

# Polynuclear Aromatic Hydrocarbons

## US EPA Method 610

### Rtx®-440

Column: Rtx®-440 30m, 0.25mm ID, 0.25 $\mu$ m (cat.# 12923)  
Sample: 610 PAH Mix (cat.# 31011) diluted to 20ppm each compound in methylene chloride  
Inj.: 1.0 $\mu$ L splitless (hold 0.4 min.), 4mm splitless liner (cat.# 20772)  
Inj. temp.: 320°C  
Carrier gas: hydrogen, constant flow  
Flow: 3.6mL/min.  
Oven temp.: 40°C (hold 2 min.) to 240°C @ 30°C/min., to 320°C @ 8°C/min. (hold 5 min.)  
Det.: FID @ 320°C

1. naphthalene
2. acenaphthylene
3. acenaphthene
4. fluorene
5. phenanthrene
6. anthracene
7. fluoranthene
8. pyrene
9. benzo(a)anthracene
10. chrysene
11. benzo(b)fluoranthene
12. benzo(k)fluoranthene
13. benzo(a)pyrene
14. indeno(1,2,3-cd)pyrene
15. dibenzo(a,h)anthracene
16. benzo(ghi)perylene

