

OPTIMA® 1701 14 % cyanopropyl-phenyl – 86 % dimethylpolysiloxane · USP G46

★ Key features

- Midpolar phase, special selectivity due to high cyanopropyl content
- Structure see page 315

✓ Recommended application

- Reference column for structure identification, e.g., in combination with OPTIMA® 5
- Film thickness $\geq 1 \mu\text{m}$ for solvent analysis

✎ Temperature

- T_{max} 280 °C (long-term temperature), T_{max} 300 °C (short-term max. temperature in a temperature program)
- 0.53 mm ID: T_{max} 280 and 300 °C, resp.

Similar phases

- OV-1701, DB-1701, CP-Sil 19 CB, HP-1701, Rtx®-1701, SPB™-1701, 007-1701, BP10, ZB-1701

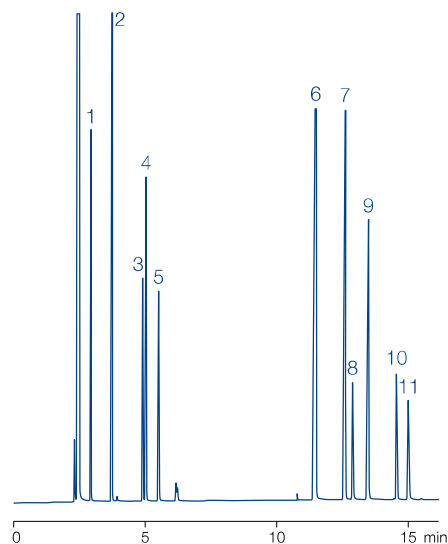
Analysis of aromatic hydrocarbons

MN Appl. No. 200400

Column: OPTIMA® 1701, 25 m x 0.32 mm ID, 0.25 μm film
 Injection: 1 μL , split 1:40
 Carrier gas: 0.6 bar N_2
 Temperature: 60 °C $\rightarrow$ 120 °C, 4 °C/min
 Detector: FID 260 °C

Peaks:

1. Benzene
2. Toluene
3. Ethylbenzene
4. *p*-Xylene
5. *o*-Xylene
6. Phenol
7. 2-Methylphenol
8. 2,6-Dimethylphenol
9. 4-Methylphenol
10. 2,4-Dimethylphenol
11. 2,4,6-Trimethylphenol



OPTIMA® 1701

Length $\rightarrow$ 10 m	15 m	25 m	30 m	50 m	60 m
0.2 mm ID (0.4 mm OD)					
0.20 μm film		726841.25		726841.50	
0.25 mm ID (0.4 mm OD)					
0.25 μm film	726058.10	726058.15	726058.25	726058.30	726058.50
0.50 μm film			726064.30		726064.60
1.00 μm film			726965.30		
0.32 mm ID (0.5 mm OD)					
0.25 μm film	726318.10	726318.15	726318.25	726318.30	726318.50
0.35 μm film			726824.25	726824.30	726824.50
0.50 μm film			726320.25	726320.30	726320.50
1.00 μm film			726929.25	726929.30	726929.50
0.53 mm ID (0.8 mm OD)					
1.00 μm film	726545.10	726545.15	726545.25	726545.30	
2.00 μm film		726735.15	726735.25	726735.30	726735.50

In addition to this standard program we will be happy to supply columns custom-made to your specifications. Information about scope of delivery, special cages and integrated guard columns see additional information for GC columns on page 311.

Further applications can be found online in our application database at ChromaAppDB.mn-net.com