



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: 0006732396

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.

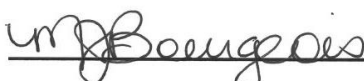
Vial	Lot #	Analyte	CAS#	Purity	Certified Value
5190-0485-1	0006731258	cyclohexane	000110-82-7	99+%	10.0 ± 0.1 mg/mL
		1-phenyldodecane	000123-01-3	98+%	1.00 ± 0.01 mg/mL
		o-xylene	000095-47-6	99+%	5.01 ± 0.03 mg/mL
		hexamethylbenzene	000087-85-4	99+%	1.00 ± 0.01 mg/mL
		naphthalene	000091-20-3	99+%	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	0006731260	hexadecanoic acid	000112-39-0	99+%	802.2 ± 4.0 µg/mL
		methyl ester			
		octadecanoic acid	000112-61-8	99+%	803.6 ± 4.0 µg/mL
		methyl ester			
		oleic acid	000112-62-9	99+%	801.4 ± 4.0 µg/mL
		methyl ester			
		linoleic acid	000112-63-0	99+%	803.0 ± 4.0 µg/mL
		methyl ester			
		linolenic acid	000301-00-8	99+%	803.0 ± 4.0 µg/mL
		methyl ester			
		chrysene	000218-01-9	98+%	400.3 ± 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: 27 February 2023

Date of expiration: 31 March 2025


Monica Bourgeois
QMS Representative



Agilent Technologies

Instrument Method Conditions:

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

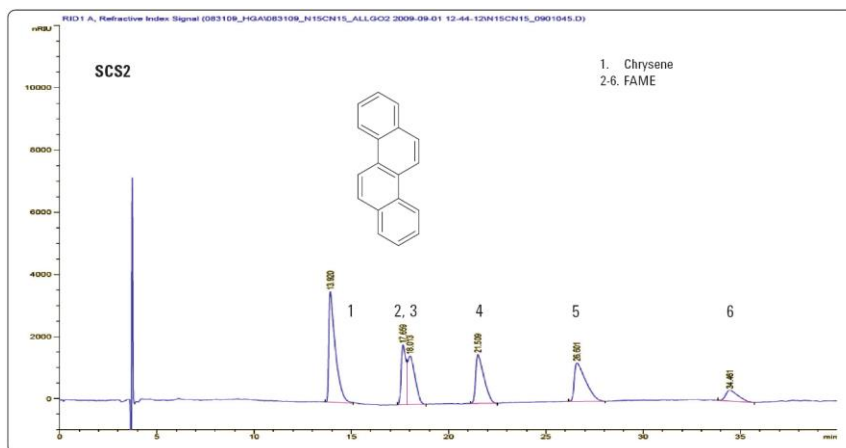
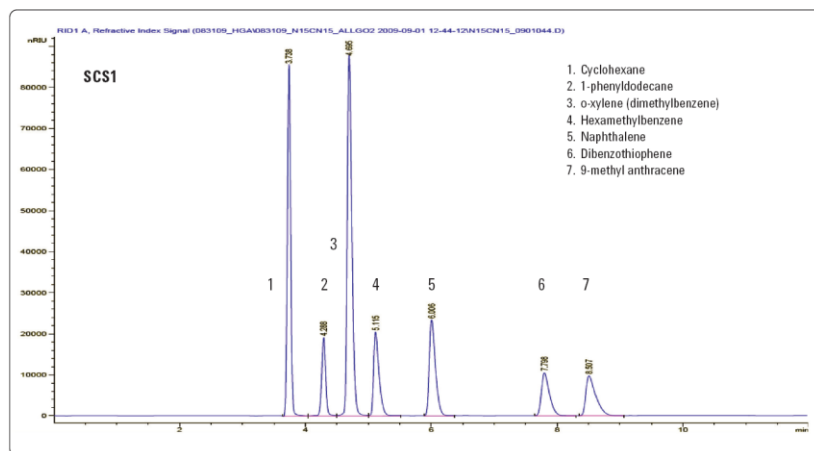
Mobile phase: n-heptane at 1ml/min flow rate.

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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