

Hydrocarbon Standards for EPA Tier 3 Validation

Hydrocarbon Standards for GC Analysis (RM. ISO Guide 34)

ASTM D5769

Part number	Description	Size
DRE-GK09000071IO	Aromatics in Finished Gasoline Calibration Kit with IS ¹	6x1mL
DRE-GK09000078IO ¹	Aromatics in Finished Gasoline Calibration Kit without IS	6x5mL
DRE-GK09000085IO	Aromatics in Finished Gasoline Calibration Kit without IS ¹	6x10mL
DRE-GA09000132IO	Aromatic Quality Control RM for Gasoline with 3 IS	10x2mL
DRE-GA09000133IO	Aromatic Quality Control RM for Gasoline without 3 IS	10x2mL
DRE-GA09000134IO	Aromatic Quality Control RM for Gasoline with 4 IS	10x2mL
DRE-GA09000136	3 Component Internal Standard Mix	1x5mL
DRE-GS09000136	3 Component Internal Standard Mix	5x5mL
DRE-GA09000137	4 Component Internal Standard Mix	1x10mL
DRE-GS09000137	4 Component Internal Standard Mix	5x10mL

ASTM D3606

Part number	Description	Size
DRE-GK09000100IO	Benzene in Gasoline Calibration Kit with IS ¹	7x2mL
DRE-GK09000108IO	Benzene in Gasoline Calibration Kit with 10% EtOH & IS ¹	7x2mL
DRE-GA09000109IO	Check Standard A with 4% 2-butanol	10x2mL
DRE-GA09000110IO	Check Standard B with 4% 2-butanol	10x2mL
DRE-GA09010059	2-butanol IS Neat	1x2mL
DRE-GS09010059	2-butanol IS Neat	5x2mL

ASTM D4815/D5599

Part number	Description	Size
DRE-GK09000122OG	Oxygenates in Gasoline Calibration Kit with IS ¹ (14 components)	11x2mL
DRE-GK09000131OG	Oxygenates in Gasoline Calibration Kit with IS ¹ (8 components)	8x2mL
DRE-GH09000168HE	Low Level Oxygenates Mix, 10 mg/L	10x2mL
DRE-GS09000186	ASTM D4815 Quantitative Peak Mix	5x1mL
DRE-GA09000135	ASTM D4815 Valve Timing Mix	1x1mL
DRE-GS09000135	ASTM D4815 Valve Timing Mix	5x1mL

¹ Individual levels also sold separately



VHG Hydrocarbon Standards for EPA Tier 3 Validation

Effective in 2017, the US EPA set new vehicle emissions standards and a lower maximum for sulfur content in gasoline. LGC can help you meet this challenge. Our portfolio of ISO 17034 hydrocarbon standards for GC analysis includes the spectrum of standards that will help you ensure that your equipment is compliant.

Sulfur by X-Ray Fluorescence							
µg/g	wt%	Light Mineral Oil	Polysulfide Oil	#2 Diesel Fuel	Isooctane	75% Isooctane / 25% Toluene	90% Isooctane / 10% Ethanol
Blank	Blank	VHG-S20MIN-BLK-100	VHG-PS13M-BLK-100	VHG-SDSL-BLK-100	VHG-SISO-BLK-100	VHG-XSISO75TOL25-BLK-100	VHG-XSISO-ETOH-BLK-100
5	0.0005	VHG-S20MIN-5-100	VHG-PS13M-5-100	VHG-SDSL-5-100	VHG-SISO-5-100	VHG-XSISO75TOL25-5-100	VHG-XSISO-ETOH-5-100
9*	0.0009	VHG-S20MIN-9-100	VHG-PS13M-9-100	VHG-SDSL-9-100	VHG-SISO-9-100	VHG-XSISO75TOL25-9-100	VHG-XSISO-ETOH-9-100
10	0.0010	VHG-S20MIN-10-100	VHG-PS13M-10-100	VHG-SDSL-10-100	VHG-SISO-10-100	VHG-XSISO75TOL25-10-100	VHG-XSISO-ETOH-10-100
15	0.0015	VHG-S20MIN-15-100	VHG-PS13M-15-100	VHG-SDSL-15-100	VHG-SISO-15-100	VHG-XSISO75TOL25-15-100	VHG-XSISO-ETOH-15-100
19*	0.0019	VHG-S20MIN-19-100	VHG-PS13M-19-100	VHG-SDSL-19-100	VHG-SISO-19-100	VHG-XSISO75TOL25-19-100	VHG-XSISO-ETOH-19-100
20	0.0020	VHG-S20MIN-20-100	VHG-PS13M-20-100	VHG-SDSL-20-100	VHG-SISO-20-100	VHG-XSISO75TOL25-20-100	VHG-XSISO-ETOH-20-100
25	0.0025	VHG-S20MIN-25-100	VHG-PS13M-25-100	VHG-SDSL-25-100	VHG-SISO-25-100	VHG-XSISO75TOL25-25-100	VHG-XSISO-ETOH-25-100
50	0.0050	VHG-S20MIN-50-100	VHG-PS13M-50-100	VHG-SDSL-50-100	VHG-SISO-50-100	VHG-XSISO75TOL25-50-100	VHG-XSISO-ETOH-50-100
75	0.0075	VHG-S20MIN-75-100	VHG-PS13M-75-100	VHG-SDSL-75-100	VHG-SISO-75-100	VHG-XSISO75TOL25-75-100	VHG-XSISO-ETOH-75-100
100	0.0100	VHG-S20MIN-100-100	VHG-PS13M-100-100	VHG-SDSL-100-100	VHG-SISO-100-100	VHG-XSISO75TOL25-100-100	VHG-XSISO-ETOH-100-100
200	0.0200	VHG-S20MIN-200-100	VHG-PS13M-200-100	VHG-SDSL-200-100	VHG-SISO-200-100	VHG-XSISO75TOL25-200-100	VHG-XSISO-ETOH-200-100
300	0.0300	VHG-S20MIN-300-100	VHG-PS13M-300-100	VHG-SDSL-300-100	VHG-SISO-300-100	VHG-XSISO75TOL25-300-100	VHG-XSISO-ETOH-300-100
400	0.0400	VHG-S20MIN-400-100	VHG-PS13M-400-100	VHG-SDSL-400-100	VHG-SISO-400-100	VHG-XSISO75TOL25-400-100	VHG-XSISO-ETOH-400-100
500	0.0500	VHG-S20MIN-500-100	VHG-PS13M-500-100	VHG-SDSL-500-100	VHG-SISO-500-100	VHG-XSISO75TOL25-500-100	VHG-XSISO-ETOH-500-100
750	0.0750	VHG-S20MIN-750-100	VHG-PS13M-750-100	VHG-SDSL-750-100	VHG-SISO-750-100	VHG-XSISO75TOL25-750-100	VHG-XSISO-ETOH-750-100
1000	0.100	VHG-S20MIN-1000-100	VHG-PS13M-1000-100	VHG-SDSL-1000-100	VHG-SISO-1000-100	VHG-XSISO75TOL25-1000-100	VHG-XSISO-ETOH-1000-100
3000	0.300	VHG-S20MIN-3000-100	VHG-PS13M-3000-100	VHG-SDSL-3000-100	VHG-SISO-3000-100	VHG-XSISO75TOL25-3000-100	VHG-XSISO-ETOH-3000-100
Sulfur by UV Fluorescence							
VHG-SUVF-SET1			Total Sulfur by UV Fluorescence Set for ASTM D5453 - S @ 0, 1, 2.5, 7.5, 10 ng/µL.				Set of 6x2mL ampoules in isooctane
VHG-SUVF-SET2			Total Sulfur by UV Fluorescence Set for ASTM D5453 - S @ 0, 5, 25, 50, 100, 200 ng/µL.				Set of 6x2mL ampoules in isooctane
Sulfur by Hydrogenolysis and Rateometric Colorimetry							
VHG-SRC-SET1A			Sulfur by Hydrogenolysis & Rateometric Colorimetry in Isooctane - 0, .01, 0.5, 1.0, 2.5, 5.0, 10.0µg/g				7x2mL
ASTM D86 Group 1 & 2 Synthetic Distillation Standard							
VHG-D86			Synthetic Distillation Standard				Available in multiple sizes
ASTM D86 Group 4 Distillation Standard							
VHG-D86-4			Distillation Standard				Available in multiple sizes

*Recommended for EPA Tier 3 Validation

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