

ASTM Methods

ASTM D664 - 07

Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration

This test method covers procedures for the determination of acidic constituents in petroleum products and lubricants soluble or nearly soluble in mixtures of toluene and propan-2-ol. It is applicable for the determination of acids whose dissociation constants in water are larger than 10⁻⁹; extremely weak acids whose dissociation constants are smaller than 10⁻⁹ do not interfere. Salts react if their hydrolysis constants are larger than 10⁻⁹. The range of acid numbers included in the precision statement is 0.1 mg/g KOH to 150 mg/g KOH.

Solvent - 3 components		1 000 ml		Ref : F110211	Price : CDE
Isopropanol (2-propanol) 49.5%	CAS:67-63-0	Toluene	50% CAS:108-88-3	Water, ion-free	0.5% CAS:7732-18-5
Titrant - Solvent : Isopropanol		1 000 ml		Ref : F110221	Price : DB
Potassium Hydroxide		0.1 M			

ASTM D2887 – 06a

Standard Test Method for Boiling Range Distribution of Petroleum Fractions by Gas Chromatography

This test method covers the determination of the boiling range distribution of petroleum products. The test method is applicable to petroleum products and fractions having a final boiling point of 538°C (1000°F) or lower at atmospheric pressure as measured by this test method. This test method is limited to samples having a boiling range greater than 55°C (100°F), and having a vapor pressure sufficiently low to permit sampling at ambient temperature.

Fuel Oil Degradation/Retention Time Mix C17-C20 – 4 components					
n-Heptadecane (C17)	CAS:629-78-7	Phytane (C20)	CAS:638-36-8	Pristane (C19)	CAS:1921-70-6
n-Octadecane (C18)	CAS:593-45-3				
Solvent : Dichloromethane/Carbon disulfide (1/1)		ampoule 1 ml	2 000 µg/ml	Ref : F110261	Price : DF

Column Test – 2 components

n-Hexadecane (C16)	CAS:544-76-3	1 % w/v	n-Octadecane (C18)	CAS:593-45-3	1 % w/v
Solvent : n-Octane		ampoule 1 ml		Ref : F110051	Price : FA

Column Test Mixture - 17 components

n-Hexane (C6)	CAS:110-54-3	6 % wt	n-Octadecane (C18)	CAS:593-45-3	5 % wt
n-Heptane (C7)	CAS:142-82-5	6 % wt	n-Eicosane (C20)	CAS:112-95-8	2 % wt
n-Octane (C8)	CAS:111-65-9	8 % wt	n-Tetracosane (C24)	CAS:646-31-1	2 % wt
n-Nonane (C9)	CAS:111-84-2	8 % wt	n-Octacosane (C28)	CAS:630-02-4	1 % wt
n-Decane (C10)	CAS:124-18-5	12 % wt	n-Dotriacontane (C32)	CAS:544-85-4	1 % wt
n-Undecane (C11)	CAS:1120-21-4	12 % wt	n-Hexatriacontane (C36)	CAS:630-06-8	1 % wt
n-Dodecane (C12)	CAS:112-40-3	12 % wt	n-Tetracontane (C40)	CAS:4181-95-7	1 % wt
n-Tetradecane (C14)	CAS:629-59-4	12 % wt	n-Tetratetracontane (C44)	CAS:7098-22-8	1 % wt
n-Hexadecane (C16)	CAS:544-76-3	10 % wt			
		ampoule 1 ml		Ref : F112171	Price : EEA

Calibration Mixture C5-C44 – 18 components

n-Pentane (C5)	CAS:109-66-0	n-Undecane (C11)	CAS:1120-21-4	n-Tetracosane (C24)	CAS:646-31-1
n-Hexane (C6)	CAS:110-54-3	n-Dodecane (C12)	CAS:112-40-3	n-Octacosane (C28)	CAS:630-02-4
n-Heptane (C7)	CAS:142-82-5	n-Tetradecane (C14)	CAS:629-59-4	n-Dotriacontane (C32)	CAS:544-85-4
n-Octane (C8)	CAS:111-65-9	n-Hexadecane (C16)	CAS:544-76-3	n-Hexatriacontane (C36)	CAS:630-06-8
n-Nonane (C9)	CAS:111-84-2	n-Octadecane (C18)	CAS:593-45-3	n-Tetracontane (C40)	CAS:4181-95-7
n-Decane (C10)	CAS:124-18-5	n-Eicosane (C20)	CAS:112-95-8	n-Tetratetracontane (C44)	CAS:7098-22-8
Solvent : Carbon disulfide		ampoule 1 ml	100 µg/ml	Ref : F110231	Price : GF

Hydrocarbon Window Defining Standard C8-C40 – 35 components

n-Octane (C8)	CAS:111-65-9	Pristane (C19)	CAS:1921-70-6	n-Triacontane (C30)	CAS:638-68-6
n-Nonane (C9)	CAS:111-84-2	n-Eicosane (C20)	CAS:112-95-8	n-Hentriacontane (C31)	CAS:630-04-6
n-Decane (C10)	CAS:124-18-5	Phytane (C20)	CAS:638-36-8	n-Dotriacontane (C32)	CAS:544-85-4
n-Undecane (C11)	CAS:1120-21-4	n-Heneicosane (C21)	CAS:629-94-7	n-Tritriacontane (C33)	CAS:630-05-7
n-Dodecane (C12)	CAS:112-40-3	n-Docosane (C22)	CAS:629-97-0	n-Tetracontane (C34)	CAS:14167-59-0
n-Tridecane (C13)	CAS:629-50-5	n-Tricosane (C23)	CAS:638-67-5	n-Pentatriacontane (C35)	CAS:630-07-9
n-Tetradecane (C14)	CAS:629-59-4	n-Tetracosane (C24)	CAS:646-31-1	n-Hexatriacontane (C36)	CAS:630-06-8
n-Pentadecane (C15)	CAS:629-62-9	n-Pentacosane (C25)	CAS:629-99-2	n-Heptatriacontane (C37)	CAS:7194-84-5
n-Hexadecane (C16)	CAS:544-76-3	n-Hexacosane (C26)	CAS:630-01-3	n-Octatriacontane (C38)	CAS:7194-85-6
n-Heptadecane (C17)	CAS:629-78-7	n-Heptacosane (C27)	CAS:593-49-7	n-Nonatriacontane (C39)	CAS:7194-86-7
n-Octadecane (C18)	CAS:593-45-3	n-Octacosane (C28)	CAS:630-02-4	n-Tetracontane (C40)	CAS:4181-95-7
n-Nonadecane (C19)	CAS:629-92-5	n-Nonacosane (C29)	CAS:630-03-5		
Solvent : Carbon disulfide/Dichloromethane (3/1)		ampoule 1 ml	500 µg/ml	Ref : F061935	Price : KF
		ampoule 5 ml	500 µg/ml	Ref : F110241	Price : DJA

ASTM D3606 - 07

Standard Test Method for Determination of Benzene and Toluene in Finished Motor and Aviation Gasoline by Gas Chromatography

This test method covers the determination of benzene and toluene in finished motor and aviation gasolines by gas chromatography.

Aromatics Quantitative Calibration Standards (without Internal Standard)

Kit of 2 Analytes - 7 ampoules X 10 ml

Solvent : Iso-octane [CAS 540-84-1]

Calibration range : Benzene [CAS 71-43-2]: 0.06-5.0 Toluene [CAS 108-88-3] : 0.5-20

Ampoule A	Benzene 5.00 %Vol + Toluene 20.00 %Vol + IO 75.00 %Vol	Ampoule E	Benzene 0.33 %Vol + Toluene 2.50 %Vol + IO 97.17 %Vol
Ampoule B	Benzene 2.50 %Vol + Toluene 15.00 %Vol + IO 82.50 %Vol	Ampoule F	Benzene 0.12 %Vol + Toluene 1.00 %Vol + IO 98.88 %Vol
Ampoule C	Benzene 1.25 %Vol + Toluene 10.00 %Vol + IO 88.75 %Vol	Ampoule G	Benzene 0.06 %Vol + Toluene 0.50 %Vol + IO 99.44 %Vol
Ampoule D	Benzene 0.67 %Vol + Toluene 5.00 %Vol + IO 94.33 %Vol		

Ref : F111805 Price : BCL

Aromatics Quantitative Calibration Standards (with Internal Standard)

Kit of 2 Analytes - 7 ampoules X 1 ml

Solvent : Iso-octane [CAS 540-84-1]

Calibration range : Benzene [CAS 71-43-2]: 0.06-5.0 Toluene [CAS 108-88-3] : 0.5-20

Internal Standard : Methyl ethyl ketone : 4% Vol.

Ampoule A	Benzene 4.80 %Vol + Toluene 19.20 %Vol + IO 72.00 %Vol	Ampoule E	Benzene 0.32 %Vol + Toluene 2.40 %Vol + IO 93.28 %Vol
Ampoule B	Benzene 2.40 %Vol + Toluene 14.40 %Vol + IO 79.20 %Vol	Ampoule F	Benzene 0.12 %Vol + Toluene 0.95 %Vol + IO 94.93 %Vol
Ampoule C	Benzene 1.20 %Vol + Toluene 9.60 %Vol + IO 85.20 %Vol	Ampoule G	Benzene 0.06 %Vol + Toluene 0.48 %Vol + IO 95.46 %Vol
Ampoule D	Benzene 0.64 %Vol + Toluene 4.80 %Vol + IO 90.56 %Vol		

Ref : F111806 Price :BAJ

ASTM D3710 - 95(2004)

Standard Test Method for Boiling Range Distribution of Gasoline and Gasoline Fractions by Gas Chromatography

This test method covers the determination of the boiling range distribution of gasoline and gasoline components. This test method is applicable to petroleum products and fractions with a final boiling point of 500°F (260°C) or lower as measured by this test method.

Hydrocarbons Calibration Standard - 17 components

n-Pentane (C5)	CAS:109-66-0	8.00 % wt	n-Pentadecane (C15)	CAS:629-62-9	2.50 % wt
n-Hexane (C6)	CAS:110-54-3	6.00 % wt	n-Butylbenzene	CAS:104-51-8	4.00 % wt
n-Heptane (C7)	CAS:142-82-5	10.00 % wt	2,4-Dimethylpentane	CAS:108-08-7	6.00 % wt
n-Octane (C8)	CAS:111-65-9	6.00 % wt	2-Methylbutane	CAS:78-78-4	10.00 % wt
n-Decane (C10)	CAS:124-18-5	4.00 % wt	2-Methylpentane	CAS:107-83-5	6.00 % wt
n-Dodecane (C12)	CAS:112-40-3	3.50 % wt	n-Propylbenzene	CAS:103-65-1	5.00 % wt
n-Tridecane (C13)	CAS:629-50-5	2.50 % wt	Toluene	CAS:108-88-3	11.00 % wt
n-Tetradecane (C14)	CAS:629-59-4	2.50 % wt	p-Xylene	CAS:106-42-3	13.00 % wt

ampoule 1 ml

Ref : F110421 Price : BJA

ASTM D3798 - 03

Standard Test Method for Analysis of p-Xylene by Gas Chromatography

This test method covers the determination of known hydrocarbon impurities in, and the purity of p-xylene by gas chromatography (GC). It is generally meant for the analysis of p-xylene of 99 % or greater purity. Impurity concentrations that can be measured range from 0.001 to 1.000 weight %.

p-Xylene Impurity Standard - 10 components

Benzene	CAS:71-43-2	0.15 % wt	n-Propylbenzene	CAS:103-65-1	0.15 % wt
Cumene	CAS:98-82-8	0.15 % wt	Toluene	CAS:108-88-3	0.15 % wt
Ethylbenzene	CAS :100-41-4	0.15 % wt	m-Xylene	CAS:108-38-3	0.15 % wt
n-Octane (C8)	CAS:111-65-9	0.15 % wt	o-Xylene	CAS:95-47-6	0.15 % wt
n-Pentane (C5)	CAS:109-66-0	0.15 % wt	p-Xylene	CAS:106-42-3	98.65 % wt

ampoule 1 ml

Ref : F110431 Price : HF

ASTM D4815 - 04

Standard Test Method for determination of ethers and alcohols in gasolines by gas chromatography

This test method covers the determination of ethers and alcohols in gasolines by gas chromatography. Specific compounds determined are methyl tert-butylether (MTBE), ethyl tert-butylether (ETBE), tert-amylmethylether (TAME), diisopropylether (DIPE), methanol, ethanol, isopropanol, n-propanol, isobutanol, tert-butanol, sec-butanol, n-butanol, and tert-pentanol (tert-amylalcohol)

Valve Timing Mixture - 4 components

Diisopropylether	CAS:108-20-3	Methyl-tert.butylether	CAS:1634-04-4	Methylcyclopentane	CAS:96-37-7
Ethyl-tert-butylether (ETBE)	CAS:637-92-3				

Solvent : n-Hexane (C6) 60 %wt

ampoule 1 ml

10 % wt

Ref : F111911

Price : BFA

Standard Solution - 5 components

Ethanol	CAS:64-17-5	2.85 % wt	Methyl-tert.butylether	CAS:1634-04-4	19.00 % wt
tert.-Butanol	CAS:75-65-0	0.10 % wt	tert-Pentanol	CAS:75-85-4	1.19 % wt
1,2-Dimethoxyethane	CAS:110-71-4	5.00 % wt			
Solvent : Iso-octane /Xylene (46.72/25.15)			ampoule 1 ml	Ref : F062175	Price : FA
			ampoule 10 ml	Ref : F111851	Price : BJA

Standard Solution - 5 components

tert.-Butanol	CAS:75-65-0	2.85 % wt	Methyl-tert.butylether	CAS:1634-04-4	14.25 % wt
Ethanol	CAS:64-17-5	0.10 % wt	tert-Pentanol	CAS:75-85-4	4.75 % wt
1,2-Dimethoxyethane	CAS:110-71-4	5.00 % wt			
Solvent : Iso-octane /Xylene (47.49/25. 57)			ampoule 1 ml	Ref : F062185	Price : GF
			ampoule 10 ml	Ref : F111861	Price : CBA

Standard Solution - 5 components

tert.-Butanol	CAS:75-65-0	5.70 % wt	Methyl-tert.butylether	CAS:1634-04-4	9.50 % wt
Ethanol	CAS:64-17-5	5.70 % wt	tert-Pentanol	CAS:75-85-4	2.38 % wt
1,2-Dimethoxyethane	CAS:110-71-4	5.00 % wt			
Solvent : Iso-octane /Xylene (46.62/25.11)			ampoule 1 ml	Ref : LM12085	Price : GF
			ampoule 10 ml	Ref : F111871	Price : CBA

Standard Solution - 5 components

tert.-Butanol	CAS:75-65-0	7.60 % wt	Methyl-tert.butylether	CAS:1634-04-4	4.75 % wt
Ethanol	CAS:64-17-5	8.55 % wt	tert-Pentanol	CAS:75-85-4	3.56 % wt
1,2-Dimethoxyethane	CAS:110-71-4	5.00 % wt			
Solvent : Iso-octane /Xylene (45.85/24.69)			ampoule 1 ml	Ref : F062205	Price : GF
			ampoule 10 ml	Ref : F111881	Price : CCA

Standard Solution - 5 components

tert.-Butanol	CAS:75-65-0	11.40 % wt	Methyl-tert.butylether	CAS:1634-04-4	0.10 % wt
Ethanol	CAS:64-17-5	11.40 % wt	tert-Pentanol	CAS:75-85-4	0.10 % wt
1,2-Dimethoxyethane	CAS:110-71-4	5.00 % wt			
Solvent : Iso-octane /Xylene (46.8/25.2)			ampoule 1 ml	Ref : LM12095	Price : GF
			ampoule 10 ml	Ref : F111891	Price : CCA

Qualitative Peak ID Mixture - 16 components

tert.-Amyl-methylether	CAS:994-05-8	7.30 % wt	Ethyl-tert-butylether	CAS:637-92-3	4.00 % wt
Benzene	CAS:71-43-2	5.00 % wt	Isobutanol	CAS:78-83-1	7.30 % wt
1-Butanol	CAS:71-36-3	7.30 % wt	Isopropanol	CAS:67-63-0	7.30 % wt
tert.-Butanol	CAS:75-65-0	7.30 % wt	Methanol	CAS:67-56-1	7.30 % wt
sec. Butylalcohol	CAS:78-92-2	4.00 % wt	Methyl-tert.butylether	CAS:1634-04-4	4.00 % wt
Diisopropylether	CAS:108-20-3	4.00 % wt	Methylcyclopentane	CAS:96-37-7	4.00 % wt
1,2-Dimethoxyethane	CAS:110-71-4	6.00 % wt	1-Propanol	CAS:71-23-8	7.30 % wt
Ethanol	CAS:64-17-5	7.30 % wt	tert-Pentanol	CAS:75-85-4	7.30 % wt
Solvent : Iso-Octane /Xylene (65/35)			ampoule 1 ml	Ref : F111901	Price : BEA

Oxygenated Quantitative Calibration Mixtures**Kit of 4 Analytes – 5 ampoules**

Calibration range : Ethanol [CAS 64-17-5] : 0.10-11.40 tert-Butanol [CAS 75-65-0] : 0.10 -11.40
Methyl tert butylether [CAS 1634 04 4] : 0.10-19.00 tert -Pentanol [CAS 75-85-4] : 0.10 - 4.79

Ampoule A	Ethanol	3.00 % wt	+ tert-Butanol	0.10 % wt	+ Methyl-tert.butyl ether	20.00 %wt	+ tert-Pentanol	1.25 % wt
Ampoule B	Ethanol	0.10 % wt	+ tert-Butanol	3.00 % wt	+ Methyl-tert.butyl ether	15.00 %wt	+ tert-Pentanol	5.00 % wt
Ampoule C	Ethanol	6.00 % wt	+ tert-Butanol	6.00 % wt	+ Methyl-tert.butyl ether	10.00 %wt	+ tert-Pentanol	2.50 % wt
Ampoule D	Ethanol	9.00 % wt	+ tert-Butanol	8.00 % wt	+ Methyl-tert.butyl ether	5.00 %wt	+ tert-Pentanol	3.75 % wt
Ampoule E	Ethanol	12.00 % wt	+ tert-Butanol	12.00 % wt	+ Methyl-tert.butyl ether	0.10 %wt	+ tert-Pentanol	0.10 % wt
Solvent : Iso-Octane /Xylene (65/35)			5 ampoules X 1 ml		Ref : F062215		Price : DF	
			5 ampoules X 10 ml		Ref : F111801		Price : BCA	

Oxygenated Quantitative Calibration Mixture (with Internal Standard)**Kit of 4 Analytes – 5 ampoules**

Calibration range : Ethanol : 0.10-11.40 Butanol : 0.10-11.40 Methyl t-butylether : 0.10–19.00 Pentanol : 0.10-4.79
Internal Standard : 1,2-Dimethoxyethane: 5 % wt

Ampoule A	Ethanol	2.85 % wt	+ tert-Butanol	0.10 %wt	+ Methyl-tert butyl ether	19.00 % wt	+ tert-Pentanol	1.19 % wt	Total Oxygenates & int. standard
Ampoule B	Ethanol	0.10 % wt	+ tert-Butanol	2.85 %wt	+ Methyl-tert butyl ether	14.25 % wt	+ tert-Pentanol	4.75 % wt	28.14 % wt
Ampoule C	Ethanol	5.70 % wt	+ tert-Butanol	5.70 %wt	+ Methyl-tert butyl ether	9.50 % wt	+ tert-Pentanol	2.38 % wt	28.28 % wt
Ampoule D	Ethanol	8.55 % wt	+ tert-Butanol	7.60 %wt	+ Methyl-tert butyl ether	4.75 % wt	+ tert-Pentanol	3.56 % wt	29.46 % wt
Ampoule E	Ethanol	11.40 % wt	+ tert-Butanol	11.40 %wt	+ Methyl-tert butyl ether	0.10 % wt	+ tert-Pentanol	0.10 % wt	28.00 % wt
Solvent : Iso-Octane /Xylene (65/35)			5 ampoules X 1 ml		Ref : F062225		Price : BFE		
			5 ampoules X 10 ml		Ref : F111807		Price : FDK		

ASTM D5186 – 03

Standard Test Method which measures the total aromatic and PNA content in Diesel and jet Fuel

Standard Test Method for Determination of Aromatic Content and Polynuclear Aromatic Content of Diesel Fuels and Aviation Turbine Fuels by Supercritical Fluid Chromatography. This test method covers the determination of the total amounts of monoaromatic and polynuclear aromatic hydrocarbon compounds in motor diesel fuels, aviation turbine fuels, and blend stocks by supercritical fluid chromatography (SFC).

Performance Control Mixture – 4 components

n-Hexadecane (C16)	CAS:544-76-3	75%	Tetralin	CAS:119-64-2	3%
Naphthalene	CAS:91-20-3	2%	Toluene	CAS:108-88-3	20%
ampoule 1 ml			Ref: F111921 Price : BFF		

ASTM D5307 – 97(2007)

Standard Test Method for Determination of Boiling Range Distribution of Crude Petroleum by Gas Chromatography

This test method covers the determination of the boiling range distribution of water-free crude petroleum through 538°C (1000°F). Material boiling above 538°C is reported as residue. This test method is applicable to whole crude samples, that can be solubilized in a solvent to permit sampling by means of a microsyringe

Column Resolution Test Mix C16-C18 – 2 components

n-Hexadecane (C16)	CAS:544-76-3	n-Octadecane (C18)	CAS:593-45-3		
Solvent : n-Octane		ampoule 1 ml	1 % wt	Ref: F111951	Price : EF

Petrochemical Internal Standard C14-C17 – 4 components

1-Tetradecene (C14)	CAS:1120-36-1	n-Hexadecane (C16)	CAS:544-76-3	n-Heptadecane (C17)	CAS:629-78-7
n-Pentadecane (C15)	CAS:629-62-9				
		bottle 40 ml	25 % wt	Ref: F111941	Price : EEA

Petrochemical Quantitative Standard C10-C44 – 16 components

n-Decane (C10)	CAS:124-18-5	n-Hexadecane (C16)	CAS:544-76-3	n-Dotriacontane (C32)	CAS:544-85-4
n-Undecane (C11)	CAS:1120-21-4	n-Heptadecane (C17)	CAS:629-78-7	n-Hexatriacontane (C36)	CAS:630-06-8
n-Dodecane (C12)	CAS:112-40-3	n-Octadecane (C18)	CAS:593-45-3	n-Tetracontane (C40)	CAS:4181-95-7
n-Tridecane (C13)	CAS:629-50-5	n-Eicosane (C20)	CAS:112-95-8	n-Tetratetracontane (C44)	CAS:7098-22-8
n-Tetradecane (C14)	CAS:629-59-4	n-Tetracosane (C24)	CAS:646-31-1		
n-Pentadecane (C15)	CAS:629-62-9	n-Octacosane (C28)	CAS:630-02-4		
Solvent : Carbon disulfide		ampoule 1 ml	5 000 µg/ml	Ref: F111931	Price : BGA

ASTM D5442 – 93(2003)e1

Standard Test Method for Analysis of Petroleum Waxes by Gas Chromatography

This test method covers the quantitative determination of the carbon number distribution of petroleum waxes in the range from n-C17 through n-C44 by gas chromatography using internal standardization. In addition, the content of normal and non-normal hydrocarbons for each carbon number is also determined.

Column Resolution Test Mix C20-C24 - 2 components

n-Eicosane (C20)	CAS:112-95-8	n-Tetracosane (C24)	CAS:646-31-1		
Solvent : Cyclohexane		ampoule 1 ml	0.05 % wt	Ref: F112011	Price : EF

Quantitative Linearity Wax Mixture C16-C44 – 12 components

n-Hexadecane (C16)	CAS:544-76-3	n-Tetracosane (C24)	CAS:646-31-1	n-Dotriacontane (C32)	CAS:544-85-4
n-Octadecane (C18)	CAS:593-45-3	n-Hexacosane (C26)	CAS:630-01-3	n-Hexatriacontane (C36)	CAS:630-06-8
n-Eicosane (C20)	CAS:112-95-8	n-Octacosane (C28)	CAS:630-02-4	n-Tetracontane (C40)	CAS:4181-95-7
n-Docosane (C22)	CAS:629-97-0	n-Triacontane (C30)	CAS:638-68-6	n-Tetratetracontane (C44)	CAS:7098-22-8
Solvent : Cyclohexane		ampoule 1 ml	0.01 % wt	Ref: F111991	Price : FA

Retention Time Wax Mixture C16-C44 – 12 components

n-Hexadecane (C16)	CAS:544-76-3	n-Tetracosane (C24)	CAS:646-31-1	n-Dotriacontane (C32)	CAS:544-85-4
n-Octadecane (C18)	CAS:593-45-3	n-Hexacosane (C26)	CAS:630-01-3	n-Hexatriacontane (C36)	CAS:630-06-8
n-Eicosane (C20)	CAS:112-95-8	n-Octacosane (C28)	CAS:630-02-4	n-Tetracontane (C40)	CAS:4181-95-7
n-Docosane (C22)	CAS:629-97-0	n-Triacontane (C30)	CAS:638-68-6	n-Tetratetracontane (C44)	CAS:7098-22-8
Solvent : Cyclohexane		ampoule 1 ml	8.3 % wt	Ref: F112001	Price : DEA

ASTM D5580– 02(2007)

Standard Test Method for Determination of Benzene, Toluene, Ethylbenzene, p/m-Xylene, o-Xylene, C9 and Heavier Aromatics, and Total Aromatics in Finished Gasoline by Gas Chromatography

This test method covers the determination of benzene, toluene, ethylbenzene, the xylenes, C9 and heavier aromatics, and total aromatics in finished motor gasoline by gas chromatography

Selectivity Check Standard – 1 component

n-Dodecane (C12) 1.5% wt	CAS:112-40-3				
Solvent : Iso-octane		ampoule	1 ml	Ref : F112141	Price : DF

Standard Solution - 2 components

2-Bromo-1-chloropropane	CAS:3017-95-6	Fluorobenzene	CAS:462-06-6		
Solvent : Methanol purge & trap		ampoule	1 ml	2 000 µg/ml	Ref : F112761 Price : DF

Standard Solution - 2 components

2-Bromo-1-chloropropane	CAS:3017-95-6	1-Chloro-2-fluorobenzene	CAS:348-51-6		
Solvent : Methanol purge & trap		ampoule	1 ml	2 000 µg/ml	Ref : F112771 Price : DF

Standard Solution - 6 components

Bromomethane	CAS:74-83-9	Chloromethane	CAS:74-87-3	Fluorotrichloromethane	CAS:75-69-4
Chloroethane	CAS:75-00-3	Dichlorodifluoromethane	CAS:75-71-8	Vinylchloride	CAS:75-01-4
Solvent : Methanol purge & trap		ampoule	1 ml	200 µg/ml	Ref : F112901 Price : FA
		ampoule	1 ml	2000 µg/ml	Ref : F112911 Price : HF

Valve Timing Calibration Mix (without Internal Standard) – 4 components

Benzene	CAS:71-43-2	5.00 % wt	Toluene	CAS:108-88-3	5.00 % wt
Ethylbenzene	CAS:100-41-4	10.00 % wt	o-Xylene	CAS:95-47-6	10.00 % wt
Solvent : Iso-octane 70% wt		ampoule	1 ml	Ref : F062235	Price : EF
		ampoule	10 ml	Ref : F112121	Price : BEA

Valve Timing Calibration Mix (with Internal Standard) – 5 components

Benzene	CAS:71-43-2	4.50 % wt	Toluene	CAS:108-88-3	4.50 % wt
Ethylbenzene	CAS:100-41-4	9.00 % wt	o-Xylene	CAS:95-47-6	9.00 % wt
2-Hexanone	CAS:591-78-6	10.00 %wt			
Solvent : Iso-octane 63 %wt		ampoule	1 ml	Ref : F062245	Price : EF
		ampoule	10 ml	Ref : F112131	Price : BEA

Aromatics Quantitative Calibration Mixes (without Internal Standard)

5 Analytes – 5 ampoules

Calibration range : Benzene [CAS 71-43-2] : 0.10-5.0 Toluene [CAS 108-88-3] : 1.00-15.00 o-Xylene [CAS 95-47-6] : 0.50-10.00
Ethylbenzene [CAS 100-41-4] : 0.50-10.00 1,2,4- Trimethylbenzene [CAS 95-63-6] : 0.50-10.00

Ampoule A	Benzene	0.10 % wt	+ Toluene	15.00 % wt	+ Ethyl Benzene	0.50 % wt	+ o-Xylene	1.00 % wt	+ 1,2,4-Trimethylbenzene	1.00 % wt
Ampoule B	Benzene	0.50 % wt	+ Toluene	10.00 % wt	+ Ethyl Benzene	1.00 % wt	+ o-Xylene	2.50 % wt	+ 1,2,4-Trimethylbenzene	10.00 % wt
Ampoule C	Benzene	1.00 % wt	+ Toluene	5.00 % wt	+ Ethyl Benzene	2.50 % wt	+ o-Xylene	10.00 % wt	+ 1,2,4-Trimethylbenzene	0.50 % wt
Ampoule D	Benzene	2.00 % wt	+ Toluene	2.50 % wt	+ Ethyl Benzene	5.00 % wt	+ o-Xylene	5.00 % wt	+ 1,2,4-Trimethylbenzene	5.00 % wt
Ampoule E	Benzene	5.00 % wt	+ Toluene	1.00 % wt	+ Ethyl Benzene	10.00 % wt	+ o-Xylene	0.50 % wt	+ 1,2,4-Trimethylbenzene	2.50 % wt

Solvent : Iso-Octane [CAS 540-84-1]		5 ampoules X	1 ml	Ref : F062255	Price : JA
		5 ampoules X	10 ml	Ref : F112021	Price : DCA

Aromatics Quantitative Calibration Mixes (with Internal Standard)

5 Analytes + 2-hexanone as internal standard – 5 ampoules

Internal standard : 2-hexanone [CAS 591-78-6] 10.00 % wt
Calibration range : Benzene [CAS 71-43-2] : 0.10-5.0 Toluene [CAS 108-88-3] : 1.00-15.00 o-Xylene [CAS 95-47-6] : 0.50-10.00
Ethylbenzene [CAS 100-41-4] : 0.50-10.00 1,2,4- Trimethylbenzene [CAS 95-63-6] : 0.50-10.00

Ampoule A	Benzene	0.09 %wt	+ Toluene	13.50 %wt	+ Ethyl Benzene	0.45 %wt	+ o-Xylene	0.90 %wt	+ 1,2,4-Trimethylbenzene	9.00 % wt
Ampoule B	Benzene	0.45 %wt	+ Toluene	9.00 %wt	+ Ethyl Benzene	0.90 %wt	+ o-Xylene	2.25 %wt	+ 1,2,4-Trimethylbenzene	0.45 % wt
Ampoule C	Benzene	0.90 %wt	+ Toluene	4.50 %wt	+ Ethyl Benzene	2.25 %wt	+ o-Xylene	9.00 %wt	+ 1,2,4-Trimethylbenzene	4.50 % wt
Ampoule D	Benzene	1.80 %wt	+ Toluene	2.25 %wt	+ Ethyl Benzene	4.50 %wt	+ o-Xylene	4.50 %wt	+ 1,2,4-Trimethylbenzene	2.25 % wt
Ampoule E	Benzene	4.50 %wt	+ Toluene	0.90 %wt	+ Ethyl Benzene	9.00 %wt	+ o-Xylene	0.45 %wt	+ 1,2,4-Trimethylbenzene	0.90 % wt

Solvent : Iso-Octane [CAS 540-84-1]		5 ampoules X	1 ml	Ref : F112071	Price : BCA
-------------------------------------	--	--------------	------	---------------	-------------

Daily Quality Control Standard (without Internal Standard) - 14 components

n-Hexane (C6)	CAS:110-54-3	12 %wt	Iso-octane	CAS:540-84-1	20 %wt
n-Heptane (C7)	CAS:142-82-5	20 %wt	Naphthalene	CAS:91-20-3	1 %wt
n-Octane (C8)	CAS:111-65-9	14 %wt	Toluene	CAS:108-88-3	9 %wt
n-Decane (C10)	CAS:124-18-5	10 %wt	1,2,4,5-Tetramethylbenzene	CAS:95-93-2	1 %wt
n-Dodecane (C12)	CAS:112-40-3	1 %wt	1,2,4-Trimethylbenzene	CAS:95-63-6	3 %wt
Benzene	CAS:71-43-2	1 %wt	o-Xylene	CAS:95-47-6	2 %wt
Ethylbenzene	CAS:100-41-4	2 %wt	p-Xylene	CAS:106-42-3	3 %wt
			ampoule 1 ml	Ref : F062265	Price : JF
			ampoule 10 ml	Ref : F112151	Price : DEA

Daily Quality Control Standard (with Internal Standard) - 15 components

n-Hexane (C6)	CAS:110-54-3	11 %wt	Naphthalene	CAS:91-20-3	1 %wt
n-Heptane (C7)	CAS:142-82-5	19 %wt	Toluene	CAS:108-88-3	8 %wt
n-Octane (C8)	CAS:111-65-9	14 %wt	1,2,4,5-Tetramethylbenzene	CAS:95-93-2	1 %wt
n-Decane (C10)	CAS:124-18-5	9 %wt	1,2,4-Trimethylbenzene	CAS:95-63-6	2 %wt
n-Tridecane (C13)	CAS:629-50-5	1 %wt	o-Xylene	CAS:95-47-6	1 %wt
Benzene	CAS:71-43-2	1 %wt	p-Xylene	CAS:106-42-3	2 %wt
Ethylbenzene	CAS:100-41-4	1 %wt	2-Hexanone	CAS:591-78-6	10 %wt
Iso-octane	CAS:540-84-1	19 %wt			
			ampoule 1 ml	Ref : F062275	Price : JF
			ampoule 10 ml	Ref : F112161	Price : DEA

Standard Solution - 54 components

Benzene	CAS:71-43-2	1,3-Dichlorobenzene	CAS:541-73-1	Naphthalene	CAS:91-20-3
Bromobenzene	CAS:108-86-1	1,4-Dichlorobenzene	CAS:106-46-7	n-Propylbenzene	CAS:103-65-1
Bromochloromethane	CAS:74-97-5	1,1-Dichloroethane	CAS:75-34-3	Styrene	CAS:100-42-5
Bromodichloromethane	CAS:75-27-4	1,2-Dichloroethane	CAS:107-06-2	1,1,1,2-Tetrachloroethane	CAS:630-20-6
Bromoform	CAS:75-25-2	1,1-Dichloroethene	CAS:75-35-4	1,1,2,2-Tetrachloroethane	CAS:79-34-5
n-Butylbenzene	CAS:104-51-8	cis-1,2-Dichloroethene	CAS:156-59-2	Tetrachloroethene	CAS:127-18-4
sec-Butylbenzene	CAS:135-98-8	trans-1,2-Dichloroethene	CAS:156-60-5	Toluene	CAS:108-88-3
tert-Butylbenzene	CAS:98-06-6	1,2-Dichloropropane	CAS:78-87-5	1,2,3-Trichlorobenzene	CAS:87-61-6
Carbon tetrachloride	CAS:56-23-5	1,3-Dichloropropane	CAS:142-28-9	1,2,4-Trichlorobenzene	CAS:120-82-1
Chlorobenzene	CAS:108-90-7	2,2-Dichloropropane	CAS:594-20-7	1,1,1-Trichloroethane	CAS:71-55-6
Chloroform	CAS:67-66-3	1,1-Dichloropropene	CAS:563-58-6	1,1,2-Trichloroethane	CAS:79-00-5
2-Chlorotoluene	CAS:95-49-8	cis-1,3-Dichloropropene	CAS:10061-01-5	Trichloroethene	CAS:79-01-6
4-Chlorotoluene	CAS:106-43-4	trans-1,3-Dichloropropene	CAS:10061-02-6	1,2,3-Trichloropropane	CAS:96-18-4
Dibromochloromethane	CAS:124-48-1	Ethylbenzene	CAS:100-41-4	1,2,4-Trimethylbenzene	CAS:95-63-6
1,2-Dibromo-3-chloropropane	CAS:96-12-8	Hexachlorobutadiene	CAS:87-68-3	1,3,5-Trimethylbenzene	CAS:108-67-8
1,2-Dibromoethane	CAS:106-93-4	Isopropylbenzene	CAS:98-82-8	o-Xylene	CAS:95-47-6
Dibromomethane	CAS:74-95-3	4-Isopropyltoluene	CAS:99-87-6	m-Xylene	CAS:108-38-3
1,2-Dichlorobenzene	CAS:95-50-1	Methylene chloride	CAS:75-09-2	p-Xylene	CAS:106-42-3
Solvent : Methanol purge & trap		ampoule 1 ml	2 000 µg/ml	Ref : F112781	Price : BDA

ASTM E1387 - 01

Standard Test Method for Ignitable Liquid Residues in Extracts from Fire Debris Samples by Gas Chromatography

This test method covers the identification of residues of ignitable liquids in extracts from fire debris samples. These materials also can be used for underground storage tank monitoring.

Column Resolution Check Mix - 13 components

n-Hexane (C6)	CAS:110-54-3	n-Hexadecane (C16)	CAS:544-76-3	Toluene	CAS:108-88-3
n-Octane (C8)	CAS:111-65-9	n-Octadecane (C18)	CAS:593-45-3	1,2,4-Trimethylbenzene	CAS:95-63-6
n-Decane (C10)	CAS:124-18-5	n-Eicosane (C20)	CAS:112-95-8	p-Xylene	CAS:106-42-3
n-Dodecane (C12)	CAS:112-40-3	2-Ethyltoluene	CAS:611-14-3		
n-Tetradecane (C14)	CAS:629-59-4	3-Ethyltoluene	CAS:620-14-4		
Solvent : Dichloromethane		ampoule 1 ml	2 000 µg/ml	Ref : F128941	Price : FA