



ASTM Methods

Method	ASTM Title	Column Description	Part No.
D1983	Standard Test Method for Fatty Acid Composition by Gas-Liquid Chromatography of Methyl Esters	30m x 0.25mm x 0.25µm SolGel-WAX	054796
		30m x 0.25mm x 0.25µm BP20	054427
D2245	Oils and oil acids in solvent-reducible paints	60m x 0.25mm x 0.25µm BPX70	054623
D2268	Standard Test Method for Analysis of High-Purity n-Heptane and Isooctane by Capillary GC	60m x 0.25mm x 0.50µm BP1	054812
D2306	Standard Test Method for C8 Aromatic Hydrocarbons by GC	60m x 0.25mm x 0.25µm SolGel-WAX	054791
		60m x 0.25mm x 0.25µm BP20	054428
D2360	Standard Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by GC	60m x 0.32mm x 0.25µm SolGel-WAX	054789
D2426	Standard Test Method for Butadiene Dimer and Styrene in Butadiene Concentrates by GC	30m x 0.53mm x 5.00µm BP1	054806
D2427	Standard test Method for Determination of C2 through C5 Hydrocarbons in Gasoline by GC	30m x 0.53mm x 5.00µm BP1	054806
D2456	Polyhydric alcohols in alkyd resin	30m x 0.53mm x 1.0µm BP20	054451
D2580	Phenols in water	30m x 0.32mm x 0.50µm BPX5	0541025
D2753	Oil and oil acids	60m x 0.25mm x 0.25µm BPX70	054623
D2800	FAME analysis	60m x 0.25mm x 0.25µm BPX70	054623
D2804	Standard Test Method for Purity of Methyl Ethyl Ketone by GC	30m x 0.53mm x 1.00µm BP20	054451
D2887	Standard Test Method for Boiling Range Distribution of Petroleum Fractions by GC	10m x 0.53mm x 2.65µm BPX1	054802
		5m x 0.53mm x 2.65µm BPX1	0548025
D2998	Polyhydric alcohols in alkyd resin	30m x 0.32mm x 1.0µm BP1	054813
D2999	Monopentaerythritol in commercial pentaerythritol	30m x 0.53mm x 1.0µm BP1	054090
D3009	Composition of turpentine	30m x 0.32mm x 0.50µm SolGel-WAX	054797
D3054	Standard Test Method for Analysis of Cyclohexane by GC	60m x 0.32mm x 0.50µm BP1	054069
D3168	Polymers in emulsion paints	30m x 0.32mm x 1.0µm BP1	054813
D3257	Standard Test Method for Aromatics in Mineral Spirits by GC	30m x 0.53mm x 3.0µm BP624	054836
D3271	Solvent analysis in paints	30m x 0.53mm x 1.0µm BP20	054451
D3304	PCBs in environmental materials	60m x 0.25mm x 0.25µm BPX5	054102
D3328	Comparison of waterborne petroleum oils	30m x 0.32mm x 3.0µm BP1	054073
D3329	Standard Test Method for Purity of Methyl Isobutyl Ketone by GC	30m x 0.53mm x 1.0µm BP20	054451
		30m x 0.53mm x 3.0µm BP624	054836
D3432	Standard Test Method for Unreacted Toluene	30m x 0.32mm x 1.0µm BP1	054810



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	Diisocyanates in Urethane Prepolymers and Coating Solutions by GC		
D3447	Standard Test Method for Purity of Halogenated Organic Solvents	30m x 0.53mm x 3.0µm BP624	054836
D3452	Identification of rubber	30m x 0.53mm x 1.0µm BP1	054090
D3457	FAME analysis	60m x 0.25mm x 0.25µm BPX70	054623
D3534	Standard Test Method for PCBs in Water	30m x 0.53mm x 1.5µm BPX5	0541348
D3545	Standard Test Method for Alcohol Content and Purity of Acetate Esters by GC	30m x 0.53mm x 3.0µm BP624	054836
D3687	Standard Test Method for Alcohol Content and Purity of Acetate Esters by GC	30m x 0.53mm x 1.0µm BP20	054451
D3695	Standard Test Method for Volatile Alcohols in Water by Direct Aqueous-Injection GC	30m x 0.53mm x 1.0µm BP20	054451
D3710	Boiling Range Distribution of Gasoline and Gasoline Fractions by GC	10m x 0.53mm x 2.65µm BPX1	054802
		5m x 0.53mm x 2.65µm BPX1	0548025
D3725	Fatty acids in drying oils	30m x 0.53mm x 0.50µm BPX70	054620
D3760	Standard Test Method for Analysis of Isopropylbenzene (Cumene) by GC	60m x 0.32mm x 0.25µm SolGel-WAX	054789
		60m x 0.32mm x 0.25µm BP20	054434
		60m x 0.32mm x 0.50µm BP1	054069
D3797	Standard Test Method for Analysis of o-Xylene by GC	60m x 0.32mm x 0.50µm SolGel-WAX	054792
D3798	Standard Test Method for Analysis of p-Xylene by GC	60m x 0.32mm x 0.50µm SolGel-WAX	054792
D3871	Standard Test Method for Purgeable Organic Compounds in Water Using Headspace Sampling	60m x 0.53mm x 3.0µm BP624	054838
D3893	Standard Test Method for Purity of Methyl Amyl Ketone and Methyl Isoamyl Ketone by Gas Chromatography	30m x 0.53mm x 3.0µm BP624	054836
D3962	Impurities in styrene	30m x 0.53mm x 1.0µm BP21(FFAP)	054478
D3973	Standard Test Method for Low-Molecular Weight Halogenated Hydrocarbons in Water	30m x 0.53mm x 3.0µm BP624	054836
D4059	PCB's in Insulating Liquids	60m x 0.25mm x 0.25µm BPX5	054102
D4415	Standard Test Method for Determination of Dimer in Acrylic Acid	30m x 0.32mm x 0.25µm SolGel-WAX	054788
D4443	Standard Test Method for Residual Vinyl Chloride Monomer Content in PPB Range in Vinyl Chloride Homo- and Co-Polymers by Headspace GC	30m x 0.53mm x 3.0µm BP624	054836
D4735	Standard Test Method for Determination of Trace Thiophene in Refined Benzene by GC	30m x 0.53mm x 0.5µm SolGel-WAX	054786
		30m x 0.53mm x 1.0µm BP21	054478
D4773	Standard Test Method for Propylene Gvcol	30m x 0.53mm x 5.00µm BP5	054196



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	Monomethyl Ether, Dipropylene Glycol Monomethyl Ether, and Propylene Glycol Monomethyl Ether Acetate		
D4806	Denatured Fuel Ethanol for Blending with Gasolines for use as Automotive Spark-Ignition Engine Fuel	100m x 0.25mm x 0.5 µm BP1 Uses Method D5501	054818
D4815	Determination of MTBE, ETBE, TAME, DIPE, tert-Amyl Alcohol & C1 to C4 Alcohols in Gasoline by GC	30m x 0.53mm x 2.6µm BP1	054819
D4864	Determination of Traces of Methanol in Propylene Concentrates by GC	15m x 0.53mm x 1.5µm BPX5	0541347
		15m x 0.53mm x 1.5µm BP5	054199
D4947	Standard Test Method for Chlordane and Heptachlor Residues in Indoor Air	30m x 0.53mm x 1.5µm BPX5	0541348
		30m x 0.53mm x 1.0µm BPX50	054772
D5060	Standard Test Method for Determining Impurities in High-Purity Ethylbenzene by GC	60m x 0.32mm x 0.5µm SolGel-WAX	054792
D5075	Standard Test Method for Nicotine in Indoor Air	30m x 0.32mm x 1.0µm BPX5	054153
D5134	Standard Test Method for Detailed Analysis of Petroleum Naphthas Through n-Nonane by Capillary GC	60m x 0.25mm x 0.5µm BP1	054812
D5135	Standard Test Method for Analysis of Styrene by Capillary GC	60m x 0.32mm x 0.50µm SolGel-WAX	054792
D5399	Standard Test Method for Boiling Point Distribution of Hydrocarbon Solvents by GC	10m x 0.53mm x 2.65µm BPX1	054802
D5441	Analysis of Methyl tert-Butyl Ether by GC	60m x 0.25mm x 0.5µm BP1	054812
		100m x 0.25mm x 0.5µm BP1	054818
D5442	Analysis of Petroleum Waxes by GC	25m x 0.32mm x 0.25µm BP1	054059
		15m x 0.25mm x 0.25µm BP5	054182
		15m x 0.25mm x 0.25µm BPX5	054100
D5480	Motor Oil Volatility by GC	12m x 0.53mm x 0.15µm HT5	054657
D5501	Determination of Ethanol Content of Denatured Fuel Ethanol by GC	100m x 0.25mm x 0.5µm BP1	054818
D5580	Determination of Benzene, Toluene, Ethylbenzene, p/m-Xylene, o-Xylene, C9 and Heavier Aromatics in Finished Gasoline by GC	30m x 0.53mm x 5.0µm BP1	054806
D5599	Determination of Oxygenates in Gasoline by GC and Oxygen Selective Flame Ionization Detection	60m x 0.25mm x 1.0µm BP1	054815
D5623	Sulfur Compounds in Light Petroleum Liquids by Gas Chromatography and Sulfur Selective Detection	30m x 0.32mm x 4.0µm BP1	054077
D5713	Standard Test Method for Analysis of High Purity Benzene for Cyclohexane Feedstock by Capillary GC	60m x 0.25mm x 0.5µm BP1	054812
D5739	Standard Practice for Oil Spill Source	30m x 0.25mm x 0.25µm BPX5	054101



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	Identification by GC and Positive Ion Electron Impact Low Resolution Mass Spectrometry		
D5769	Determination of Benzene, Toluene and Total Aromatics in Finished Gasolines by GC/MS	60m x 0.32mm x 5.0µm BP1 (cool on col)	054085
		60m x 0.25mm x 1.0µm BP1 (Splitter)	054815
		60m x 0.32mm x 1.0µm BP1 (Splitter)	054810
D5790	Standard Test Method for Measurement of Purgeable Organic Compounds in Water by Capillary Column GC/MS	60m x 0.25mm x 1.4µm BP624	054838
D5812	Standard Test Method for Determination of Organochlorine Pesticides in Water by Capillary Column GC	30m x 0.25mm x 0.25µm BPX5	054101
		30m x 0.25mm x 0.25µm BP10(1701)	054256
		30m x 0.25mm x 0.25µm BPX50	054751
D5917	Standard Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by GC and External Calibration	60m x 0.32mm x 0.25µm SolGel-WAX	054789
D5974	Standard Test Methods for Fatty and Rosin Acids in Tall Oil Fraction Products by Capillary GC	60m x 0.25mm x 0.25µm BPX70	054623
D5986	Determination of Oxygenates, Benzene, Toluene, C8-C12 Aromatics and Total Aromatics in Finished Gasoline by GC/FTIR	60m x 0.53mm x 5.0µm BP1	054807
D6160	Standard Test Method for Determination of PCBs in Waste Materials by GC	30m x 0.25mm x 0.25µm BPX5	054101
D6352	Boiling Range Distribution of Petroleum Fractions by GC	10m x 0.53mm x 0.9µm BPX1	054801
		5m x 0.53mm x 0.1µm BPX1*	054800
		5m x 0.53mm x 0.17µm BPX1*	054782
D6417	Estimation of Engine Oil Volatility by Capillary GC	10m x 0.53mm x 0.9µm BPX1	054801
D6729	Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100 Meter Capillary High Resolution Gas Chromatography	100m x 0.25mm x 0.5 µm BP1	054818
D6730	Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100 Meter Capillary (with Precolumn) High Resolution Gas Chromatography	100m x 0.25mm x 0.5 µm BP1	054818
		30m x 0.25mm x 1.0µm BP5	054203
		15m x 0.25mm x 1.0µm BPX5	054121
E202	Standard Test Methods for Analysis of Ethylene Glycols and Propylene Glycols	30m x 0.53mm x 3.0µm BP624	054836
E475	Standard Test Method for Assay of Di-tert-Butyl Peroxide Using GC	30m x 0.53mm x 5.0µm BP5	054196
E1616	Standard Test for Analysis of Acetic Anhydride	50m x 0.32mm x 0.50µm BP1	054066



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	Using GC		
E1863	Standard Test Method for Analysis of Acrylonitrile by GC	60m x 0.32mm x 1.0 μ m BP20(Wax)	054445

Future Methods- Under Review

	Boiling Range Distribution of Non-Fully Eluting Petroleum Fractions by GC	10m x 0.53mm x 0.9 μ m BPX1	054801
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