



# HICHROM

Chromatography Columns and Supplies

## LC COLUMNS Hichrom PAH2

Catalogue 9

### Hichrom Limited

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## Hichrom PAH2

- Optimised for EPA Method 610
- Excellent separation of 16 PAHs
- Wide range of column dimensions

### Hichrom PAH2 Phase

Particle Size ( $\mu\text{m}$ )	5
Pore Size ( $\text{\AA}$ )	120
Endcapped	Yes



Polynuclear aromatic hydrocarbons (PAHs) are important environmental pollutants due to their ubiquitous presence and their carcinogenicity. They are produced by the incomplete combustion and pyrolysis of fossil fuels and other organic material eg. coal-tar pitch. These compounds are routinely analysed in industrial waste water, drinking water and ground water, solid waste, air, particulate matter and food samples.

Due to government legislation, environmental laboratories are required to perform an increasing number of PAH analyses, from a variety of matrices. Many countries have their own government legislation. In England and Wales, all water intended for human consumption must be screened for five indicator PAHs (compounds 11, 12, 13, 15 and 16 shown below). The US Environmental Protection Agency (EPA) has designated 16 priority pollutant PAHs that are indicative of PAH contamination or pollution. Methods based on these compounds, such as EPA 610 for PAH analysis in waste water and EPA 550 (drinking water), are universally accepted.

Hichrom PAH2 is based on an alkyl bonded silica material with a high carbon loading, designed specifically for the analysis of PAHs. Figure 1 shows the separation of 16 priority pollutants in just over 30 minutes.

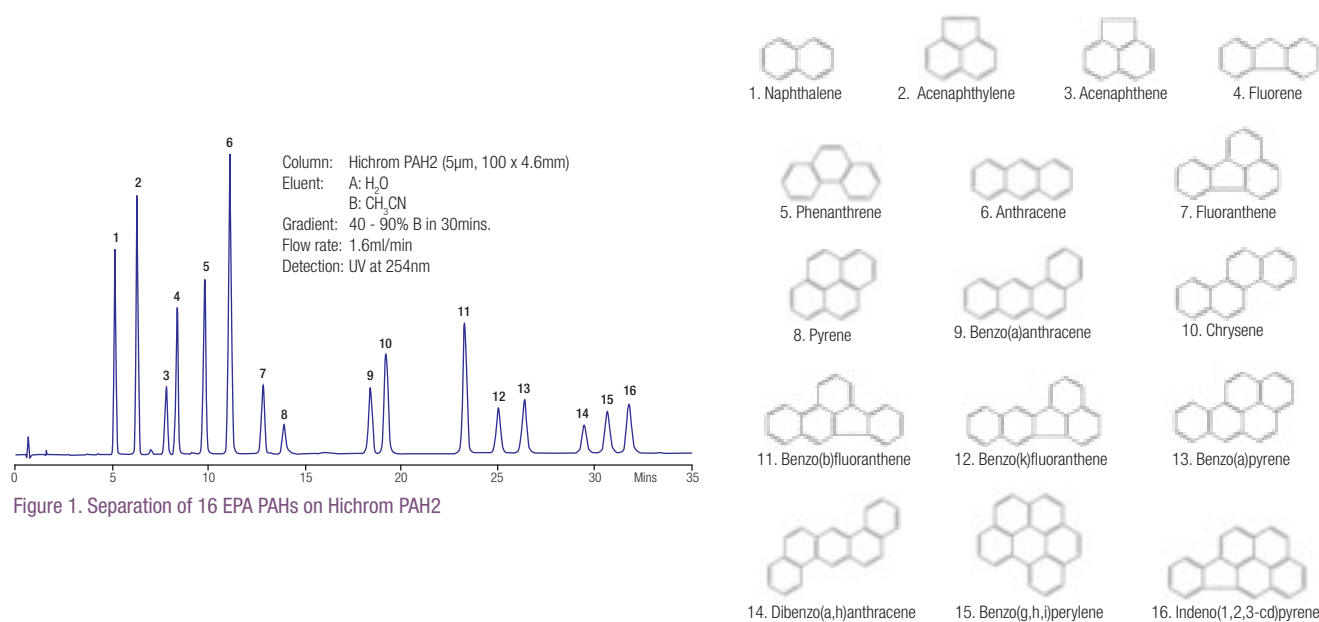


Figure 1. Separation of 16 EPA PAHs on Hichrom PAH2

### Ordering Information – Hichrom PAH2

Column i.d.	Column Length <sup>1</sup> (mm)			Guard Cartridges <sup>2</sup> (5/pk) <sup>3</sup>
	100	150	250	
2.1	HI-5PAH2-100AM	HI-5PAH2-150AM	HI-5PAH2-250AM	HI-5PAH2-10CM5
3.2	HI-5PAH2-100AS	HI-5PAH2-150AS	HI-5PAH2-250AS	HI-5PAH2-10C5
4.6	HI-5PAH2-100A	HI-5PAH2-150A	HI-5PAH2-250A	HI-5PAH2-10C5

<sup>1</sup> Other column dimensions available – please enquire

<sup>2</sup> Use with free-standing holder HI-161 and column coupler HI-081

– see p. 24

<sup>3</sup> Starter kits

also available – see p. 25