

Choosing Columns

Choosing columns by ASTM

ASTM Method			
Method	Application	Vertical® Recommend	Page
D 1945	Natural gas	30 m x 0.53 mm MolSieve, df = 50 µm	180
		15 m x 0.53 mm Q, df = 40 µm	181
D 1946	Reformed gas	30 m x 0.53 mm MolSieve, df = 50 µm	180
D 1983	FAME analysis	30 m x 0.25 mm Silar90, df = 0.2 µm	179
D 2163	Liquified petroleum gases and propylene concentrations	50 m x 0.53 mm Alumina, df = 10 µm	182
D 2245	Oils and oil acids in solvent-reducible paints	30 m x 0.25 mm Silar90, df = 0.2 µm	179
D 2306	Xylene isomers	60 m x 0.32 mm WAX, df = 0.5 µm	175
D 2426	Butadiene and styrene in butadiene concentrates	30 m x 0.53 mm 1, df = 1.5 µm	148
D 2427	C2-C5 hydrocarbons in gasolines	50 m x 0.53 mm Alumina, df = 10 µm	182
D 2456	Polyhydric alcohols in alkyd resins	30 m x 0.53 mm WAX, df = 1.0 µm	175
D 2504	Non-condensable gases in C1-C3 hydrocarbons	30 m x 0.53 mm MolSieve, df = 50 µm	180
D 2580	Phenols in water	25 m x 0.32 mm 5ms, df = 0.5 µm	157
		25 m x 0.53 mm AqWAX, df = 1.0 µm	177
D 2593	Butadiene purity and hydrocarbon impurity	50 m x 0.53 mm Alumina, df = 10 µm	182
D 2600	Aromatic traces in light saturated hydrocarbons	25 m x 0.32 mm WAX, df = 1.2 µm	174
D 2743	Oil and oil acids	30 m x 0.25 mm Silar90, df = 0.2 µm	179
D 2800	FAME analysis	50 m x 0.25 mm Silar90, df = 0.2 µm	179
D 2804	Purity of methyl ethyl ketone	30 m x 0.32 mm WAX, df = 0.5 µm	175
		30 m x 0.53 mm WAX, df = 1.0 µm	175
D 2908	Volatile organics in water	30 m x 0.32 mm 624, df = 1.8 µm	169
		30 m x 0.32 mm WAX, df = 0.5 µm	175
		30 m x 0.53 mm WAX, df = 1.0 µm	175
D 2998	Polyhydric alcohols in alkyd resins	30 m x 0.32 mm 1, df = 1.0 µm	148
D 2999	Monopentaerythritol in commercial pentaerythritol	30 m x 0.53 mm 1, df = 1.5 µm	148
D 3009	Composition of turpentine	30 m x 0.32 mm WAX, df = 0.5 µm	175
		30 m x 0.53 mm WAX, df = 1.0 µm	175
D 3086	Organochlorine pesticides in water	50 m x 0.25 mm 5, df = 0.12 µm	164
D 3168	Polymers in emulsion paints	30 m x 0.32 mm 1, df = 1.0 µm	148
		30 m x 0.53 mm 1, df = 1.5 µm	148
D 3271	Solvent analysis in paints	30 m x 0.53 mm Q, df = 20 µm	181
		30 m x 0.53 mm WAX, df = 1.0 µm	175
D 3304	PCBs in environmental materials	50 m x 0.25 mm 5, df = 0.1 µm	154
D 3328	Comparison of waterborne petroleum oils	30 m x 0.32 mm 1, df = 3.0 µm	148
		30 m x 0.53 mm 1, df = 3.0 µm	148
D 3329	Purity of methyl isobutyl ketone	60 m x 0.53 mm WAX, df = 1.0 µm	175
D 3416	Total hydrocarbons, methane, and CO in air	30 m x 0.53 mm Q, df = 20 µm	181
		30 m x 0.53 mm MolSieve, df = 50 µm	180
D 3432	Toluene diisocyanates in urethane prepolymers	30 m x 0.32 mm 1, df = 1.0 µm	148
		30 m x 0.53 mm 1, df = 1.5 µm	148
D 3447	Purity of trichlorotrifluoroethane (CFC-113)	50 m x 0.53 mm 1, df = 5.0 µm	148
D 3452	Identification of rubber	30 m x 0.53 mm 1, df = 1.5 µm	148
D 3457	FAME analysis	30 m x 0.25 mm Silar90, df = 0.2 µm	179
D 3465	Purity of monomeric plasticizers	25 m x 0.32 mm 1, df = 0.5 µm	148
		30 m x 0.53 mm 1, df = 1.5 µm	148

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D 3534	PCBs in water	50 m x 0.25 mm 5, df = 0.25 µm	154
D 3606	Benzene and toluene in gasoline	15 m x 0.25 mm 1ms, df = 0.1 µm	151
D 3687	Volatile organic compounds	30 m x 0.32 mm WAX, df = 0.5 µm	175
		30 m x 0.53 mm WAX, df = 1.0 µm	175
D 3725	Fatty acids in drying oils	25 m x 0.53 mm AqWAX, df = 1.0 µm	177
D 3760	Analysis of cumene	50 m x 0.53 mm WAX	175
D 3797	Analysis of o-xylene	50 m x 0.53 mm WAX	175
D 3798	Analysis of p-xylene impurities	50 m x 0.53 mm WAX	175
D 3876	Methoxyl and hydroxypropyl substitution in cellulose ether products	30 m x 0.32 mm 1, df = 1.0 µm	148
		30 m x 0.53 mm 1, df = 1.5 µm	148
D 3962	Impurities in styrene	25 m x 0.53 mm AqWAX, df = 1.0 µm	177
D 4059	PCBs in insulating liquids	50 m x 0.25 mm 5, df = 0.25 µm	154
D 4275	Butylated hydroxy toluene in ethylene and ethylenevinylacetate polymeres	30 m x 0.32 mm 1, df = 3.0 µm	148
		30 m x 0.53 mm 1, df = 3.0 µm	148
D 4367	Benzene in hydrocarbon solvent	15 m x 0.25 mm 1ms, df = 0.1 µm	151
D 4384	Acrylonitrile monomer (residual)	25 m x 0.53 mm Q, df = 20 µm	181
D 4420	Aromatics in gasoline	15 m x 0.25 mm 1ms, df = 0.1 µm	151
D 4424	Butylene analysis	30 m x 0.53 mm Alumina, df = 10 µm	182
D 4735	Thiophene impurities in benzene	25 m x 0.53 mm AqWAX, df = 1.0 µm	177
D 4768	Phenol and cresol inhibitors in insulating oils	25 m x 0.53 mm AqWAX, df = 1.0 µm	177
D 5060	Impurities in ethylbenzene	60 m x 0.32 mm WAX, df = 0.5 µm	175
D 5135	Analysis of styrene	60 m x 0.32 mm WAX, df = 0.5 µm	175
D 5580	Aromatics in finished gasoline	15 m x 0.25 mm 1ms	151
E 0202	Analysis of glycols	25 m x 0.25 mm WAX, df = 0.2 µm	174
E 1100	Analysis of denaturated ethanol	25 m x 0.53 mm WAX, df = 0.5 µm	174

