

Traceable Sulfur Calibration Standards

Sulfur Calibration Standards



Sulfur Standards for ASTM D-2622, D-3120, D-3246, D-4294, D-5453, D-6334, D-6445 & Proposed ASTM Sulfur Methods

Sulfur in Mineral Oil

Sulfur in Heavy Weight Mineral Oil (75 cSt)

Concentration		Sulfur in White Mineral Oil	Ready-to-Use Sulfur AccuShots
µg/g	Wt. %	Cat. No.	Cat. No.
Blank	0.000	SWMO-BL-4	SWMO-BL-20ML-PAK
100	0.010	SWMO-1X-4	SWMO-1X-20ML-PAK
200	0.020	SWMO-2X-4	SWMO-2X-20ML-PAK
300	0.030	SWMO-3X-4	SWMO-3X-20ML-PAK
400	0.040	SWMO-4X-4	SWMO-4X-20ML-PAK
500	0.050	SWMO-5X-4	SWMO-5X-20ML-PAK
750	0.075	SWMO-7.5X-4	SWMO-7.5X-20ML-PAK
1,000	0.10	SWMO-10X-4	SWMO-10X-20ML-PAK
1,500	0.15	SWMO-15X-4	SWMO-15X-20ML-PAK
2,000	0.20	-----	-----
3,000	0.30	SWMO-30X-4	SWMO-30X-20ML-PAK
4,000	0.40	-----	-----
5,000	0.50	SWMO-50X-4	SWMO-50X-20ML-PAK
7,000	0.70	SWMO-70X-4	SWMO-70X-20ML-PAK
10,000	1.00	SWMO-100X-4	SWMO-100X-20ML-PAK
15,000	1.50	SWMO-150X-4	SWMO-150X-20ML-PAK
20,000	2.00	SWMO-200X-4	SWMO-200X-20ML-PAK
30,000	3.00	SWMO-300X-4	SWMO-300X-20ML-PAK
40,000	4.00	SWMO-400X-4	SWMO-400X-20ML-PAK
50,000	5.00	SWMO-500X-4	SWMO-500X-20ML-PAK
60,000	6.00	SWMO-600X-4	SWMO-600X-20ML-PAK

Set of above Cat. No.'s SWMO-CAL-4-SET 19 x 4 oz. 5 x 20 mL ampules at stated conc.
Individual Sulfur Standards 4 oz. Bottle 1-10 units 10+units

Sulfur in Light Weight Mineral Oil (20 cSt)

Concentration		Sulfur in White Mineral Oil	Ready-to-Use Sulfur AccuShots
µg/g	Wt. %	Cat. No.	Cat. No.
Blank	0.000	SWMO-LT-BL-4	SWMO-LT-BL-20ML-PAK
100	0.010	SWMO-LT-1X-4	SWMO-LT-1X-20ML-PAK
200	0.020	SWMO-LT-2X-4	SWMO-LT-2X-20ML-PAK
300	0.030	SWMO-LT-3X-4	SWMO-LT-3X-20ML-PAK
400	0.040	SWMO-LT-4X-4	SWMO-LT-4X-20ML-PAK
500	0.050	SWMO-LT-5X-4	SWMO-LT-5X-20ML-PAK
750	0.075	SWMO-LT-7.5X-4	SWMO-LT-7.5X-20ML-PAK
1,000	0.10	SWMO-LT-10X-4	SWMO-LT-10X-20ML-PAK
1,500	0.15	SWMO-LT-15X-4	SWMO-LT-15X-20ML-PAK
2,000	0.20	-----	-----
3,000	0.30	SWMO-LT-30X-4	SWMO-LT-30X-20ML-PAK
4,000	0.40	-----	-----
5,000	0.50	SWMO-LT-50X-4	SWMO-LT-50X-20ML-PAK
7,000	0.70	SWMO-LT-70X-4	SWMO-LT-70X-20ML-PAK
10,000	1.00	SWMO-LT-100X-4	SWMO-LT-100X-20ML-PAK
15,000	1.50	SWMO-LT-150X-4	SWMO-LT-150X-20ML-PAK
20,000	2.00	SWMO-LT-200X-4	SWMO-LT-200X-20ML-PAK
30,000	3.00	SWMO-LT-300X-4	SWMO-LT-300X-20ML-PAK
40,000	4.00	SWMO-LT-400X-4	SWMO-LT-400X-20ML-PAK
50,000	5.00	SWMO-LT-500X-4	SWMO-LT-500X-20ML-PAK
60,000	6.00	SWMO-LT-600X-4	SWMO-LT-600X-20ML-PAK

Set of above Cat. No.'s SWMO-LT-CAL-4-SET5 19 x 4 oz. 5 x 20 mL ampules at stated conc.
Individual Sulfur Standards 4 oz. Bottle 1-10 units 10+units

Sulfur Methods

Sulfur in #2 Diesel Fuel

Concentration		Sulfur in #2 Diesel Fuel	Ready-to-Use Sulfur AccuShots
µg/g	Wt. %	Cat. No.	Cat. No.
Blank	0.000	SDF-BL-4	SDF-BL-20ML-PAK
100	0.010	SDF-1X-4	SDF-1X-20ML-PAK
200	0.020	SDF-2X-4	SDF-2X-20ML-PAK
300	0.030	SDF-3X-4	SDF-3X-20ML-PAK
400	0.040	SDF-4X-4	SDF-4X-20ML-PAK
500	0.050	SDF-5X-4	SDF-5X-20ML-PAK
750	0.075	SDF-7.5X-4	SDF-7.5X-20ML-PAK
1,000	0.10	SDF-10X-4	SDF-10X-20ML-PAK
1,500	0.15	SDF-15X-4	SDF-15X-20ML-PAK
2,000	0.20	-----	-----
3,000	0.30	SDF-30X-4	SDF-30X-20ML-PAK
4,000	0.40	-----	-----
5,000	0.50	SDF-50X-4	SDF-50X-20ML-PAK
7,000	0.70	SDF-70X-4	SDF-70X-20ML-PAK
10,000	1.00	SDF-100X-4	SDF-100X-20ML-PAK
15,000	1.50	SDF-150X-4	SDF-150X-20ML-PAK
20,000	2.00	SDF-200X-4	SDF-200X-20ML-PAK
30,000	3.00	SDF-300X-4	SDF-300X-20ML-PAK
40,000	4.00	SDF-400X-4	SDF-400X-20ML-PAK
50,000	5.00	SDF-500X-4	SDF-500X-20ML-PAK
60,000	6.00	SDF-600X-4	SDF-600X-20ML-PAK

Set of above Cat. No.'s SDF-CAL-4-SET 19 x 4 oz. 5 x 20 mL ampules at stated conc.
Individual Sulfur Standards 4 oz. Bottle 1-10 units 10+units

Ready-to-Use

AccuStandard is the first standard manufacturer to provide sulfur standards in convenient and Ready-to-Aspirate AccuShot 20 mL sealed ampules. Each 20 mL AccuShot provides the necessary material for calibration curve development or daily QA/QC. By purchasing AccuShots the analytical chemist can open a fresh shot for each analysis which eliminates opening and pipetting repeatedly from a stock bottle. This minimizes contamination and evaporation. These ship with no haz fee for additional savings.

- Ultra Low Sulfur Matrices • Convenient Packaging • Wide Variety of Matrices

AccuStandard's Technical Service Dept. can provide Ready-to-Inject working level calibration standards to meet unique laboratory applications call or fax us your standard requirements.

Technical Note

Sulfur concentration calculated from % sulfur in di-n-butyl sulfide.

These products require a Hazardous Shipping Charge



Working Level Standards & Continuing Calibration Check (CCC)



Traceable Sulfur Calibration Standards

Sulfur Calibration Standards

Sulfur Standards for ASTM D-2622, D-3120, D-3246, D-4294, D-5453, D-6334, D-6445 & Proposed ASTM Sulfur Methods

Sulfur in Kerosene

Sulfur in Light Distillate Kerosene

Concentration		Sulfur in Light Distillate Kerosene		Ready-to-Use Sulfur AccuShots	
µg/g	Wt. %	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Blank	0.000	SK-BL-4	SK-BL-20ML-PAK	SK-BL-20ML-PAK	SK-BL-20ML-PAK
100	0.010	SK-1X-4	SK-1X-20ML-PAK	SK-1X-20ML-PAK	SK-1X-20ML-PAK
200	0.020	-----	-----	-----	-----
300	0.030	SK-3X-4	SK-3X-20ML-PAK	SK-3X-20ML-PAK	SK-3X-20ML-PAK
400	0.040	-----	-----	-----	-----
500	0.050	SK-5X-4	SK-5X-20ML-PAK	SK-5X-20ML-PAK	SK-5X-20ML-PAK
750	0.075	SK-7.5X-4	SK-7.5X-20ML-PAK	SK-7.5X-20ML-PAK	SK-7.5X-20ML-PAK
1,000	0.10	SK-10X-4	SK-10X-20ML-PAK	SK-10X-20ML-PAK	SK-10X-20ML-PAK
1,500	0.15	-----	-----	-----	-----
2,000	0.20	SK-20X-4	SK-20X-20ML-PAK	SK-20X-20ML-PAK	SK-20X-20ML-PAK
3,000	0.30	SK-30X-4	SK-30X-20ML-PAK	SK-30X-20ML-PAK	SK-30X-20ML-PAK
4,000	0.40	SK-40X-4	SK-40X-20ML-PAK	SK-40X-20ML-PAK	SK-40X-20ML-PAK
5,000	0.50	SK-50X-4	SK-50X-20ML-PAK	SK-50X-20ML-PAK	SK-50X-20ML-PAK
7,000	0.70	-----	-----	-----	-----
10,000	1.00	SK-100X-4	SK-100X-20ML-PAK	SK-100X-20ML-PAK	SK-100X-20ML-PAK
15,000	1.50	-----	-----	-----	-----
20,000	2.00	SK-200X-4	SK-200X-20ML-PAK	SK-200X-20ML-PAK	SK-200X-20ML-PAK
30,000	3.00	-----	-----	-----	-----
40,000	4.00	-----	-----	-----	-----
50,000	5.00	-----	-----	-----	-----
60,000	6.00	-----	-----	-----	-----

Sulfur in Heavy Distillate Kerosene

Concentration		Sulfur in Heavy Distillate Kerosene	
µg/g	Wt. %	Cat. No.	Cat. No.
Blank	0.000	SK-HD-BL-4	SK-HD-BL-4
100	0.010	SK-HD-1X-4	SK-HD-1X-4
200	0.020	SK-HD-2X-4	SK-HD-2X-4
300	0.030	SK-HD-3X-4	SK-HD-3X-4
400	0.040	SK-HD-4X-4	SK-HD-4X-4
500	0.050	SK-HD-5X-4	SK-HD-5X-4
750	0.075	SK-HD-7.5X-4	SK-HD-7.5X-4
1,000	0.10	SK-HD-10X-4	SK-HD-10X-4
1,500	0.15	SK-HD-15X-4	SK-HD-15X-4
2,000	0.20	SK-HD-20X-4	SK-HD-20X-4
3,000	0.30	SK-HD-30X-4	SK-HD-30X-4
4,000	0.40	SK-HD-40X-4	SK-HD-40X-4
5,000	0.50	SK-HD-50X-4	SK-HD-50X-4
7,000	0.70	SK-HD-70X-4	SK-HD-70X-4
10,000	1.00	SK-HD-100X-4	SK-HD-100X-4
15,000	1.50	SK-HD-150X-4	SK-HD-150X-4
20,000	2.00	SK-HD-200X-4	SK-HD-200X-4
30,000	3.00	SK-HD-300X-4	SK-HD-300X-4
40,000	4.00	SK-HD-400X-4	SK-HD-400X-4
50,000	5.00	SK-HD-500X-4	SK-HD-500X-4
60,000	6.00	SK-HD-600X-4	SK-HD-600X-4

Technical Note

Sulfur concentration calculated from % sulfur in di-*n*-butyl sulfide.

Standards of Interest

For the mandatory real world QC samples stipulated in the Method, see pages 56.

Sulfur Methods

Set of above SK-CAL-4-SET 5 x 20 mL ampules at stated conc.
Cat. No.'s 12 x 4 oz.
Individual Sulfur 1-10 units 10+units
Stds. 4 oz. Bottle

Set of above SK-HD-CAL-4-SET
Cat. No.'s 21 x 4 oz.
Individual Sulfur 1 -10 units 10 +units
Stds. 4 oz. Bottle

Sulfur in Crude Oil and Residual Oil

Sulfur in Crude Oil Standards

Concentration		Sulfur in Crude Oil	
µg/g	Wt. %	Cat. No.	Cat. No.
1,000	0.10	SCO-10X-4	SCO-10X-4
2,500	0.25	SCO-25X-4	SCO-25X-4
5,000	0.50	SCO-50X-4	SCO-50X-4
10,000	1.00	SCO-100X-4	SCO-100X-4
20,000	2.00	SCO-200X-4	SCO-200X-4
30,000	3.00	SCO-300X-4	SCO-300X-4
40,000	4.00	SCO-400X-4	SCO-400X-4
50,000	5.00	SCO-500X-4	SCO-500X-4

Sulfur in Residual Oil Standards

Concentration		Sulfur in Crude Oil	
µg/g	Wt. %	Cat. No.	Cat. No.
3,500	0.35	SRO-35X-4	SRO-35X-4
7,000	0.70	SRO-70X-4	SRO-70X-4
10,000	1.00	SRO-100X-4	SRO-100X-4
15,000	1.50	SRO-150X-4	SRO-150X-4
20,000	2.00	SRO-200X-4	SRO-200X-4
30,000	3.00	SRO-300X-4	SRO-300X-4
40,000	4.00	SRO-400X-4	SRO-400X-4

Set of above SCO-CAL-4-SET
Cat. No.'s 8 x 4 oz.
Individual Sulfur 1 -10 units 10 +units
Standards 4 oz. Bottle

Set of above SRO-CAL-4-SET
Cat. No.'s 7 x 4 oz.
Individual Sulfur 1 -10 units 10 +units
Standards 4 oz. Bottle

Proposed ASTM Methods Sulfur Calibration Standards

Total Sulfur in Aromatic Compounds by Hydrogenolysis and Rateometric Colorimetry

ASTM-P-0010-PAK 5 x 1 mL
1000 µg/mL in Toluene

Sulfur (as Thiophene)

Trace Quantities of Sulfur in Liquid Aromatic Hydrocarbons by Oxidative Microcoulometry

ASTM-P-0020-PAK 5 x 1 mL
1000 µg/mL in Xylenes

Sulfur (as Dibenzothiophene)

Technical Note

Well characterized Thiophene is used in a low sulfur Toluene matrix for this stock calibration standard.

Technical Note

Well characterized Dibenzothiophene is used in a low sulfur Xylene matrix for this stock calibration standard.

These products require a Hazardous Shipping Charge

Traceable Standards for ASTM Methods

Sulfur Calibration Standards



ASTM D-2622, D-4294

Designed for
D-2622-98
D-4294-98

Sulfur Calibration Standards in Isooctane for Gasoline & Reformulated Gasoline Analysis

Cat. No.	Sulfur Conc.	Sulfur Wt. %	Unit
STP-BL-4	Blank	0.0	4 oz.
STP-1X-4	10 µg/g	0.001	4 oz.
STP-2X-4	20 µg/g	0.002	4 oz.
STP-3X-4	30 µg/g	0.003	4 oz.
STP-5X-4	50 µg/g	0.005	4 oz.
STP-10X-4	100 µg/g	0.010	4 oz.
STP-20X-4	200 µg/g	0.020	4 oz.
STP-30X-4	300 µg/g	0.030	4 oz.
STP-40X-4	400 µg/g	0.040	4 oz.
STP-60X-4	600 µg/g	0.060	4 oz.
STP-100X-4	1000 µg/g	0.10	4 oz.
STP-200X-4	2000 µg/g	0.20	4 oz.
STP-300X-4	3000 µg/g	0.30	4 oz.

STP-CAL-SET set of 13 x 4 oz.
In Isooctane Set contains the above 13 individual bottles

ASTM D-2622, D-6334, D-6445

Designed for
D-2622-98
D-6334-98
D-6445-99

Low Level Sulfur Calibration Standards for use on XRF Energy Dispersive or Wavelength Instruments

Cat. No.	Sulfur Conc.	Sulfur Wt. %	Unit
D-2622-LL-BL-4	Blank	0.0	4 oz.
D-2622-LL-5X-4	5 µg/g	0.0005	4 oz.
D-2622-LL-10X-4	10 µg/g	0.0010	4 oz.
D-2622-LL-30X-4	30 µg/g	0.0030	4 oz.
D-2622-LL-50X-4	50 µg/g	0.0050	4 oz.
D-2622-LL-75X-4	75 µg/g	0.0075	4 oz.
D-2622-LL-100X-4	100 µg/g	0.010	4 oz.
D-2622-LL-300X-4	300 µg/g	0.030	4 oz.
D-2622-LL-500X-4	500 µg/g	0.050	4 oz.
D-2622-LL-1000X-4	1000 µg/g	0.100	4 oz.

D-2622-LL-CAL-SET 10 x 4 oz.
In Isooctane : Toluene (3:1) Set contains the above 10 individual bottles

Sulfur Methods

Technical Note

A well characterized di-*n*-butyl sulfide starting material is used with a low sulfur Isooctane matrix for RFG/gasoline sulfur standards.

Technical Note

Well characterized Thiophene & 2-Methyl thiophene are used in a low sulfur Isooctane/Toluene matrix for this calibration set.

ASTM D-3120, D-3246

Designed for
D-3120-96
D-3246-96

Sulfur Calibration Set

D-3120-92-CAL-SET set of 8 x 1 mL
In Isooctane

Cat. No.	Sulfur Conc.	Sulfur Wt. %
D-3120-92-BL	Blank	—
D-3120-92-1X	1 µg/g	0.0001
D-3120-92-3X	3 µg/g	0.0003
D-3120-92-10X	10 µg/g	0.0010
D-3120-92-30X	30 µg/g	0.0030
D-3120-92-50X	50 µg/g	0.0050
D-3120-92-75X	75 µg/g	0.0075
D-3120-92-100X	100 µg/g	0.010

Technical Note

Well characterized di-*n*-butyl sulfide is used in a low sulfur Isooctane matrix for this calibration set.

Mid Level Sulfur Calibration Standards for use on XRF Energy Dispersive or Wavelength Instruments

Cat. No.	Sulfur Conc.	Sulfur Wt. %	Unit
D-2622-LL-200X-4	200 µg/g	0.020	4 oz
D-2622-LL-400X-4	400 µg/g	0.040	4 oz
D-2622-LL-600X-4	600 µg/g	0.060	4 oz
D-2622-LL-700X-4	700 µg/g	0.070	4 oz
D-2622-LL-800X-4	800 µg/g	0.080	4 oz
D-2622-LL-900X-4	900 µg/g	0.090	4 oz
D-2622-LL-1100X-4	1100 µg/g	0.110	4 oz
D-2622-LL-1200X-4	1200 µg/g	0.120	4 oz

These products require a Hazardous Shipping Charge

Standards of Interest

For the mandatory real world QC samples stipulated in many ASTM Sulfur Methods, see page 56.



AccuStandard is an active member in ASTM and strives to keep abreast of ASTM method revisions. If our listed formulation does not meet the most recent method revision, please contact Technical Support for an updated product.





Traceable Standards for ASTM Methods

Sulfur in Gasoline QA/QC Standards

ASTM Sulfur QA/QC

AccuPetroCheck and AccuPetroTest Real World Gasoline QC Standards

In cooperation with ASTM D-02 subcommittee 3 and 4, AccuStandard ampuled 21 **Real World** gasoline reference fuels. Consensus Values have been determined for these reference fuels by various ASTM Round Robins to provide Petrochemical Laboratories with a source of well characterized gasoline standards for use in QA/QC applications and as Single Blind test samples over an extended period of time. As new ASTM D-02.03 and D-02.04 Test methods are promulgated they require **mandatory Quality Control** testing of real world samples. AccuStandard's AccuPetroTest & AccuPetroCheck standards are being successfully used to achieve these new Quality Control requirements.

QC Standards

CARB Low Sulfur RFG QC Standard

ASTM-FUEL-QCS-01-PAK		5 x 15 mL	
Parameter	Method	Value	Conc.
Total Aromatics	D-1319	24.5	Vol.%
Total Olefins	D-1319	5.3	Vol.%
Total Saturates	D-1319	58.3	Vol.%
Sulfur	D-2622	0.0057	Wt.%
Sulfur	D-4294	0.0078	Wt.%
Sulfur	D-5453	55.76	µg/g
Sulfur	D-6344	59.31	µg/g
Benzene	D-5769	0.80	Vol.%
Toluene	D-5769	4.92	Vol.%
Total Aromatics	D-5769	23.42	Vol.%
Benzene	D-6227	0.78	Vol.%
Total Olefins	D-6550	5.3	Vol.%

Conventional Gasoline QC Standard

ASTM-FUEL-QCS-02-PAK		5 x 15 mL	
Parameter	Method	Value	Conc.
Total Aromatics	D-1319	34.6	Vol.%
Total Olefins	D-1319	12.4	Vol.%
Total Saturates	D-1319	62.8	Vol.%
Sulfur	D-2622	0.0338	Wt.%
Sulfur	D-4294	0.0368	Wt.%
Sulfur	D-5453	317.36	µg/g
Sulfur	D-6344	338.78	µg/g
Benzene	D-5769	0.55	Vol.%
Toluene	D-5769	5.53	Vol.%
Total Aromatics	D-5769	32.51	Vol.%
Benzene	D-6227	0.52	Vol.%
Total Olefins	D-6550	12.4	Vol.%

AccuPetroCheck QC Standards

Two of the fuels are available as **AccuPetroCheck** Consensus Value **QC Standards**. The **AccuPetroCheck** CARB and Conventional gasoline reference materials have all parameters listed on the certificate with the Consensus Values and the regression equations for reproducibility. Use of these Reference Materials improve the quality of laboratory results. The Consensus Values listed reflect initial statistical treatment of the data at the time the catalog was published. The actual certificate provided with the **AccuPetroCheck** QC standard will have the accepted Consensus Value based on statistical treatment of the data.

AccuPetroTest

Sulfur in Diesel Fuel QC Standard

SBPT-SDF		2 x 15 mL	
Parameter	Method	Approx. Range	
Sulfur		20 - 11000	mg/kg

See ASTM Methods D-2622, D-3120, D-3246-92, D-4294, D-5453, for Sulfur Calibration Standards

Sulfur in White Mineral Oil QC Standard

SBPT-SWMO		2 x 15 mL	
Parameter	Method	Approx. Range	
Sulfur		20 - 11000	mg/kg

See ASTM Methods D-2622, D-3120, D-3246-92, D-4294, D-5453 for Sulfur Calibration Standards

Sulfur Single Blind AccuPetroTest Alternative Matrices Standards

AccuStandard has manufactured a number of Diesel and White Mineral Oil quality control products containing a gravimetrically prepared amount of Sulfur. Use of these alternative matrix materials can provide further evaluation of the QA/QC process in the laboratory. Two samples will be sent for the test parameter and a separate sealed envelope containing the gravimetrically prepared sulfur values is also provided. The second sample is for repeatability testing or for use as a future QA/QC reference.

AccuPetroTest Gasoline

Low Sulfur QC Sample

SBPT-LSGAS		2 x 15 mL	
Parameter	Method	Approx. Range	
Sulfur	5453	0 - 50	µg/g

Olefin QC Sample

SBPT-OLEFINSFC		2 x 15 mL	
Parameter	Method	Approx. Range	
Olefins	6550	1 - 40	Vol.%

AccuPetroTest Gasoline QC

Olefins QC Sample

SBPT-OLEFIN		2 x 15 mL	
Parameter	Method	Approx. Range	
Total Aromatics	D-1319	8-60	Vol.%
Total Olefins	D-1319	1 - 40	Vol.%
Total Saturates	D-1319	30-80	Vol.%

See ASTM Method D-1319 for Sulfur Calibration Standards

Sulfur QC Sample

SBPT-SGAS		2 x 15 mL	
Parameter	Method	Approx. Range	
Sulfur	D-2622	0.0001 - 0.0930	Wt.%
Sulfur	D-4294	0.0016 - 0.0930	Wt.%
Sulfur	D-5453	4.0 - 500	µg/g
Sulfur	D-XXXX	1.0 - 1000	µg/g

See ASTM Methods D-2622, D-3120, D-3246-92, D-4294, D-5453 for Sulfur Calibration Standards

AccuPetroTest Single Blind Standards

Petrochemical Laboratories looking to test the performance of the laboratory for a specific parameter can order the Single Blind **AccuPetroTest** sample for the parameter of interest. Two real world gasoline samples will be sent for the test parameter requested and a separate sealed envelope containing the determined Consensus Value is also provided. The second sample is for repeatability testing or as a future QA/QC reference.

Aromatics QC Sample

SBPT-AROM		2 x 15 mL	
Parameter	Method	Approx. Range	
Total Aromatics	D-5769	8 - 60	Vol.%

See ASTM Methods D-3606, D-5580-95, D-5769-95 for Benzene Calibration Standards

Benzene/Toluene QC Sample

SBPT-BENZ		2 x 15 mL	
Parameter	Method	Approx. Range	
Benzene	D-5769	0.1 - 2.0	Vol.%
Toluene	D-5769	1.0 - 15	Vol.%

See ASTM Methods D-3606, D-5580-95, D-5769-95 for Benzene Calibration Standards

ASTM-FUEL-QCS-01-PAK:56	SK-20X-4:54	SWMO-5X-4:53
ASTM-FUEL-QCS-02-PAK:56	SK-30X-20ML-PAK:54	SWMO-600X-20ML-PAK:53
ASTM-P-0010-PAK:54	SK-30X-4:54	SWMO-600X-4:53
ASTM-P-0020-PAK:54	SK-3X-20ML-PAK:54	SWMO-7.5X-20ML-PAK:53
D-2622-LL-1000X-4:55	SK-3X-4:54	SWMO-7.5X-4:53
D-2622-LL-100X-4:55	SK-40X-20ML-PAK:54	SWMO-70X-20ML-PAK:53
D-2622-LL-10X-4:55	SK-40X-4:54	SWMO-70X-4:53
D-2622-LL-1100X-4:55	SK-50X-20ML-PAK:54	SWMO-BL-20ML-PAK:53
D-2622-LL-1200X-4:55	SK-50X-4:54	SWMO-BL-4:53
D-2622-LL-200X-4:55	SK-5X-20ML-PAK:54	SWMO-CAL-4-SET:53
D-2622-LL-300X-4:55	SK-5X-4:54	SWMO-LT-100X-20ML-PAK:53
D-2622-LL-30X-4:55	SK-7.5X-20ML-PAK:54	SWMO-LT-100X-4:53
D-2622-LL-400X-4:55	SK-7.5X-4:54	SWMO-LT-10X-20ML-PAK:53
D-2622-LL-500X-4:55	SK-BL-20ML-PAK:54	SWMO-LT-10X-4:53
D-2622-LL-50X-4:55	SK-BL-4:54	SWMO-LT-150X-20ML-PAK:53
D-2622-LL-5X-4:55	SK-CAL-4-SET:54	SWMO-LT-150X-4:53
D-2622-LL-600X-4:55	SK-HD-100X-4:54	SWMO-LT-15X-20ML-PAK:53
D-2622-LL-700X-4:55	SK-HD-10X-4:54	SWMO-LT-15X-4:53
D-2622-LL-75X-4:55	SK-HD-150X-4:54	SWMO-LT-1X-20ML-PAK:53
D-2622-LL-800X-4:55	SK-HD-15X-4:54	SWMO-LT-1X-4:53
D-2622-LL-900X-4:55	SK-HD-1X-4:54	SWMO-LT-200X-20ML-PAK:53
D-2622-LL-BL-4:55	SK-HD-200X-4:54	SWMO-LT-200X-4:53
D-2622-LL-CAL-SET:55	SK-HD-20X-4:54	SWMO-LT-2X-20ML-PAK:53
D-3120-92-CAL-SET:55	SK-HD-2X-4:54	SWMO-LT-2X-4:53
SBPT-AROM:56	SK-HD-300X-4:54	SWMO-LT-300X-20ML-PAK:53
SBPT-BENZ:56	SK-HD-30X-4:54	SWMO-LT-300X-4:53
SBPT-LSGAS:56	SK-HD-3X-4:54	SWMO-LT-30X-20ML-PAK:53
SBPT-OLEFIN:56	SK-HD-400X-4:54	SWMO-LT-30X-4:53
SBPT-OLEFINSFC:56	SK-HD-40X-4:54	SWMO-LT-3X-20ML-PAK:53
SBPT-SDF:56	SK-HD-4X-4:54	SWMO-LT-3X-4:53
SBPT-SGAS:56	SK-HD-500X-4:54	SWMO-LT-400X-20ML-PAK:53
SBPT-SWMO:56	SK-HD-50X-4:54	SWMO-LT-400X-4:53
SCO-100X-4:54	SK-HD-5X-4:54	SWMO-LT-4X-20ML-PAK:53
SCO-10X-4:54	SK-HD-600X-4:54	SWMO-LT-4X-4:53
SCO-200X-4:54	SK-HD-7.5X-4:54	SWMO-LT-500X-20ML-PAK:53
SCO-25X-4:54	SK-HD-70X-4:54	SWMO-LT-500X-4:53
SCO-300X-4:54	SK-HD-BL-4:54	SWMO-LT-50X-20ML-PAK:53
SCO-400X-4:54	SK-HD-CAL-4-SET:54	SWMO-LT-50X-4:53
SCO-500X-4:54	SRO-100X-4:54	SWMO-LT-5X-20ML-PAK:53
SCO-50X-4:54	SRO-150X-4:54	SWMO-LT-5X-4:53
SCO-CAL-4-SET:54	SRO-200X-4:54	SWMO-LT-600X-20ML-PAK:53
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SDF-100X-4:53	SRO-35X-4:54	SWMO-LT-7.5X-20ML-PAK:53
SDF-10X-20ML-PAK:53	SRO-400X-4:54	SWMO-LT-7.5X-4:53
SDF-10X-4:53	SRO-70X-4:54	SWMO-LT-70X-20ML-PAK:53
SDF-150X-20ML-PAK:53	SRO-CAL-4-SET:54	SWMO-LT-70X-4:53
SDF-150X-4:53	STP-100X-4:55	SWMO-LT-BL-20ML-PAK:53
SDF-15X-20ML-PAK:53	STP-10X-4:55	SWMO-LT-BL-4:53
SDF-15X-4:53	STP-1X-4:55	SWMO-LT-CAL-4-SET:53
SDF-1X-20ML-PAK:53	STP-200X-4:55	
SDF-1X-4:53	STP-20X-4:55	
SDF-200X-20ML-PAK:53	STP-2X-4:55	
SDF-200X-4:53	STP-300X-4:55	
SDF-2X-20ML-PAK:53	STP-30X-4:55	
SDF-2X-4:53	STP-3X-4:55	
SDF-300X-20ML-PAK:53	STP-40X-4:55	
SDF-300X-4:53	STP-5X-4:55	
SDF-30X-20ML-PAK:53	STP-60X-4:55	
SDF-30X-4:53	STP-BL-4:55	
SDF-3X-20ML-PAK:53	STP-CAL-SET:55	
SDF-3X-4:53	SWMO-100X-20ML-PAK:53	
SDF-400X-20ML-PAK:53	SWMO-100X-4:53	
SDF-400X-4:53	SWMO-10X-20ML-PAK:53	
SDF-4X-20ML-PAK:53	SWMO-10X-4:53	
SDF-4X-4:53	SWMO-150X-20ML-PAK:53	
SDF-500X-20ML-PAK:53	SWMO-150X-4:53	
SDF-500X-4:53	SWMO-15X-20ML-PAK:53	
SDF-50X-20ML-PAK:53	SWMO-15X-4:53	
SDF-50X-4:53	SWMO-1X-20ML-PAK:53	
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SDF-5X-4:53	SWMO-200X-20ML-PAK:53	
SDF-600X-20ML-PAK:53	SWMO-200X-4:53	
SDF-600X-4:53	SWMO-2X-20ML-PAK:53	
SDF-7.5X-20ML-PAK:53	SWMO-2X-4:53	
SDF-7.5X-4:53	SWMO-300X-20ML-PAK:53	
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SK-100X-20ML-PAK:54	SWMO-400X-20ML-PAK:53	
SK-100X-4:54	SWMO-400X-4:53	
SK-10X-20ML-PAK:54	SWMO-4X-20ML-PAK:53	
SK-10X-4:54	SWMO-4X-4:53	
SK-1X-20ML-PAK:54	SWMO-500X-20ML-PAK:53	
SK-1X-4:54	SWMO-500X-4:53	
SK-200X-20ML-PAK:54	SWMO-50X-20ML-PAK:53	
SK-200X-4:54	SWMO-50X-4:53	
SK-20X-20ML-PAK:54	SWMO-5X-20ML-PAK:53	