

ASTM

PETROCHEMICAL CALIBRATION MIXTURE #1**ASTM D2887-93**

6% w/w	F2274	n-Hexane (C6)	110-54-3
6% w/w	F2184	n-Heptane (C7)	142-82-5
8% w/w	F2413	n-Octane (C8)	111-65-9
8% w/w	F1099	n-Nonane (C9)	111-84-2
12% w/w	F2182	n-Decane (C10)	124-18-5
12% w/w	F2415	n-Undecane (C11)	1120-21-4
12% w/w	F2000	n-Dodecane (C12)	112-40-3
12% w/w	F2197	n-Tetradecane (C14)	629-59-4
10% w/w	F2185	n-Hexadecane (C16)	544-76-3
5% w/w	F2188	n-Octadecane (C18)	593-45-3
2% w/w	F2183	n-Eicosane (C20)	112-95-5
2% w/w	F2198	n-Tetracosane (C24)	646-31-1
1% w/w	F2196	n-Octacosane (C28)	630-02-4
1% w/w	O-2095	n-Dotriacontane (C32)	544-85-4
1% w/w	O-2128	n-Hexatriacontane (C36)	2216-34-4
1% w/w	O-2261	n-Tetracontane (C40)	4181-95-7
1% w/w	O-2266	n-Tetratetracontane (C44)	1098-22-8

Mixture of the above - (17 components)

PCM-1M	5mL Ampule
PCM-1RPM	5x1mL Ampules
PCM-1JM	1mL Ampule

INTERNAL STANDARDS**ASTM D3257-93**

F2326	5g	Cyclohexanone	108-94-1
F2326AS	5mL	2000ug/mL Isooctane (Ampule)	
F2326ARPS	5x1mL	2000ug/mL Isooctane (Ampule)	
F2326AJS	1mL	2000ug/mL Isooctane (Ampule)	

INTERNAL STANDARDS**ASTM D3525-93**

F2185	2g	n-Hexadecane	544-76-3
F2185S	5mL	100ug/mL Methylene chloride (Ampule)	
F2185RPS	5x1mL	100ug/mL Methylene chloride (Ampule)	
F2185JS	1mL	100ug/mL Methylene chloride (Ampule)	
F2185AS	5mL	400ug/mL Cyclohexane (Ampule)	
F2185ARPS	5x1mL	400ug/mL Cyclohexane (Ampule)	
F2185AJS	1mL	400ug/mL Cyclohexane (Ampule)	

F2197	5g	n-Tetradecane	629-59-4
F2197S	5mL	100ug/mL Methylene chloride (Ampule)	
F2197RPS	5x1mL	100ug/mL Methylene chloride (Ampule)	
F2197JS	1mL	100ug/mL Methylene chloride (Ampule)	

BENZENE AND HYDROCARBON STANDARDS**ASTM D4367-89**

F4	5g	Benzene	71-43-2
F704	5g	2-Butanone	78-93-3
F1099	5g	n-Nonane	111-84-2
F2189	5g	2,2,4-Trimethylpentane	540-84-1

THIOPHENE STANDARDS**ASTM D4735-91**

F2466	2g	Thiophene	110-02-1
F2466S	5mL	100ug/g Benzene (Ampule)	
F2466RPS	5x1mL	100ug/g Benzene (Ampule)	
F2466JS	1mL	100ug/g Benzene (Ampule)	

INTERNAL STANDARDS**ASTM D4773-93**

O-407	10g	n-Butyl acetate	123-86-4
F7	5g	Chlorobenzene	108-90-7

OXYGENATES IN GASOLINE**ASTM D4815-93**

2% w/w	O-141	tert-Amyl alcohol	75-85-4
15% w/w	F2461	tert-Amyl methyl ether	994-05-8
2% w/w	F2451	n-Butyl alcohol	71-36-3
2% w/w	O-144	sec-Butyl alcohol	78-92-2
10% w/w	O-145	tert-Butyl alcohol	75-65-0
15% w/w	F2462	tert-Butyl ethyl ether	637-92-3
15% w/w	F909	tert-Butyl methyl ether	1634-04-4
10% w/w	F979	Ethyl alcohol	64-17-5
2% w/w	F980	Isobutyl alcohol	78-83-1
2% w/w	O-168	Isopropyl alcohol	67-63-0
13% w/w	O-573	Isopropyl ether	108-20-3
10% w/w	F2453	Methyl alcohol	67-56-1
2% w/w	O-167	Propyl alcohol	71-23-8

Mixture of the above - (13 components)

OG4815-1M	5mL Ampule
OG4815-1RPM	5x1mL Ampules
OG4815-1JM	1mL Ampule

INTERNAL STANDARD**ASTM D4815-93**

O-567	1g	1,2-Dimethoxyethane	110-71-4
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INTERNAL STANDARD**ASTM D5008-93**

O-152	10g	2-Ethyl-1-butanol	97-95-0
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INTERNAL STANDARDS**ASTM D5060-90**

F2415	5g	N-Undecane	1120-21-4
F2415S	5mL	1000ug/mL Methanol	
F2415RPS	5x1mL	1000ug/mL Methanol (Ampule)	
F2415JS	1mL	1000ug/mL Methanol (Ampule)	

INTERNAL STANDARDS**ASTM D5135-93**

F2184	5g	n-Heptane	142-82-5
F2184S	5mL	100ug/mL Methanol	
F2184RPS	5x1mL	100ug/mL Methanol (Ampule)	
F2184JS	1mL	100ug/mL Methanol (Ampule)	

DETECTOR RESPONSE TEST MIXTURE**ASTM D5307-92**

F2182	n-Decane	124-18-5
F2415	n-Undecane	1120-21-4
F2000	n-Dodecane	112-40-3
O-2273	n-Tridecane	629-50-5
F2197	n-Tetradecane	629-59-4
O-2238	n-Pentadecane	629-62-9
F2185	n-Hexadecane	544-76-3
O-2110	n-Heptadecane	629-78-7
F2188	n-Octadecane	593-45-3
F2183	n-Eicosane	112-95-5
F2198	n-Tetracosane	646-31-1
F2196	n-Octacosane	630-02-4
O-2095	n-Dotriacontane	544-85-4
O-2128	n-Hexatriacontane	2216-34-4
O-2261	n-Tetracontane	4181-95-7
O-2266	n-Tetratetracontane	7098-22-8

6.25% w/w of each of the above - (16 components)

DRT5307-1M	5mL
DRT5307-1RPM	5x1mL Ampules
DRT5307-1JM	1mL Ampule

COLUMN RESOLUTION TEST MIXTURE**ASTM D5307-92 & ASTM D2887-93**

F2185	n-Hexadecane	544-76-3
F2188	n-Octadecane	593-45-3

100ug/mL in n-Octane - (2 components)

CRT5307-1M	5mL
CRT5307-1RPM	5mL Ampules
CRT5307-1JM	5mL Ampule

INTERNAL STANDARDS

ASTM D5442-93

F2185	2g	n-Hexadecane	544-76-3
F2185S	5mL	100ug/mL Methylene chloride (Ampule)	
F2185RPS	5x1mL	100ug/mL Methylene chloride (Ampule)	
F2185JS	1mL	100ug/mL Methylene chloride (Ampule)	
F2185AS	5mL	400ug/mL Cyclohexane (Ampule)	
F2185ARPS	5x1mL	400ug/mL Cyclohexane (Ampule)	
F2185AJS	1mL	400ug/mL Cyclohexane (Ampule)	

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UST

Weathered Standards

UNLEADED GASOLINE STANDARDS

5000ug/mL in Methanol

CSRGO-601-1JS Unweathered	1mL
CSRGO-602-1JS 25% Weathered	1mL
CSRGO-603-1JS 50% Weathered	1mL
CSRGO-604-1JS 75% Weathered	1mL

DIESEL FUEL #2 STANDARDS

5000ug/mL in Methylene chloride

CSRGO-611-1JS Unweathered	1mL
CSRGO-612-1JS 25% Weathered	1mL
CSRGO-613-1JS 50% Weathered	1mL
CSRGO-614-1JS 75% Weathered	1mL

KEROSENE STANDARDS

5000ug/mL in Methylene chloride

CSRGO-621-1JS Unweathered	1mL
CSRGO-622-1JS 25% Weathered	1mL
CSRGO-623-1JS 50% Weathered	1mL
CSRGO-624-1JS 75% Weathered	1mL

MINERAL SPIRITS STANDARDS

5000ug/mL in Methylene chloride

CSRGO-701-1JS Unweathered	1mL
CSRGO-702-1JS 25% Weathered	1mL
CSRGO-703-1JS 50% Weathered	1mL
CSRGO-704-1JS 75% Weathered	1mL

WEATHERED HYDROCARBONS KITS

Unweathered Hydrocarbons
25% Weathered
50 % Weathered
75 % Weathered

1mL of each of the Gasoline Standards - (4 component Kit)
CSRGK-601S KIT

1mL of each of the Diesel Standards - (4 component Kit)
CSRGK-611S KIT

1mL of each of the Kerosene Standards - (4 component Kit)
CSRGK-621S KIT

1mL of each of the Mineral Spirit Standards - (4 component Kit)
CSRGK-701S KIT

FUEL STANDARDS FOR UST TESTING

500ug/mL in Methanol

CSRGO-600-1JS Unleaded Gasoline	1mL
CSRGO-610-1JS #2 Diesel Fuel	1mL

2500ug/mL in Methanol

CSRGO-605-1JS Composite Unleaded Gasoline*	1mL
CSRGO-661-1JS 100 Octane Aviation Fuel	1mL
CSRGO-615-1JS Composite #2 Diesel Fuel*	1mL
CSRGO-625-1JS Composite Kerosene*	1mL

5000ug/mL in Methylene chloride

CSRGO-671-1JS Commercial Jet Fuel A	1mL
CSRGO-631-1JS Fuel Oil #4	1mL
CSRGO-641-1JS Fuel Oil #5	1mL
CSRGO-651-1JS Fuel Oil #6	1mL
CSRGO-691-1JS JP-5 Military Fuel	1mL

50,000ug/mL in Methylene chloride

CSRGO-606-1JS Composite Unleaded Gasoline*	1mL
CSRGO-662-1JS 100 Octane Aviation Fuel	1mL
CSRGO-616-1JS Composite #2 Diesel Fuel*	1mL
CSRGO-626-1JS Composite Kerosene*	1mL
CSRGO-672-1JS Commercial Jet Fuel A	1mL
CSRGO-632-1JS Fuel Oil #4	1mL
CSRGO-642-1JS Fuel Oil #5	1mL
CSRGO-652-1JS Fuel Oil #6	1mL
CSRGO-692-1JS JP-5 Military Fuel	1mL

*Composite standards are prepared from multiple sources of fuel. All other standards are single source samples.

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