

Rt-LC50 / Rt-PAH

Low Bleed Capillary GC Columns

Rt-LC50

- Liquid crystalline phase designed to separate isomeric forms of organic compounds—including PAHs, dioxin, furan, or PCB congeners.

Rt-PAH

- Liquid crystalline phase selectivity tuned for analysis of US EPA methods 610 and 8100 PAHs.



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Chromatography Products

www.restek.com 800-356-1688 • 814-353-1300

HROMalytic +61(0)3 9762 2034
ECHnology Pty Ltd
Website NEW : www.chromalytic.com.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA

Australian Distributors
Importers & Manufacturers
www.chromtech.net.au

Low Bleed Capillary GC Columns

Rt-LC50 (polar, dimethyl (50% liquid crystal) polysiloxane)

- Low bleed at 270°C.
- Temperature range: 100°C to 270°C.

The unique liquid crystalline Rt-LC50 stationary phase resolves compounds of similar structure and boiling point. It has proven effective for resolving many polycyclic aromatic hydrocarbons; other applications include dioxin, furan, or PCB congeners.

Rt-LC50 Columns (fused silica)

ID	df (μm)	temp. limits	10-Meter	20-Meter
0.10mm	0.10	100°C to 270°C	19736	—
0.18mm	0.10	100°C to 270°C	19735	—
0.25mm	0.10	100°C to 270°C	—	19734

Rt-PAH (polar, proprietary liquid crystalline phase)

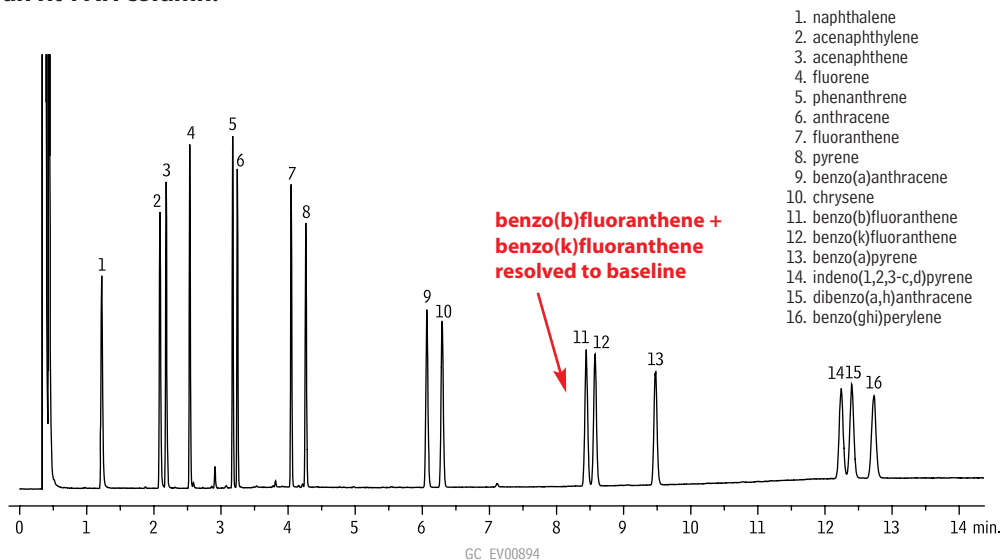
- Low bleed at 285°C.
- Temperature range: 80°C to 285°C.

Specially designed for analyses of polycyclic aromatic hydrocarbons listed in US EPA methods 610 and 8100, Rt-PAH columns resolve problematic benzo(b)fluoranthene and benzo(k)fluoranthene to the baseline.

Rt-PAH Columns (fused silica)

ID	df (μm)	temp. limits	12-Meter
0.25mm	0.15	80°C to 285°C	19733

16 regulated polycyclic aromatic hydrocarbons separated in less than 13 minutes on an Rt-PAH column.



Column: Rt-PAH 12m, 0.25mm ID, 0.15μm (cat.# 19733)
Sample: 20ng/μL each component in dichloromethane
Inj.: 1.0μL split (split ratio 10:1)
Inj. temp.: 225°C
Carrier gas: helium, 110kPa column head pressure
Oven temp.: 80°C to 220°C @ 40°C/min., to 285°C @ 8°C/min. (hold 5 min.)
Detector: FID @ 290°C

Chromatogram courtesy of J&K Scientific.

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