

ASTM Methods

ASTM Designation	Testing Method	Method Title	GS-Tek Column Recommendations	P/N
D 1945	GC	Standard test method for the analysis of natural gas	GsBP-PLOT MoleSieve, 15m x 0.53mm x 50um GsBP-PLOT Q, 15m x 0.53mm x 30um	8453-1550 8653-1530
D 1946	GC	Standard test method for the analysis of reformed gas	GsBP-PLOT MoleSieve, 15m x 0.53mm x 50um GsBP-PLOT Q, 15m x 0.53mm x 30um	8453-1550 8653-1530
D 1983	GLC of methyl ether	Standard test method for the analysis of fatty acid compositions	GsBP-InoWax, 30m x 0.25mm x 0.25um	2025-3002
D 2163	GC	Standard test method for the analysis of liquified petroleum gases and propene concentration	GsBP-PLOT Al2O3 KCl, 30m x 0.53mm GsBP-PLOT Al2O3 Na2SO4, 30m x 0.53mm	8153-3015 8253-3015
D 2268	Capillary GC	Standard test method for the analysis of high purity n-heptane and iso-octane	GsBP-1, 60m x 0.25mm x 0.50um	0125-6005
D 2306	GC	Standard test method for C8 aromatic hydrocarbons	GsBP-InoWax, 60m x 0.25mm x 0.25um	2025-6002
D 2426	GC	Standard test method for the butadiene dimer and styrene in butadiene concentration	GsBP-1, 30m x 0.53mm x 5.0um	0153-3050
D 2427	GC	Standard test method for determination of C2 through C5 hydrocarbons in gasoline	GsBP-1, 30m x 0.53mm x 5.0um GsBP-PLOT Al2O3 M, 30m x 0.53mm	0153-3050 8353-3015
D 2504	GC	Standard test method for non-condensable gases in C2 and for lighter hydrocarbon products	GsBP-PLOT MoleSieve, 30m x 0.53mm x 50um	8453-3050
D 2505	GC	Standard test method for other hydrocarbons and carbon dioxide in high-purity ethylene	GsBP-PLOT GasPro, 60m x 0.32mm	8532-6005
D 2593	GC	Standard test method for butadiene purity and hydrocarbon impurities	GsBP-PLOT Al2O3 M, 30m x 0.53mm	8353-3015
D 2712	GC	Standard test method for hydrocarbon traces in concentrated propylene	GsBP-PLOT Al2O3 M, 50m x 0.53mm	8353-5015
D 2804	GC	Standard test method for the purity of methyl ethyl ketone	GsBP-InoWax, 30m x 0.53mm x 1.0um	2053-3010
Extended D 2887	GC	Standard test method for analysis of the boiling range distribution of petroleum fractions to C60	GsBP-1, 10m x 0.53mm x 0.88um GsBP-1, 5m x 0.53mm x 0.88um	0153-1008 0153-0508
D 2908	Aqueous-injection GC	Standard practice for measuring volatile organic matter in water	Contact GS-Tek for recommended VOC columns	
D 3054	GC	Standard test method for analysis of cyclohexane	GsBP-1, 60m x 0.32mm x 0.50um	0132-6005
D 3257	GC	Standard test method for the analysis of aromatics in mineral spirits	GsBP-624, 30m x 0.53mm x 3.0um	6253-3030
D 3329	GC	Standard test method for the purity of methyl isobutyl ketone	GsBP-InoWax, 30m x 0.53mm x 1.0um GsBP-624, 30m x 0.53mm x 3.0um	2053-3010 6253-3030
D 3432	GC	Standard test method for the analysis of unreacted toluene diisocyanates in urethane prepolymers and coating solutions	GsBP-1MS, 30m x 0.32mm x 1.00um	1132-3010
D 3447	GC	Standard test method for the purity of halogenated organic solvents	GsBP-624, 30m x 0.53mm x 3.0um	6253-3030
D 3534	GC	Standard test method for the analysis of PCB's in water	GsBP-1MS, 30m x 0.32mm x 1.00um	1132-3010
D 3545	GC	Standard test method for the analysis of alcohol content and the purity of acetate esters	GsBP-624, 30m x 0.53mm x 3.0um	6253-3030
D 3687	The activated charcoal tube adsorption method	Standard practice for the analysis of collected organic vapors	GsBP-InoWax, 30m x 0.53mm x 1.0um	2053-3010
D 3695	Direct aqueous injection GC	Standard test method for the analysis of volatile alcohols in water	GsBP-InoWax, 30m x 0.53mm x 1.0um	2053-3010
D 3760	GC	Standard test method for the analysis of isopropylbenzene (Cumene)	GsBP-InoWax, 60m x 0.32mm x 0.25um (Column A) GsBP-1, 50m x 0.32mm x 0.52um (ColumnB)	2032-6002 0132-5005
D 3797	GC	Standard test method for the analysis of o-xylene	GsBP-InoWax, 60m x 0.32mm x 0.50um	2032-6005

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D 3798	GC	Standard test method for the analysis of p-xylene	GsBP-InoWax, 60m x 0.32mm x 0.50um	2032-6005
D 3871	Headspace sampling	Standard test method for the analysis of purgeable organic compounds in water	GsBP-624, 30m x 0.53mm x 3.0um	6253-3030
D 3893	GC	Standard test method for the purity of methyl amyl ketone and methyl isoamyl ketone	GsBP-624, 30m x 0.53mm x 3.0um	6253-3030
D 3973		Standard test method for the analysis of hydrocarbons with low molecular weights in water	GsBP-1, 30m x 0.53mm x 2.65um	0153-3026
D 4415		Standard test method for the determination of dimers in acrylic acid	GsBP-FFAP, 30m x 0.32mm x 0.25um	2132-3002
D 4424	GC	Standard test method for butylene analyses	GsBP-PLOT Al2O3 "S", 50m x 0.53mm	8253-5015
D 4443	Headspace GC	Standard test method for the residual vinyl chloride monomer content in PPB in vinyl chloride homo- and co-polymers	GsBP-1, 30m x 0.53mm x 2.65um	0153-3026
D 4864	GC	Standard test method for the determination of traces of methanol in propylene concentrates	GsBP-InoWax, 30m x 0.53mm x 1.0um GsBP-PLOT Q, 30m x 0.53mm x 30um	2053-3010 8653-3030
D 4947		Standard test method for the analysis of chlordane and heptachlor residues in indoor air	GsBP-5, 30m x 0.53mm x 1.5um	0553-3015
D 4961	GC	Standard test method for the analysis of major organic impurities in phenol produced by the cumene process	GsBP-PLOT Q, 15m x 0.53mm x 30um (Method B)	8653-1530
D 4983	Direct aqueous injection GC	Standard test method for the analysis of cyclohexylamine, morpholine, and diethylaminoethanol in water and condensed steam	GsBP-5MS, 30m x 0.32mm x 1.00um	1532-3010
D 5008	GC	Standard test method for ethyl methyl pentonal content and the purity value of 2-ethylhexanol	GsBP-1, 15m x 0.53mm x 5.0um GsBP-InoWax, 30m x 0.32mm x 0.25um	0153-1550 2032-3002
D 5060	GC	Standard test method for determining the impurities in high-purity ethylbenzene	GsBP-InoWax, 60m x 0.32mm x 0.5um	2032-6005
D 5075	GC	Standard test method for the analysis of nicotine in indoor air	GsBP-5, 30m x 0.53mm x 1.5um GsBP-5, 30m x 0.32mm x 1.0um	0553-3015 0532-3010
D 5135	Capillary GC	Standard test method for the analysis of sryreme	GsBP-InoWax, 60m x 0.32mm x 0.5um	2032-6005
D 5303	GC	Standard test method for the analysis of carbonyl sulfide in propylene	GsBP-PLOT GasPro, 30m x 0.32mm	8532-3005
D 5307	GC	Standard test method the determination of the boiling range distribution of crude petroleum	GsBP-1, 7.5m x 0.53mm x 5.0um	0153-0750
D 5310	Capillary GC	Standard test method for the analysis of tar acid composition	GsBP-5MS, 30m x 0.25mm x 0.25um	1525-3002
D 5316	Microextraction and GC	Standard test method for 1, 2-dibromoethane and 1,2-dibromo-3-chloropropane in water	GsBP-1MS, 30m x 0.32mm x 1.00um (Column B) GsBP-PLOT Q, 30m x 0.53mm x 30um GsBP-5MS, 30m x 0.25mm x 0.25um (Column 1)	1132-3010 8653-3030
D 5317	GC with an electron capture detector	Standard test method for the determination of chlorinated organic acid compounds in water	GsBP-1701, 30m x 0.25mm x 0.25um (Column 2) GsBP-35MS, 30m x 0.25mm x 0.25um	1525-3002 6125-3002 3525-3002
D 5320		Standard test method for the determination of 1,1-trichloroethane and methylene chloride in stabilized trichloroethylene and tetrachloroethylene	GsBP-1, 30m x 0.53mm x 3.0um GsBP-624, 30m x 0.32mm x 1.8um	0153-3030 6232-3018
D 5441	GC	Standard test method for the analysis of methyl tert-butyl ether (MTBE)	GsBP-PLOT Q, 30m x 0.53mm	8653-3030
D 5442	GC	Standard test method for the analysis of petroleum waxes	GsBP-5, 15m x 0.25mm x 0.25um	0525-1502

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D 5475	GC with a nitrogen phosphorus detector	Standard test method for the analysis of nitrogen and phosphorus-containing pesticides in water	GsBP-5MS, 30m x 0.25mm x 0.25um	1525-3002
			GsBP-35MS, 30m x 0.25mm x 0.25um	3525-3002
			GsBP-1701, 30m x 0.25mm x 0.25um	6125-3002
D 5501	GC	Standard test method for the determination of ethanol content in denatured fuel ethanol	GsBP-1, 100m x 0.25mm x 0.50um	0125-A005
D 5507	Capillary column/ multi-dimensional GC	Standard test method for the determination of trace organic impurities in monomer grade vinyl chloride	GsBP-PLOT Q, 15m x 0.53mm	8653-1530
			GsBP-PLOT U, 30m x 0.53mm	8753-3020
D 5508	Headspace-capillary GC	Standard test method for the determination of residual acrylonitrile monomers in styrene-acrylonitrile co-polymer resins and nitrile-butadiene rubbers	GsBP-PLOT Q, 30m x 0.53mm	8653-3030
D 5580	GC	Standard test method for the determination of benzene, toluene, ethylbenzene, p/ m-xylene, C9, and heavier aromatics, and total aromatics in finished gasoline	GsBP-1, 30m x 0.53 mm x 5.0um	0153-3050
D 5599	GC and oxygen selective flame ionization detection	Standard test method for the determination of oxygenates in gasoline	GsBP-1, 60m x 0.25mm x 1.0um	0125-6010
D 5623	GC and sulfur selective detection	Standard test method for analysis of sulfur compounds in light petroleum liquids	GsBP-1, 30m x 0.32mm x 4.0um	0132-3040
D 5739	GC and positive ion electron impact low resolution mass spectrometry	Standard practice for oil spill source identification	GsBP-5, 30m x 0.25mm x 0.25um	0525-3002
D 5769	GC/MS	Standard test method for the determination of benzene, toluene, and total aromatics in finished gasoline	GsBP-1, 60m x 0.25mm x 1.0um	0125-6010
D 5790	Capillary column GC/ MS	Standard practice for the measurement of purgeable organic compounds in water		
D 5812	Capillary column GC	Standard test method the determination of organochlorine pesticides in water	GsBP-5MS, 30m x 0.25mm x 0.25um	1525-3002
			GsBP-35MS, 30m x 0.25mm x 0.25um	3525-3002
			GsBP-1701, 30m x 0.25mm x 0.25um	6125-3002
D 5917	GC and external calibration	Standard test method for the analysis of trace impurities in monocyclic aromatic hydrocarbons	GsBP-InoWax, 60m x 0.32mm x 0.25um	2032-6002
D 5986	GC/FTIR	Standard test method for the determination of oxygenates benzene, toluene, C8-C12 aromatics, and total aromatics in finished gasoline	GsBP-1, 60m x 0.53mm x 5.0um	0153-6050
D 6144	Capillary GC	Standard test method for the analysis of trace impurities in alpha-methylstyrene	GsBP-1, 60m x 0.25mm x 1.0um	0125-6010
D 6159	GC	Standard test method for the determination of hydrocarbon impurities in ethylene	GsBP-PLOT Al2O3/KCl, 50m x 0.53mm (Column 1)	8153-5015
			GsBP-PLOT Al2O3 M, 50m x 0.53mm (Column 1)	8353-5015
			GsBP-1, 30m x 0.53mm x 5.0um (Column 2)	0153-3050
D 6160	GC	Standard test method for the determination of PCB's in waste materials	GsBP-5MS, 30m x 0.32mm x 0.25um	1532-3002
D 2360	GC	Standard test method for the analysis of trace impurities in monocyclic aromatic hydrocarbons	GsBP-InoWax, 60m x 0.32mm x 0.25um	2032-6002
E 1616	GC	Standard test method for the analysis of acetic anhydride	GsBP-1, 50m x 0.32mm x 0.52um	0132-5005
E 1863	GC	Standard test method for the analysis of acrylonitrile	GsBP-InoWax, 30m x 0.32mm x 1.0um	2032-3010
			GsBP-PLOT Q, 30m x 0.32mm x 15.0um	8632-3015
E 202		Standard test method for the analysis of ethylene glycols and propylene glycols	GsBP-624, 30m x 0.53mm x 3.0um	6253-3030
E 475	GC	Standard test method for the assay of di-tert-butyl peroxide	GsBP-5, 30m x 0.53mm x 5.0um	0553-3050