!**



Peak List	Ret. Time (min.)	Peak List	Ret. Time (min.)
1. naphthalene	7.70	15. benzo(j)fluoranthene	48.07
2. 1-methylnaphthalene	10.08	16. benzo(a)pyrene	49.89
3. 2-methylnaphthalene	10.85	17. 3-methylcholanthrene	51.15
4. acenaphthylene	15.64	18. dibenzo(a,h)acridine	54.30
5. acenaphthene	16.36	19. dibenzo(a,i)acridine	54.41
6. fluorene	19.00	20. indeno(1,2,3-cd)pyrene	55.13
7. phenanthrene	25.24	21. dibenzo(a,h)anthracene	55.24
8. anthracene	25.36	22. benzo(ghi)perylene	56.64
9. fluoranthene	32.50	23. 7H-dibenzo(c,g)carbazole	57.98
10. pyrene	34.21	24. dibenzo(a,e)pyrene	63.69
11. benzo(a)anthracene	41.37	25. dibenzo(a,i)pyrene	64.79
12. chrysene	41.91	26. dibenzo(a,h)pyrene	65.56
13. benzo(b)fluoranthene	47.67		
14. benzo(k)fluoranthene	47.82		

c=contaminant

Column: Rxi®-17, 30m, 0.25mm ID, 0.25µm (cat.# 13523)  
 Sample: PAH mix, 50µg/mL each component:  
 EPA Method 610 Mix (cat.# 31011)  
 PAH Supplement Mix (cat.# 31857)  
 1-methylnaphthalene (cat.# 31283)  
 2-methylnaphthalene (cat.# 31285)

Instrument: Agilent 6890  
 Inj.: 1.0µL pulsed splitless injection (50ng each component on column), 4mm Drilled Uniliner® inlet liner with hole near top (cat.# 21055); pulse: 20psi @ 0.3 min., 40mL/min. @ 0.2 min.

Inj. temp.: 300°C  
 Carrier gas: helium, constant flow  
 Flow rate: 1.2mL/min.  
 Oven temp.: 100°C (hold 0.5 min.) to 320°C @ 4°C/min. (hold 20 min.)

Det.: Agilent 5973 GC/MS  
 Scan range: 50-550amu  
 Solvent delay: 4.0 min.  
 Tune: DFTPP  
 Ionization: EI