



## Certificate of Analysis

EN12916:2006, IP391/07 System Calibration Standards 1 and 2 (SCS1 and SCS2)

### Aromatic Hydrocarbon Test Method for Diesel and Petro/Biodiesel Analysis

Agilent Part  
Number: 5190-0485

Kit Lot  
Number: 0006556183

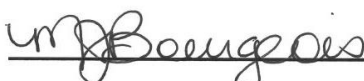
This analytical reference material was manufactured and verified in accordance with an ISO 9001 registered quality system, and the analyte concentrations were verified by an ISO 17025 accredited laboratory. The certified value for each analyte was determined gravimetrically.

| Vial        | Lot #      | Analyte            | CAS#        | Purity | Certified Value     |
|-------------|------------|--------------------|-------------|--------|---------------------|
| 5190-0485-1 | 0006552941 | cyclohexane        | 000110-82-7 | 99+%   | 10.0 ± 0.1 mg/mL    |
|             |            | 1-phenyldodecane   | 000123-01-3 | 98+%   | 1.00 ± 0.01 mg/mL   |
|             |            | o-xylene           | 000095-47-6 | 99+%   | 5.01 ± 0.03 mg/mL   |
|             |            | hexamethylbenzene  | 000087-85-4 | 99+%   | 1.00 ± 0.01 mg/mL   |
|             |            | naphthalene        | 000091-20-3 | 99+%   | 1.00 ± 0.01 mg/mL   |
|             |            | dibenzothiophene   | 000132-65-0 | 99+%   | 0.501 ± 0.003 mg/mL |
|             |            | 9-methylanthracene | 000779-02-2 | 99+%   | 0.501 ± 0.003 mg/mL |
| 5190-0485-2 | 0006552942 | hexadecanoic acid  | 000112-39-0 | 99+%   | 803.5 ± 4.0 µg/mL   |
|             |            | methyl ester       |             |        |                     |
|             |            | octadecanoic acid  | 000112-61-8 | 99+%   | 801.0 ± 4.0 µg/mL   |
|             |            | methyl ester       |             |        |                     |
|             |            | oleic acid         | 000112-62-9 | 99+%   | 801.2 ± 4.0 µg/mL   |
|             |            | methyl ester       |             |        |                     |
|             |            | linoleic acid      | 000112-63-0 | 99+%   | 802.1 ± 4.0 µg/mL   |
|             |            | methyl ester       |             |        |                     |
|             |            | linolenic acid     | 000301-00-8 | 99+%   | 800.8 ± 4.0 µg/mL   |
|             |            | methyl ester       |             |        |                     |
|             |            | chrysene           | 000218-01-9 | 98+%   | 400.2 ± 2.0 µg/mL   |

**Solvent:** n-heptane

Calibrated Class A glassware and clean bottles were used in the manufacture of this standard. Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

**Date of release:** 20 August 2020  
**Date of expiration:** 30 September 2022

  
Monica Bourgeois  
QMS Representative



**Agilent Technologies**

**Instrument Method Conditions:**

Instrument and method conditions used must be fully compliant with the IP391:2006 requirement.

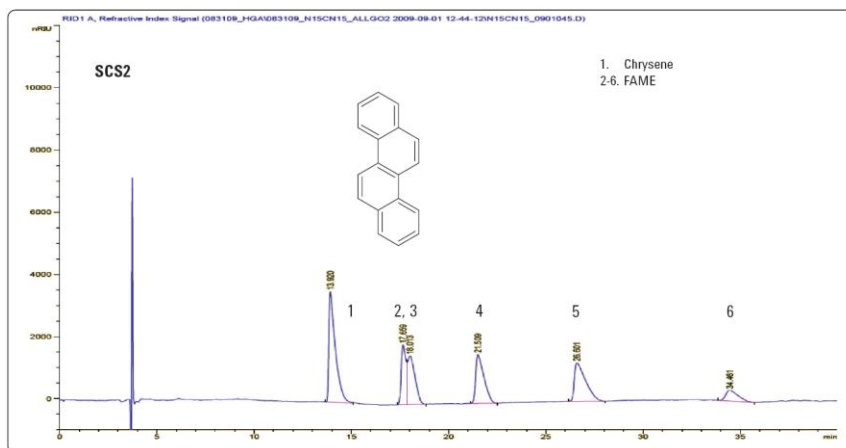
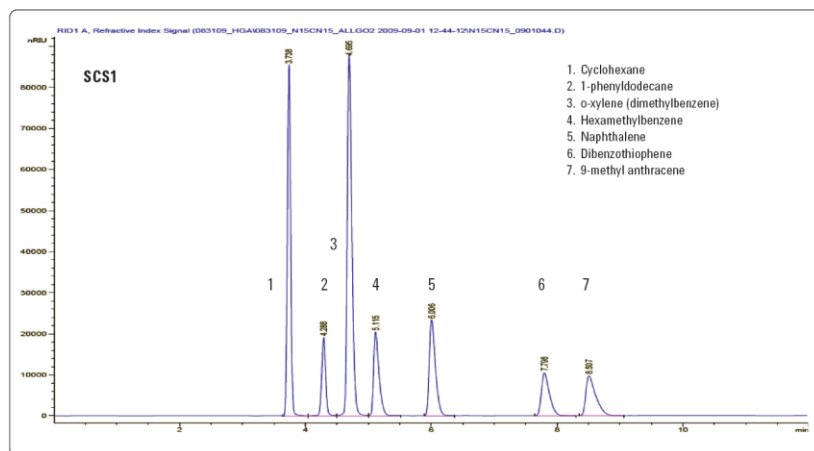
**Mobile phase:** n-heptane at 1ml/min flow rate.

**Column:** ZORBAX NH2 4.6x150mm, 5um, and ZORBAX (RP) SB-CN 4.6x150mm, 5um, in series.

**Column Temperature:** 25°C.

**Detector:** Refractive Index, 35°C.

**Example Signal Traces**



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