

Petroleum Standards

These petroleum standards are gravimetrically prepared, NIST-traceable by weight, and verified by one or more analytical methods.

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also available

Custom ULSD and LSD calibration standards are also available in 100mL, 200mL, 500mL, and 1 liter bottles.

Call our Analytical Reference Department at 800-356-1688 or 814-353-1300, or your Restek representative for details.

Sulfur Simulated Distillation Standard**new!****SSDS**

30 ppm total sulfur by weight from ethanethiol
 60 ppm total sulfur by weight from 1-propanethiol
 30 ppm total sulfur by weight from 1-butanethiol
 60 ppm total sulfur by weight from 1-pentanethiol
 30 ppm total sulfur by weight from 1-hexanethiol
 60 ppm total sulfur by weight from 1-heptanethiol
 30 ppm total sulfur by weight from 3,5-dimethylbenzenethiol
 60 ppm total sulfur by weight from 1-octanethiol
 30 ppm total sulfur by weight from 1-nonanethiol
 60 ppm total sulfur by weight from 1-decanethiol
 30 ppm total sulfur by weight from 1-pentadecanethiol
 60 ppm total sulfur by weight from 1-hexadecanethiol
 30 ppm total sulfur by weight from 1-octadecanethiol
 Balance: toluene/isooctane 1/15
 1mL pre-scored amber ampul.

cat. # 33049 (ea.)

Speciated Sulfur System Suitability Checkout Standard**new!****SSSSCS**

0.50 ppm total sulfur by weight from dimethylsulfide
 35.0 ppm total sulfur by weight from tertiary butyl mercaptan
 50.0 ppm total sulfur by weight from thiophene
 15.0 ppm total sulfur by weight from dimethyl disulfide
 25.0 ppm total sulfur by weight from benzothiophene
 Balance: isooctane

1mL pre-scored amber ampul.

cat. # 33050 (ea.)

EPA Ultra Low & Low Sulfur Diesel Standards and Samples in Diesel Fuel to Meet EPA Requirements for Lab Qualification**new!****EPA Ultra Low Sulfur Diesel Precision Sample # 1**

EPA Section 80.580-80.585 Title 40, Chapter 1, Part 80

Homogenous commercially available diesel fuel with sulfur content of 5-15 ppm. 1 x 200mL amber bottle.

cat. # 33051 (ea.)

EPA Low Sulfur Diesel Precision Sample # 2

EPA Section 80.580-80.585 Title 40, Chapter 1, Part 80

Homogenous commercially available diesel fuel with sulfur content of 200-500 ppm. 1 x 200mL amber bottle.

cat. # 33052 (ea.)

EPA Ultra Low Sulfur Diesel Accuracy Standard # 1

EPA Section 80.520(a)(1) and 80.510(b)

1-10 ppm total sulfur in a diesel fuel matrix for motor vehicle diesel and diesel additives subject to the 15 ppm sulfur standard. 1 x 200mL amber bottle.

cat. # 33053 (ea.)

EPA Ultra Low Sulfur Diesel Accuracy Standard # 2

EPA Section 80.520(a)(1) and 80.510(b)

10-20 ppm total sulfur in a diesel fuel matrix for motor vehicle diesel and diesel additives subject to the 15 ppm sulfur standard. 1 x 200mL amber bottle.

cat. # 33054 (ea.)

EPA Low Sulfur Diesel Accuracy Standard # 3

EPA Section 80.520(c) and 80.510(c)

100-200 ppm total sulfur in a diesel fuel matrix for motor vehicle diesel and diesel additives subject to the 500 ppm sulfur standard. 1 x 200mL amber bottle.

cat. # 33055 (ea.)

EPA Low Sulfur Diesel Accuracy Standard # 4

EPA Section 80.520(c) and 80.510(c)

400-500 ppm total sulfur in a diesel fuel matrix for motor vehicle diesel and diesel additives subject to the 500 ppm sulfur standard. 1 x 200mL amber bottle.

cat. # 33056 (ea.)

Ultra Low & Low Sulfur in Diesel Fuel Calibration Kits **new!**

EPA Section 80.580-80.585 Title 40, Chapter 1, Part 80

Cal Kit ULSD 1 - 20 **kit**

Blank
1.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
2.5 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
5.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
10.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
15.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
20.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel

Set of seven 20mL bottles.
cat. # 33060 (kit)

Cal Kit ULSD 20 - 100 **kit**

Blank
20.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
35.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
50.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
75.0 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
100 ppm total sulfur from di-*n*-butylsulfide in diesel fuel

Set of six 20mL bottles.
cat. # 33061 (kit)

Cal Kit LSD 100 - 500 **kit**

Blank
100 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
200 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
300 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
400 ppm total sulfur from di-*n*-butylsulfide in diesel fuel
500 ppm total sulfur from di-*n*-butylsulfide in diesel fuel

Set of six 20mL bottles.
cat. # 33062 (kit)

Low Sulfur in Gasoline Calibration Standards **new!**

EPA Section 80.190-80.415 Title 40, Chapter 1, Part 80

Cal Kit SG 10 - 50 **kit**

Blank
10 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
20 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
30 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
40 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
50 ppm sulfur from di-*n*-butylsulfide in gasoline by weight

Set of six 5mL amber bottles.
cat. # 33043 (kit)

Check Standard SG 25

25 ppm sulfur from di-*n*-butylsulfide in gasoline by weight.
Set of five 5mL amber bottles.

cat. # 33044 (ea.)

Low Sulfur in Gasoline Calibration Standards *cont'd*

Cal Kit SG 50 - 125 **kit**

Blank
50 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
65 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
80 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
95 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
110 ppm sulfur from di-*n*-butylsulfide in gasoline by weight
125 ppm sulfur from di-*n*-butylsulfide in gasoline by weight

Set of seven 5mL amber bottles.
cat. # 33045 (kit)

Check Standard SG 75

75 ppm sulfur from di-*n*-butylsulfide in gasoline by weight.
Set of five 5mL amber bottles.

cat. # 33046 (ea.)

Cal Kit SG 110 - 500 **kit**

Blank
110 ppm sulfur from di-*n*-butylsulfide
200 ppm sulfur from di-*n*-butylsulfide
300 ppm sulfur from di-*n*-butylsulfide
400 ppm sulfur from di-*n*-butylsulfide
500 ppm sulfur from di-*n*-butylsulfide

Set of six 5mL amber bottles.
cat. # 33047 (kit)

Check Standard SG 175

175 ppm sulfur from di-*n*-butylsulfide in gasoline by weight.
Set of five 5mL amber bottles.

cat. # 33048 (ea.)

Sulfur in Isooctane Calibration Kits and Check Standards **new!**

ASTM Methods D3120, D4045, D5453, D6920

Cal Kit SISO 0.125 - 2.5ppm **kit**

Blank
0.125 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
0.25 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
0.50 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
1.00 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
2.50 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane

Calibration kit for total sulfur by weight from di-*n*-butylsulfide in isooctane 0.125-2.5ppm range. Set of six 1mL pre-scored ampuls.
cat. # 33035 (kit)

Check Standard SISO 0.75

0.75ppm total sulfur by weight from di-*n*-butylsulfide in isooctane.
Set of five 1mL pre-scored ampuls.

cat. # 33036 (ea.)

also available

Custom ULSD and LSD calibration standards are also available in 100mL, 200mL, 500mL, and 1 liter bottles.

Call our Analytical Reference Department at 800-356-1688 or 814-353-1300, or your Restek representative for details.

ANALYTICAL REFERENCE MATERIALS | OTHER MATERIALS

please note

These petroleum standards are gravimetrically prepared, NIST-traceable by weight, and verified by one or more analytical methods.

also available

Custom total sulfur & total nitrogen in isooctane check standards also available.

Call our Analytical Reference Department at 800-356-1688 or 814-353-1300, or your Restek representative for details.

free data

Available on Our Website: Lot Certificates, Data Packs, and MSDSs

For complete information detailing manufacturing and testing for Restek inventoried reference standards, visit our website at www.restek.com.

To view lot certificates and/or an MSDS, enter the catalog number of the product in the Search feature. For a free data pack (Adobe® PDF file), enter the catalog number and lot number of the product.

Sulfur in Isooctane Calibration Kits and Check Standards *cont'd*

Cal Kit SISO 2.5 - 50 ppm

kit

Blank

2.50 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
5.00 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
10.00 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
15.00 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
20.00 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
25.00 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
50.00 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane

Calibration kit for total sulfur by weight from di-*n*-butylsulfide in isooctane 2.5-50 ppm range. Set of eight 1mL pre-scored ampuls.
cat. # 33037 (kit)

Check Standard SISO 30

30 ppm total sulfur by weight from di-*n*-butylsulfide in isooctane. Set of five 1mL pre-scored ampuls.

cat. # 33038 (ea.)

Cal Kit SISO 50 - 1000 ppm

kit

Blank

50 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
75 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
100 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
250 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
500 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
1000 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane

Calibration kit for total sulfur by weight from di-*n*-butylsulfide in isooctane 50-1000 ppm range. Set of seven 1mL pre-scored ampuls.
cat. # 33039 (kit)

Check Standard SISO 300

300 ppm total sulfur by weight from di-*n*-butylsulfide in isooctane. Set of five 1mL pre-scored ampuls.

cat. # 33040 (ea.)

Cal Kit SISO 1000 - 6000

kit

Blank

1000 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
1500 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
2000 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
4000 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane
6000 w/w ppm total sulfur from di-*n*-butylsulfide in isooctane

Calibration kit for total sulfur by weight from di-*n*-butylsulfide in isooctane 1000 - 6000 ppm range. Set of six 1mL pre-scored ampuls.
cat. # 33041 (kit)

Check Standard SISO 3000

3000 ppm total sulfur by weight from di-*n*-butylsulfide in isooctane. Set of five 1mL pre-scored ampuls.

cat. # 33042 (ea.)

Total Sulfur & Total Nitrogen in Isooctane Calibration Kits **new!**

ASTM Methods D3120, D4045, D4629, D5453, D5762, D6069, D6920

Cal Kit SNISO 0.125 - 5.0

kit

Blank

0.125 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
0.25 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
0.50 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
1.00 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
2.50 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
5.00 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane

Set of seven 1mL pre-scored amber ampuls.
cat. # 33057 (kit)

Cal Kit SNISO 5.0 - 50.0

kit

Blank

5.00 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
10.0 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
25.0 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
50.0 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane

Set of five 1mL pre-scored amber ampuls.
cat. # 33058 (kit)

Cal Kit SNISO 50.0 - 1000

kit

Blank

50.0 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
75.0 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
100 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
250 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
500 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane
1000 w/w ppm total sulfur from thiophene & total nitrogen from pyridine in isooctane

Set of seven 1mL pre-scored amber ampuls.
cat. # 33059 (kit)

Sulfur in Mineral Oil Calibration Kits and Check Standards

new!

ASTM Methods D2622, D3120, D4045, D4294, D5453, D6212, D6313, D6428, D6445, D7039

Cal Kit SMO 2 - 20

kit

Blank
 2.00 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 5.00 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 7.00 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 10.00 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 15.00 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 20.00 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil

Set of seven 100mL bottles.

cat. # 33063 (kit)

Cal Kit SMO 1000 - 25000

kit

Blank
 1000 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 2500 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 5000 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 1.00% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 1.50% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 2.00% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 2.50% total sulfur by weight from di-*n*-butylsulfide in mineral oil

Set of eight 100mL bottles.

cat. # 33069 (kit)

please note

These petroleum standards are gravimetrically prepared, NIST-traceable by weight, and verified by one or more analytical methods.

Check Standard SMO 11

11.0 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil.
 1 liter bottle.

cat. # 33064 (ea.)

Check Standard SMO 3000

3000 w/w ppm total sulfur from di-*n*-butylsulfide. 1 liter bottle.

cat. # 33070 (ea.)

Cal Kit SMO 10 - 100

kit

Blank
 10.0 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 25.0 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 50.0 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 100 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil

Set of five 100mL bottles.

cat. # 33065 (kit)

Cal Kit SMO 25000 - 50000

kit

Blank
 2.50% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 3.00% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 3.50% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 4.00% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 4.50% total sulfur by weight from di-*n*-butylsulfide in mineral oil
 5.00% total sulfur by weight from di-*n*-butylsulfide in mineral oil

Set of seven 100mL bottles.

cat. # 33071 (kit)

Check Standard SMO 30

30.0 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil.
 1 liter bottle.

cat. # 33066 (ea.)

Check Standard SMO 37000

3.70% total sulfur by weight from di-*n*-butylsulfide in mineral oil.
 1 liter bottle.

cat. # 33072 (ea.)

Cal Kit SMO 100 - 1000

kit

Blank
 100 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 200 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 300 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 400 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 500 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 600 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 750 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil
 1000 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil

Set of nine 100mL bottles.

cat. # 33067 (kit)

Check Standard SMO 350

350 w/w ppm total sulfur from di-*n*-butylsulfide in mineral oil.
 1 liter bottle.

cat. # 33068 (ea.)

ANALYTICAL REFERENCE MATERIALS | OTHER MATERIALS