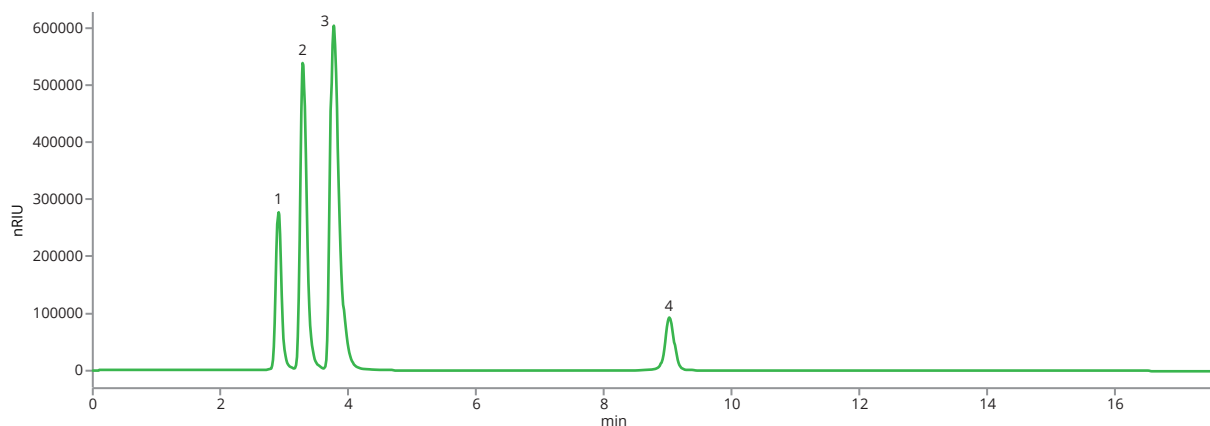
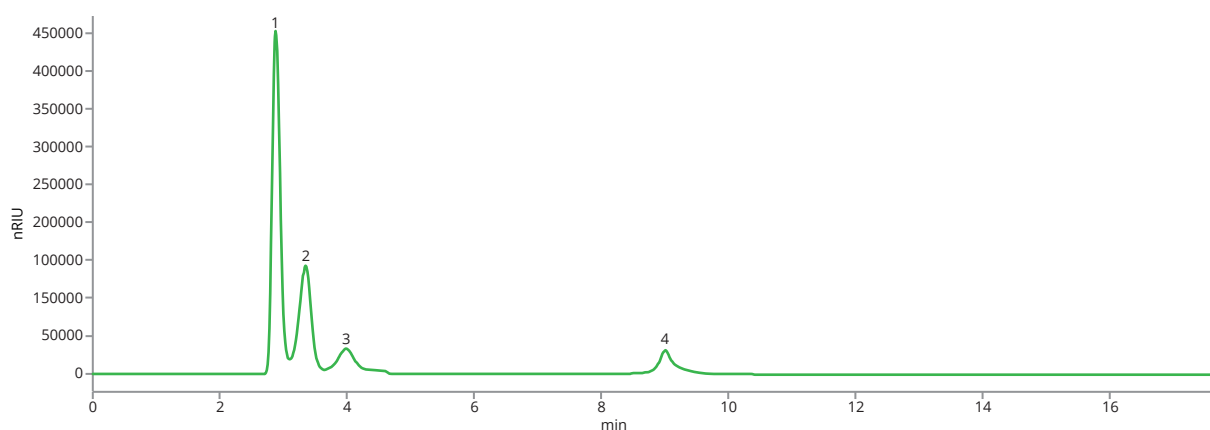


## Determination of aromatic hydrocarbons in diesel fuel

The aromatic hydrocarbons content of diesel fuel is a factor that can affect exhaust emissions and fuel combustion characteristics, as measured by cetane number. This application shows fast and robust method for the determination of monoaromatic, di-aromatic, and polyaromatic hydrocarbon contents in diesel fuels and petroleum distillates boiling in the range from 150 to 400 °C.



*Calibration standard solution on ARION® column*



*Test solution on ARION® column*



## Determination of aromatic hydrocarbons in diesel fuel

|                         |                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Column</b>           | ARION® NH <sub>2</sub> , 5 µm                                                                                                                                                               |
| <b>Dimensions</b>       | 150 mm × 4.6 mm                                                                                                                                                                             |
| <b>Part number</b>      | ARI-5736-LK46                                                                                                                                                                               |
| <b>Mobile phase</b>     | Heptane<br>Isocratic elution                                                                                                                                                                |
| <b>Flow rate</b>        | 0.8 mL/min                                                                                                                                                                                  |
| <b>Temperature</b>      | 30 °C                                                                                                                                                                                       |
| <b>Injection volume</b> | 10 µL                                                                                                                                                                                       |
| <b>Detection</b>        | RID                                                                                                                                                                                         |
| <b>Analytes</b>         | <b>1. Non-aromatic hydrocarbons (NAHs)</b><br><b>2. Mono-aromatic hydrocarbons (MAHs)</b><br><b>3. Di-aromatic hydrocarbons (DAHs)</b><br><b>4. Polycyclic aromatic hydrocarbons (PAHs)</b> |

This application was developed  
in co-operation with ORLEN UniCRE a.s.

